



Maharaja Institute of Technology Mysore

Approved by AICTE, New Delhi,
Affiliated to Visvesvaraya Technological University, Belagavi
Recognized by Government of Karnataka

Ref: MITM/Principal/2022/163

Dated: 21.03.2022

DECLARATION

The List of Courses Offered in the College across the various programs during the Assessment period 2015-16 to 2019-20 are as follows. The Institute hereby submits the error that has occurred and requests the NAAC through the DVV to accept the corrections and oblige.

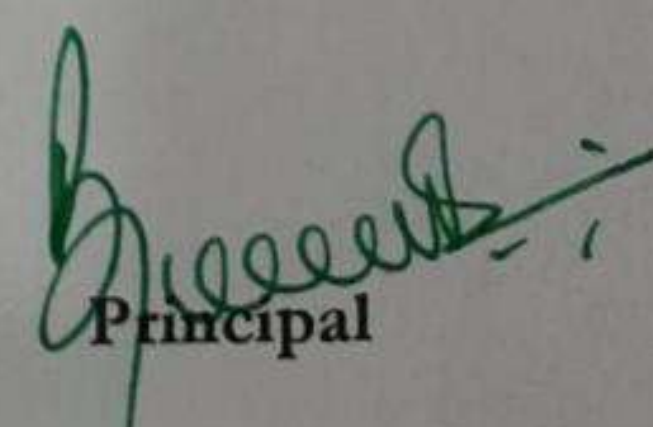
S/L	Program Name	Program Code	Academic Year	No. of Courses Offered
1	B.E. in Computer Science and Engineering	B.E./CSE	2019-20	68
			2018-19	64
			2017-18	61
			2016-17	63
			2015-16	63
2	B.E. in Civil Engineering	B.E./CV	2019-20	70
			2018-19	70
			2017-18	66
			2016-17	67
			2015-16	67
3	B.E. in Electronics and Communication Engineering	B.E./ECE	2019-20	63
			2018-19	63
			2017-18	62
			2016-17	62
			2015-16	62
4	B.E. in Information Science and Engineering	B.E./ISE	2019-20	63
			2018-19	65
			2017-18	62
			2016-17	64

Belawadi, Srirangapatna Taluk, Mandya - 571 477.

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			2015-16	64
			2019-20	73
5	B.E. in Mechanical Engineering	B.E./ME	2018-19	72
			2017-18	71
			2016-17	71
			2015-16	71
6	M.Tech in Signal Processing	M.Tech/ECE	2019-20	20
			2018-19	20
			2017-18	21
			2016-17	22
			2015-16	-
7	M.Tech in Thermal Power Engineering	M.Tech/MTP	2019-20	22
			2018-19	22
			2017-18	22
			2016-17	15
			2015-16	15
8	Master of Business Administration	MBA	2019-20	32
			2018-19	32
			2017-18	32
			2016-17	32
			2015-16	31
9	Master of Computer Applications	MCA	2019-20	45
			2018-19	45
			2017-18	42
			2016-17	41
			2015-16	41


Principal

Principal
Maharaja Institute of Technology Mysore
Belawadi, Nagvuanahalli Post
Srirangapatna Taluk
Mandya District - 571477




Maharaja Education Trust(R), Mysuru
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
(Approved by AICTE New Delhi, Recognized by the Govt. of Karnataka & Affiliated to VTU, Belagavi)





CET CODE : E158
COMED K CODE : E078



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Scan the QR code for
video tour of the Institute

Maharaja Institute of Technology Mysore
Belawadi, Srirangapatna Taluk
Mandya District - 571477

"Destroying any nation does not require the use of atomic bombs or the use of long range- missiles... it only requires lowering the quality of education and allowing cheating in the examination by the students..."

Patients die at the hands of such doctors...

Buildings collapse at the hands of such engineers...

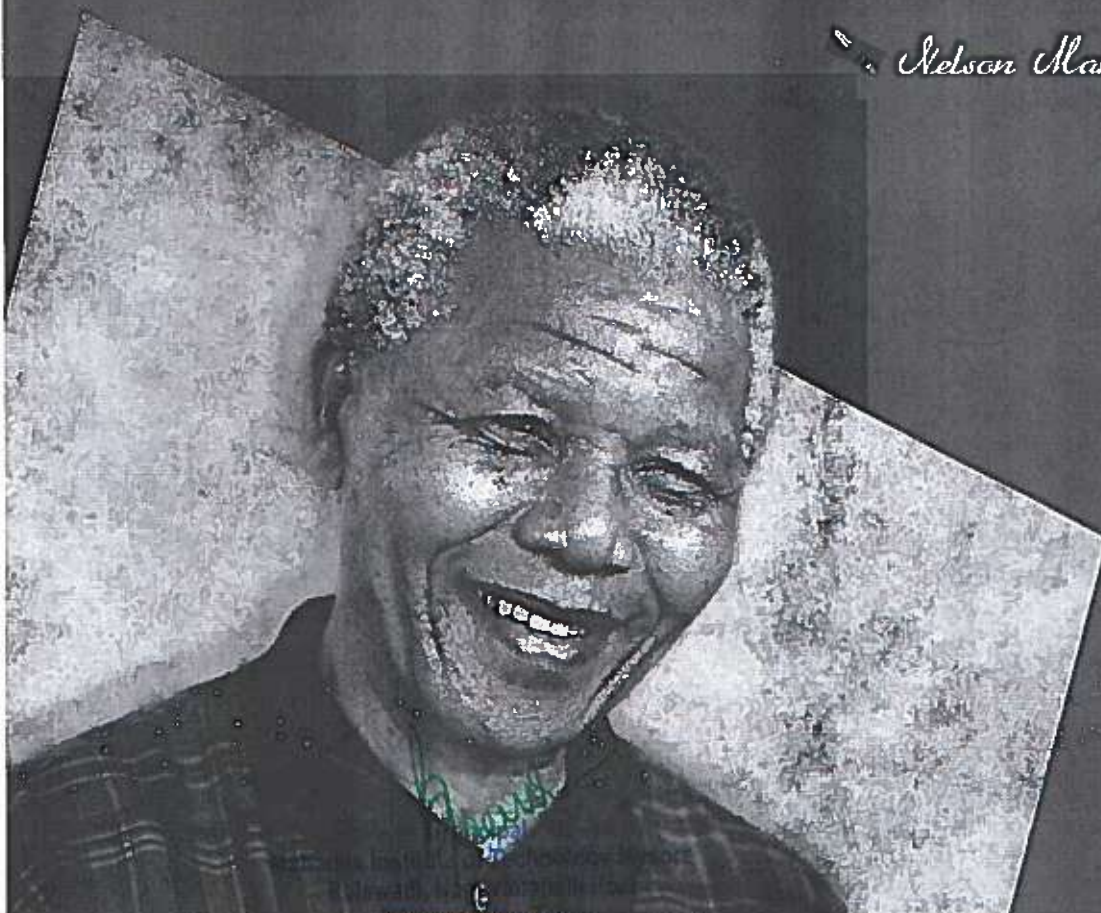
Money is lost at the hands of such economists & accountants...

Humanity dies at the hands of such religious scholars...

Justice is lost at the hands of such judges...

"The collapse of education is the collapse of the nation."

Nelson Mandela



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MAHARAJA EDUCATION TRUST(R), MYSURU

01

Maharaja Education Trust(R) was established in the year 2005, not just as a venture, but to serve the society at large via educational institutions that are driven by the motivation of providing a well-balanced learning environment for educating young minds. The trust is governed by the board that comprises learned, and well-accomplished academicians of repute. The members of the board themselves, are the alumni of premier institutes who have all served at the highest possible positions within the broad education spectrum of the country.

The Trust, built as it is by the eminent academicians, believes in building resources in the form of highly accomplished and learned faculty who are committed, highly knowledgeable, and have an aptitude for teaching. The trust realizes that the effective learning process can only happen in the right environment and readily invests in upgrading facilities and infrastructure to the modern-day standards. Thrust on the widening of the knowledge spectrum of the institute as a whole lies in an individual's contribution and the trust emphasizes collaborative and far-reaching research attitude at all its institutes. The trust strives to inculcate quality in every stage of learning with all its resources progressing towards its vision.

FOUNDERS



Dr. Murali S
President



Dr. Vasudev T
Secretary



Dr. D S Guru
Treasurer



Dr. Chethan H K
Joint Secretary



Dr. Naresh Kumar B G
Trustee



Dr. Y T Krishnegowda
Trustee



Dr. Ananth R Koppa
Trustee

► *President's Message*

I am very happy that you have chosen Maharaja Institute of Technology Mysore (MITM) to enhance your education and pursue your future career and goals. Our faculty and staff are dedicated to assisting you with your educational goals, career aspirations and your overall college experience here at MITM. We are proud to offer a learning experience in the beautiful nature enriched campus surrounded by lush green fields. I am confident that you will take advantage of the many exceptional opportunities our Institute provides more specifically, quality academics and right placements.



Our mission at MITM is simply your success. Whatever your goals may be, we are here to provide a high-quality education that supports your vision. We strive to develop relationships to make your college experience that much more meaningful and successful for you. When India is marching towards implementing National Education Policy 2020, we will be the front runners to embrace and adapt and you will experience the same.

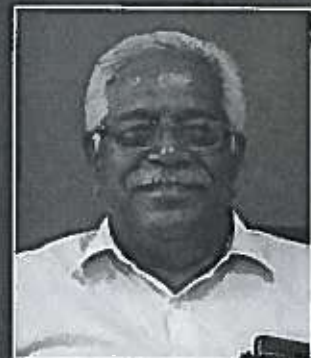
Maharaja Education Trust (MET) considers it an honor that you will be joining soon and becoming a member of the MIT family. If I can ever be of assistance to you at MITM, please let me know.

Dr. Murali S

President, Maharaja Education Trust(R), Mysuru

► *Secretary's Message*

Maharaja Institute of Technology Mysore is a wonderful choice for those opting for higher education. It will be a smooth journey while learning technical skills, soft skills, communication skills, and life skills. The student-friendly environment on the campus will boost your learning ability to the maximum. The institute is equipped with the state of art laboratories, classrooms, and teaching aids. Each department in the Institute has adequate mettle in terms of experienced teaching fraternity dedicating their services 24x7. The institute is unique in facilitating safe transportation covering the majority of taluks in 3 districts.



Our 15-year young institute has a notable history of placements, that assists in placing you in reputed organizations with attractive pay packages. I wish that the transformation that MIT Mysore provides you bring prosperity in both your educational growth and future career. Once again I wish you the best and good luck.

Dr. Vasudev T

Secretary, Maharaja Education Trust(R), Mysuru

The Institute (established in the year 2007) is approved by AICTE, New Delhi, and Government of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi, and is one of the premier institutions in the heritage city, located just about 3 km from the Bengaluru-Mysuru highway. The Institute has garnered greater acclamation by the community as being learner-centric institute and has been producing competent professionals over the years. The young minds that pursue knowledge are facilitated with a greater sense of familiarity by a highly qualified, trained, and competent teaching fraternity that also comprises of the founder trustees being the acclaimed faculty they are. In addition to the basic essential infrastructure, the Institute is well furnished for a digital reach out in terms of online classes and the like. Safety measures installed at the institute ensure peaceful atmosphere at the campus.

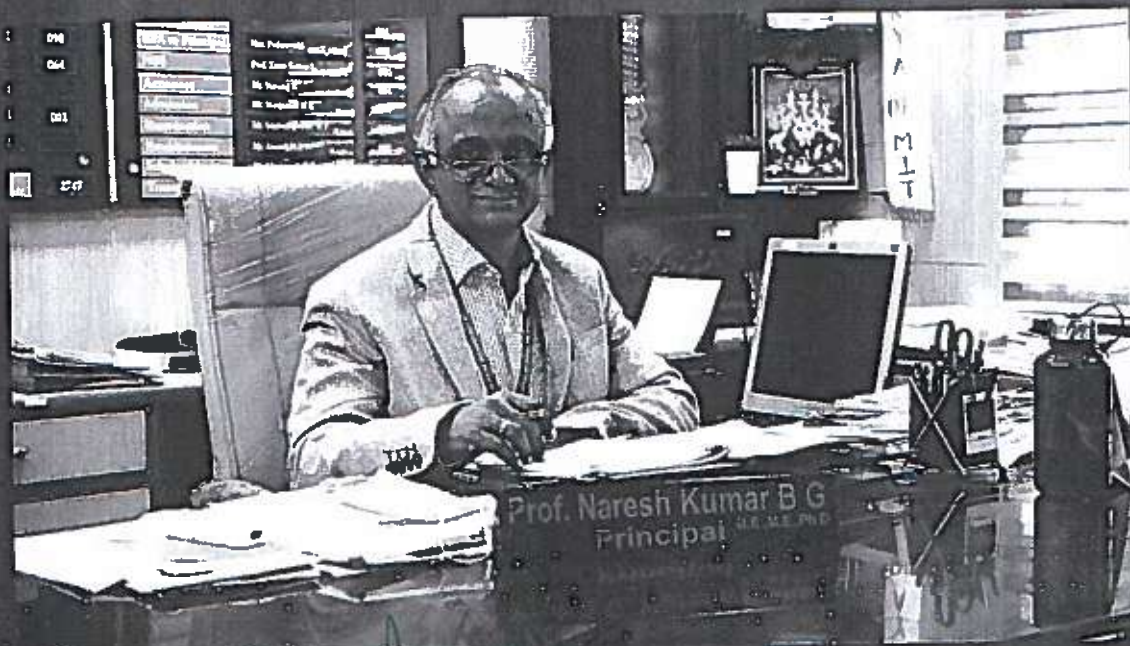


Principal's Message

I welcome you all to the Maharaja Institute of Technology Mysore. Education in the advanced technological world does not end with the classroom as it is more substantial than mere acquisition of knowledge but includes inculcating skills and building professional character and enhancing the concrete potential that fosters future leaders in their chosen area. No efforts are spared to make the learning experiences of questing minds more meaningful and relevant to the socio-economic needs of the times and to empower the students with the apt skill and tools that are essential in facing challenges on societal fronts, as well as in enjoying their experience of learning. I hope that the time of your study in this Institution will prove to be the most fruitful and glorious part of your educational career.

Dr. Nareshkumar B G

Principal, Maharaja Institute of Technology Mysore



VISION

To be recognized as a premier technical and management institution promoting extensive education fostering research, innovation, and entrepreneurial attitude.

MISSION

1. To empower students with indispensable knowledge through dedicated teaching and collaborative learning.
2. To advance extensive research in science, engineering, and management disciplines.
3. To facilitate entrepreneurial skills through effective institute-industry collaboration and interaction with alumni.
4. To instill the need to uphold ethics in every aspect.
5. To mould holistic individuals capable of contributing to the advancement of society.



Core Values

Encourage learning and leadership, Discipline, Diligence and Perseverance, Integrity with Accountability and Ethics, Social Responsibility for the furtherance of society, Cultural Affinity.



The Office Management

The Ministerial Section is the 'Chariot' riding comfortably on which all departments and sections in the college function conveniently to reach their goals. Headed by Prof. Aniruddha A M and diligently served by various section heads and office personnel, this vibrant section of the college has under it, accounts, establishment, transportation, hostels, examination, admission, system administration, gardening, and housekeeping wings. If the academic section is the engine of the vehicle, then the ministerial section is its wheels. The ministerial section at MIT Mysore strives hard to deliver services to the fullest level of the stakeholder's satisfaction. A well-set procedure for financial flow, thorough maintenance of establishment with unparalleled bus services covering 58 routes in and around Mysuru district, state-of-the-art management of all university examinations, smooth admission procedure, and maintenance of cleanliness by the housekeeping team, and a dedicated gardening team makes the ministerial section an integral part of the operational group at the college. Wholehearted service orientation is the hallmark of the ministerial section.



Campus Life at MIT Mysore – A life to remember

The very thought of a professional institute brings with it the potential of beginning a journey that lasts for a lifetime. For all of us, it is the campus experience that we treasure, including opportunities to learn and not just academics but all facets of life, through which we end up picking up lessons. We present you with an opportunity to learn and live in a serene lush green environment. MIT Mysore provides a tranquil environment to aid in effective learning. The eco-efficient campus, rooftop 100 MW solar power systems, rainwater harvesting systems, etc., add to the grandeur in deeper learning. The prospect of learning at MIT Mysore provides twin upshots of living in the heritage city as well as developing his or her vision and outlook with a broader perspective. MIT Mysore campus is home to a multi-cultural, multi-ethnic, learning community situated just at the very border of Mandya and Mysuru districts, around 3kms from the ring road junction and around 7 km from the Mysore city center.

The Approach

Revolutionizing Education is what the institute believes in and it is evident from the expansion of the institute in all spectra that have culminated in inter-national MOUs with the likes of universities such as Alborg University, Denmark.

An MITian is personified by

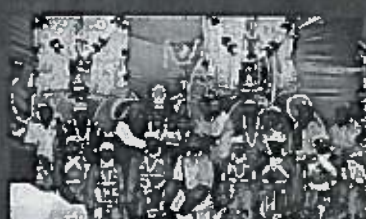
- Learning without prejudice
- Conspires to eliminate bias and inspires team-man-ship.
- Willing to adopt global and not local perception



► Teaching Leverage

In all the program of studies offered at the institute, High-leverage practices have been adopted. These high-leverage practices are used across subject areas, grade levels, and contexts. They are "high-leverage" not only because they matter to student learning but because they are basic to advancing skills in teaching. Also, the following are the key aspects of the institute that add to the teaching leverage.

- Excellent and committed faculty
- Counseling and guidance for improving performance
- Placement - Comprehensive training and exposure to students with placement guarantees
- Guest lectures by seasoned experts from the corporate world and leading academic circles
- Student advisory services, club, and associations
- International student body and Alumni network
- International Collaborations and Industry Institute Interface
- Rich Library Resources
- Enriching Internships and Projects
- Scholarship for deserving students



Physical Sciences are the foundation for all Engineering disciplines; therefore, a sound and application-oriented understanding of Physics is a prerequisite for studying any branch of Engineering. It is not confined to a particular discipline of Engineering, but a thread is woven through the whole technological domain. Engineering Physics provides a thorough grounding in Modern Physics, Quantum Physics, Optics, Material Science and Nanotechnology. The Department has a well-established state of art undergraduate laboratory to accommodate thirty students in a batch. In addition to the Engineering Physics course to Bachelor of Engineering (BE) students of all Engineering branches, the Department also offers the PhD program in Physics.

VISION

Empower students with the knowledge and ability to solve problems of Physics in the field of Technical Education and Research.

MISSION

1. To provide students with strong foundation in Physics through comprehensive learning environment.
2. To endow knowledge through Research and Developmental activities.
3. To inculcate value based and socially committed professionalism in students towards a holistic development of society.



The Team

Well learned and ever meticulously functioning faculty team that is headed by Dr. Vijaylakshmi Dayal and the teams' contribution in inculcating critical thinking in young minds has been duly acknowledged by the stakeholders and the university. The faculties of the Department are competent and specialized in the field of condensed matter physics, solid-state and nuclear physics. The Department is proud to be one of the leading research departments of the institution. To date, the Department has completed three major sponsored research projects worth Rs. 65 Lakhs and a few in process. The Advanced Research Center was established in the year 2011 and further upgraded with the financial assistance sponsored research grant from DAE-BRNS, Mumbai; UGC-DAE-CSR, Indore; SERB-DST, New Delhi and MRF-MIT Mysore. The Research Center is equipped with state-of-the-art research equipment for the growth of bulk and nano-scale oxide materials. The research lab is also equipped with low-temperature electrical characterization facilities. The Department has a well-established collaboration with the National and International Advanced Research Institute for specific characterization. Currently, five Research Scholars are pursuing PhD, and one has been awarded a PhD degree.



MIT Mysore

M. S. Srinivasan
 Professor
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 Mandya District - 571477

Chemistry is the backbone of designing and understanding the nature of various engineering materials. Many advances in engineering and technology either produce a chemical demand like polymers, chemical developments for their application in powder metallurgy and alloys, preventive methods of pollution, etc. As Chemistry is taught at the undergraduate level, the department has well-equipped laboratories that enable faculty and students to employ the fundamental principles which help create innovative new technologies. True to its vision, the department functions to not only transform young people to be capable and motivated professionals but also to contribute to the overall development of the nation through their skill, research, and academic activities.

VISION

Foster technologically relevant education in Chemistry for engineering applications to bring about excellence in research and innovation.

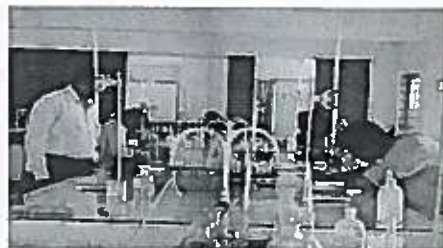
MISSION

1. To endow relevant knowledge in chemistry with intensive teaching and demonstration.
2. To disseminate greater understanding through research in chemical and related disciplines.
3. To facilitate awareness of the impact of chemical attributes on our environment.



The Team

Headed by Dr. Manju B, the well-knit department has energetic and dedicated faculty members who, apart from teaching, are actively engaged in research. The members of the department have published their research papers in National and International Journals. The research activities have taken up by the faculty in the department include areas such as Analytical Chemistry, Drug Analysis, Phytochemical investigations, Medicinal Chemistry and Nano Technology. The department extends its expertise and facilities to the local community, industries and academic institutions through services like testing and consultancy, training programs, and guest lectures, etc.



Maharaja Institute of Technology Mysore
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Mandya District - 571477

Engineering Mathematics is the art of applying mathematics to complex real-world problems. It combines mathematical theory, practical engineering, and scientific computing to address today's technological challenges. Developments in mathematical science and computers have led to improved modeling and understanding of situations in all areas of human activity including not only engineering, medicine, biology, ecology, environment, geology, oceanography but in economics and a variety of other social sciences. The Department of Mathematics aims to be a center of excellence in mathematics and has been enthusiastically engaged in teaching and research of high quality. The Department teaches courses on Mathematics to Undergraduate and Postgraduate students. It also hosts Ph.D. programs.

VISION

To promote a comprehensive, innovative and dynamic learning and research environment.

MISSION

1. To encourage students with reasoning ability, analytical skill, awareness of logic and instigate research culture in them.
2. To provide an exemplary Mathematics program that prepares students to lifelong learners and responsible citizens.



The Team

Headed by Dr. Srinivasa A H the highly qualified and widely acknowledged faculty bring in diligent functionality that are engrossed in delivering in-depth knowledge to students of the institute. Dr. A H Srinivasa is an expert for university's Edusat program and the team aptly follows in his footsteps. To add to its credit, the personnel of the department has published research papers in various reputed Journals in Advanced and emerging area of Mathematics like Fluid Mechanics and Graph theory.



MITM, aure



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Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
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 Mandya District - 571477

The strong exhortation and sensible view that is inherently extant among the technical institutes is that technical education needs to be complemented by a vital appreciation of the social values and interpersonal context of all learning. The holistic and all-round development of technical graduates into socially responsible individuals is at the very core of higher education. Established in the year 2018, the department is devoted to teaching the Constitution of India, Professional Communication, Communicative English and Kannada Language to students of the B.E. Bridge Course for NRI and rural students. The faculty members engage in teaching-learning activities, research publications, and conducting workshops for students to build social skills and broaden critical and creative competencies. A large, well furnished, bright, and well ventilated Language Laboratory equipped with 60 computers, loaded with syllabus related software and AV materials are available to the students for both guided and self-learning. The department provides classroom teaching as per the syllabus. This helps in the acquisition of LSRW (Listening, Speaking, Reading and Writing) skills much needed for the corporate culture.

VISION

Promoting the advancement of the student community as a human resource by enhancing their abilities through quality training in communication and social service

MISSION

Accomplish excellence in civil/professional services through an education in the Humanities so as to fulfill the needs of the society at large

THE TEAM

Headed by Prof. Uma Bhavani, a well learned and highly motivated personnel with passionate knowledge and expertise deliver diligent yet far reaching prowess in knowledge to the students.



FIRST YEAR ACADEMICS

First-year academics is devoted to foster the fundamental principles and understanding of science to enhance the students' basic knowledge of Engineering. Its objective is to provide value-based education to budding scientists and engineers. Besides academics during the first year aspects such as the development of students' personality, communication, and soft skills to boost them in the modern and globally competitive environment that is also given to the students. It facilitates avenues to promote Entrepreneurship among budding engineers and impart to them the concept of Corporate Social Responsibility.

Elemental Engineering Subjects: Engineering Mathematics, Physics, Chemistry, values, and fundamentals of Civil, Electrical and Electronics, Engineering Drawing, Basics of C-programming, Environmental Studies, English, and so on.

[Signature]
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MIT Mysore

B.E. in Civil Engineering / 4 years

Civil engineering is one of the core areas of the engineering world. It is fundamental for any civilization that plays a pivotal role in planning and forming infrastructural facilities for life on earth and beyond. The Bachelor Program was established in the year 2010 with an intake of 60 and subsequently increased to 120 in the year 2012, which is one of the most sought courses at the institute. The motto has been to facilitate advanced knowledge with sound fundamentals that are of paramount importance in the rapidly advancing technological world. As a result, the alumni of the department over 1000 are progressing in their career as well as contributing to the department in facilitating a better understanding of the challenges faced. Professional association with agencies such as the Institute of Engineers India (IEI), Indian Concrete Institute (ICI), Builders Association of India, Indian Geotechnical Society, etc aptly enhance the exposure for students.

VISION

To be recognized as numero uno in the field of civil engineering education, research and an impartor of enterprising skills

MISSION

1. To facilitate technical ingenuity through proficient teaching learning processes that inspires self-learning.
2. To enhance collaborative growth in research and consultancy and deliver solutions to meet the societal needs.
3. To instill students with communication and professional skills to foster industry-academia interaction that propels entrepreneurial attitude.



Program Educational Objectives

A little while after graduating, the graduates of Civil Engineering

- Will exhibit professional commitment in their career as civil engineers and acquire leadership positions.
- Will pursue higher education, research and further their competencies to adapt to technological advancements.
- Will effectively put to use various technical standards to ensure safety, serviceability and economy with optimal consumption of resources.
- Will showcase wholesomeness in the field of civil engineering either under an employer or as an entrepreneur to meet the societal needs.



MIT Mysore



► *The Team*

Headed by Dr. Ramakrishnegowda C and mentored by Dr. Naresh Kumar B G, the team of 30 personnel with specialization in all subdomains of civil engineering with four doctorates and eight on the verge of completion of their doctoral degree, the teaching fraternity brings in insightful knowledge to the table. the essence of wholesome knowledge, vital aspect in molding young minds are the strength of the department.

► *Distinctiveness / Accolades*

- Varieties of consultancy services to various public and private organizations
- Expertise of the personnel of the department are notably being acknowledged by these agencies in areas such as soil investigation, material testing, planning, analysis, design, quality assurance, stability, and diagnosis, etc.
- Several ranks at the university exams and notable achievements in curricular and co-curricular academics
- Personnel of the department are highly acknowledged at the university and governing bodies of the county.
- Consistently empowering industry-institute collaboration

► *Career Scope*

Structural Engineers | Geotechnical Engineers | Site Engineers | Construction Engineers
 Project Manager | Purchase and Quality Control Executive | Planning and Design Officer
 Building control surveyor | CAD technician | Design engineer | Estimator | Nuclear engineer
 Water engineer | Consulting civil engineer | Contracting civil engineer
 Public and private sector career | Waste management engineer



B.E in Computer Science and Engineering / 4 Years

M. Tech in Computer Science and Engineering / 2 Years

The discipline of Computer Science and Engineering is concerned with the principles and technologies that make up the entire range of computing systems. It studies internal units and various interconnections of the microprocessor and a range of subsystems that constitutes the hardware. Started in the year 2007, department offers B.E, M.Tech, M.Sc (Engg) by research and Ph.D., programs. Department aims to create global players in the field by inculcating soft-skills as well as hard-skills in students, intending to facilitate high-quality technical education to students and has been ever improving in terms of the same year on year with alumni with nearly all pursuing a progressive career and contributing back to the institute vide involvement in improving the quality of education at the Institute. Association with agencies such as IEEE (Institute of Electrical and Electronics Engineers), IE(The Institution of Engineers(India), The Association for Computing Machinery (ACM), Computer Society of India (CSI), Programmers Clubs, etc provide greater exposure to students.

VISION

To be a leading academic department offering computer science and engineering education, fulfilling industrial and societal needs effectively

MISSION

1. To enrich the technical knowledge of students in diversified areas of Computer Science and Engineering by adopting outcome based approaches.
2. To empower students to be competent professionals maintaining ethicality.
3. To facilitate the development of academia-industry collaboration.
4. To create awareness of entrepreneurship opportunities.



Program Educational Objectives

A little while after graduating, the graduates of Computer Science and Engineering will

- Be successful in solving engineering problems associated with computer science and engineering domains.
- Work collaboratively on multidisciplinary projects and acquire high levels of professionalism backed by ethics.
- Communicate effectively and exhibit leadership qualities, team spirit necessary for a successful career in either industry, research or entrepreneurship.
- Continue to learn and advance their career through participation in the activities of professional bodies, obtaining professional certification, pursue of higher education.



MITM_yaarc



COMPUTER SCIENCE LAB

► *The Team*

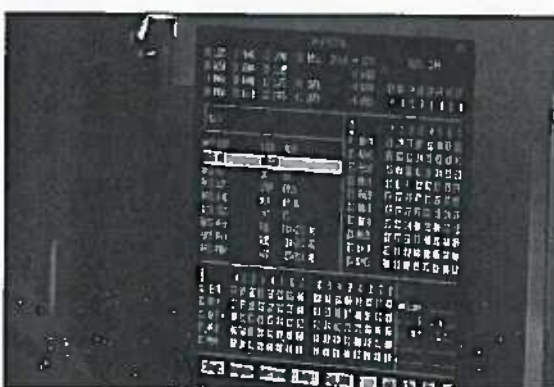
Headed by Dr. Shivamurthy R C and mentored by Dr. D S Guru, the team comprises of experienced, learned professionals that are keen on learning themselves to better what they offer to the students. An Array of experienced personnel from dynamic career background, they bring in greater expertise in molding young seekers with an apt orientation to the professional mindsets in terms of what the industry desires.

► *Distinctiveness / Accolades*

- Certified courses from universities of global repute through association with course era, udemy, etc.
- Research activities with an emphasis on local deployment particularly to ease out agriculturalists.
- Many a faculty are serving as distinguished members and chairs in prestigious organization as well as feted by various agencies.
- Many a student has garnered prizes and rewards in curricular, co-curricular, and extra-curricular events organized by various institutions and organizations.
- Department has an in-house CDC which plans and executes training programs modules like personality development, communication skills, aptitude, English language, group discussions and mock interview

► *Career Scope*

Software Developers | System Designer | System Analyst | Security Analysts | Database Analysts | Networking Engineers | DBA (Database Administrator) | Web Developers | Software Testing |



B.E in Electronics and Communication Engineering / 4 Years**M. Tech in Signal Processing / 2 Years**

Electronics and Communication Engineering deals with the art and science of carrying out communication at a distance using both wired and wireless technologies. Students learn the principles of encoding, compression, encryption, transmitting, and decoding information on digital networks. The students learn to make electronic measurements, study the characteristics of electronic networks and their maintenance under conditions of distortion and noise for greater stability and sharper control. The Bachelor program was established in the year 2007 with an intake of 60 and increased to 120 in 2009. The Master's program was established in the year 2013. The department that has consistently set a benchmark in academic performances both at the institute and amongst contemporary institutes. Alumni of the department over 1000 to date are well accepted by the industry and society alike and their testimonials are acknowledged in improving the standards set and surpass the same with the right attitude. Association with agencies such as IEEE Robotics and Automation Society, IEEE Signal Processing Society, IEEE Circuit and Systems and The Institution of Electronics and Telecommunication Engineers (IETE) provide greater exposure to students.

VISION

To be recognized by the society at large as offering value based quality education to groom the next generation entrepreneurs, leaders and researchers in the field of electronics and communication to meet the challenges at global level.

MISSION

1. To groom the students with strong foundations of electronics and communication engineering and to facilitate them to pursue higher education and research.
2. To educate and prepare the students to be competent to face the challenges of the industry/society and /or to become successful entrepreneurs.
3. To provide ethical and value-based education by promoting activities addressing the societal needs.
4. Enable students to develop skills to solve complex technological problems of current times and also provide a framework for promoting collaborative and multidisciplinary activities.

**Program Educational Objectives**

- Be able to have a successful career in dynamic industry that is global, multidisciplinary and evolving
- Solve problems, design and innovate while they work individually or in teams with sense of professional ethics and social responsibility.
- Communicate effectively and manage resources skillfully as members and leaders of the profession.



MIT Mysore



► *The Team*

The team is competent and competitive in mindset as is the nature of the stream of studies. The team currently headed by Dr. Ravichandra and mentored by Dr. Murali S, is expanding its vision in terms of repute in and around Mysuru. The aspiring students are served with the best of the knowledge and practical skill sets by learned cumulative experience of the collaborative professionals.

► *Distinctiveness / Accolades*

- Unique lab set up in collaboration with Texas Instruments.
- Has received funding of Rs. 12.5 Lakh in 2017 from the Department of Agriculture, GoK
- The department has received startup grant of 500\$ from IEEE RAS, USA.

► *Career Scope*

Scientists and Engineers | Engineering Assistants | Field Test Engineer
 Network Planning Engineer | Electronics and Communications Consultant
 Electronics Technician | Research and Development Software Engineer
 Service Engineer | Senior Sales Manager | Technical Director | Technical Sales and Marketing
 Customer Support Engineer



B.E in Information Science and Engineering / 4 Years

Information Science and Engineering is a discipline that includes theories, standards, methods, and innovations of various domains like mathematics, cognitive science, and information theory to solve complex IT problems. Information Science Engineering focuses on collecting, categorizing, strategizing, and storage information. The Bachelor program was established in the year 2007 with an intake of 60 and increased to 120 in 2012. The department has set itself a notch above the contemporaries in terms of initiatives and expanding the horizon in research and thus imparts proven expertise to students. Alumni over 800 to date are prospering in their field of occupation and their testimonials speak of it and their inputs are well adopted in improving the quality of functioning of the department. Association with agencies such as The Computer Society of India (CSI), Indian Society of Technical Education-Student Chapter (ISTE), etc provides greater exposure to the students.

VISION

To be recognized as the best center for technical education and research in the field of information science and engineering

MISSION

1. To facilitate adequate transformation in students through a proficient teaching learning process with the guidance of mentors and all-inclusive professional activities.
2. To infuse students with professional, ethical and leadership attributes through industry collaboration and alumni affiliation
3. To enhance research and entrepreneurship in associated domains and to facilitate real time problem solving

**Program Educational Objectives**

- Proficiency in being an IT professional, capable of providing genuine solutions to information science problems.
- Capable of using basic concepts and skills of science and IT disciplines to pursue greater competencies through higher education.
- Exhibit relevant professional skills and learned involvement to match the requirements of technological trends.



► *The Team*

Highly qualified, trained, and energetic personnel, that have proven their metal in reaching out to students in a very constructive manner, are headed by Dr. Sharath Kumar Y H and mentored by Dr. Murali S. The team is steadily progressing in terms of research repute whilst always rendering bettering academic progress year on year.

► *Distinctiveness / Accolades*

- Personnel of the department are highly acknowledged at the university and governing bodies of the county.
- Has received funding of Rs. 12.5 Lakh in 2017 from the Department of Agriculture, GoK.
- Personnel of the department acknowledged as Chairs of High Profile conferences and appointed as Reviewer / Editorial Board Members in various International Journals.

► *Career Scope*

Software Engineer | Software Tester | IT manager | Data Miner | IT Maintenance Engineer
Application developer | Web designer | System Analyst | Networking Engineers | DBA (Database Administrator) | Web Developers | Software Testing | Database Analysts | Security Analysts



B.E in Mechanical Engineering / 4 Years
M. Tech in Thermal Power Engineering / 2 Years

Mechanical Engineering came into prominence at the turn of the industrial revolution with the steam engine and the spinning mills of England. The word 'Engineering' comes from the word 'Engine,' which comes from Thermodynamics, a fundamental discipline in the field. The Bachelor program was established in the year 2007 with an intake of 60 and increased to 120 in 2008. The Master's Program was established in the year 2012. The alumni of over 1000 to date have spread out all over the world and the progressing in their career with learning attitude that has been a legacy of the department over the years to instill such quality into its students. Association with agencies such as The Quality Circle Forum of India- Student Chapter (QCFI), Indian Society of Heating, Refrigeration and Air Conditioning Engineering – Student Chapter (ISHRAE), etc provide greater exposure to the students.

VISION

To excel in technical education by producing Mechanical Engineers who are competitive, contributing and sustainable in the global socio-technological front

MISSION

1. To enrich teaching learning experience through distinguished practices and ever improving infrastructure.
2. To enhance student performance through constant guidance, motivation and mentoring.
3. To develop distinct skills, leadership qualities and creative thinking among the learners through sensible endeavors.

► Program Educational Objectives

Mechanical Engineering graduates will be able to,

- Pursue their professional career in core and allied domains.
- Continuously upgrade their professional skills through higher education and/or other learning programs.
- Exhibit strong professional and social ethics, and participation in interdisciplinary ventures



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Srirangapatna Taluk
Mandya District - 571477

► *The Team*

Well learned and experienced personnel from varying societal background and ethnicity bring a vibrant dynamism into the department, led by Dr. Mohamed Khaisar and mentored by Dr. Y T Krishnegowda. Ventures are more in their spectrum and the team plays pivotal roles in encrypting end-to-end leaving no stone unturned to better its overall functioning. Personnel of the department has been acknowledged as resource persons and experts in various fields of study as well as publications in high profile conferences have been acknowledged as best papers.

► *Distinctiveness / Accolades*

- Over 100 value-added vocational certified programs organized till date, several FDPs, workshops, etc
- NASA Systems Engineering Award
- Center of Excellence in Mechatronics Training and Engineering Research
- Only Institution in the country to have QCFI Student Chapter
- Personnel of the department acknowledged as Chairs of High Profile conferences and appointed as Reviewer / Editorial Board Members in various International Journals
- Personnel of the department having bestowed with various awards such as 'Shishyaru Mechidha Guru', 'Guru Bhushana' etc by various NGO's.

► *Career Scope*

Automobile Industries | Aerospace Industries | Steel Plants | Computer Industries
 Product Design Engineers | Research and Development (R&D) engineers
 Production Engineers | Testing and Analyst Engineers | Installation Engineers
 Maintenance Engineers | Project Engineer | Manufacturing Engineer | Development Engineer



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Master of Business Administration / 2 Years

A Master of Business Administration is a Master's program that provides theoretical and practical training for business or investment management. MBA is designed to help graduates gain a better understanding of general business management functions. The MBA degree can have a general focus or a specific focus in fields such as accounting, finance, or marketing, including relationship managers. The Department of Management Sciences at MIT Mysore was established in the year 2009 with an intake of 60 and subsequently increased to 120 in the year 2012. With over 1000 alumni to date, the department has consistently been able to provide high performance management graduates through its ever-improving knowledge think tank. The department is arranging some skill development programs throughout the year – English communication training, personality development training, and internship programs during semester vacations.

VISION

To contribute the nation with disciplined, responsible, professional and skilled management graduates.

MISSION

Provide excellent management education for rural and urban students, empowering them with the capability to become valuable citizens contributing continuously to global business management.

*Program Educational Objectives*

- Students will be able to contribute creatively, critically and collaboratively and making them employable/entrepreneurs.
- Students will be equipped with managerial and soft skills to plan and achieve in global changing environment.
- Students will be able to implement strategic ideas and societal values at highest professional ethics and behaving socially responsible leaders.



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▶ *The Team*

The very energetic and highly qualified faculty that bring greater diligence to its functionality, is led by Dr. Shyam B R and mentored by Dr. Y T Krishnegowda. The motto of the team has been to collaborate and contribute to better the cause and in the same hindsight several initiatives and value added programs are organized by the team year-on-year.

▶ *Distinctiveness / Accolades*

- Golden Girl- VTU 6th Rank.
- NSS Best Volunteer State Award by VTU.
- BoS, BoE, Doctoral Committee- Domain Experts under VTU and other Universities.
- Research Supervisors with garnered accolades.
- Dr. Manoj Kumara N V has garnered accolades from various organizations such as Excellent Teacher Icon Award, Outstanding Teaching Award, International Award, Young Researcher Award, Exemplary Teacher Award, Dr. Radhakrishnan Award, etc.
- MITM MBA Parivaar has the highest ratio of Doctorate among the total No. of faculty.
- Dr. Shyam B R has authored 9 book that are prescribed in various universities.

▶ *Career Scope*

Business Analysts | Account Manager | Marketing Manager | Project Manager | Human Resources (HR) Manager | Management Consultant | IT Services Marketing Head | Chief Technology Officer | Computer and Information Systems Manager | Financial Manager | Health Services Manager | IT Manager | Financial Advisor



MIT Mysore

Master of Computer Applications / 2 Years

The course structure carefully includes the practical aspects of computer science in the form of courses based on OOP's Technologies (C++/JAVA/.NET), Adv Web Technologies, Mobile Applications, Software Testing, and Python. At the same time, it includes theoretical aspects of computer science in the form of courses based on ERP, Data Mining-Warehousing, Big data, Data Analytics, Artificial Intelligence, Machine Learning, Cloud Computing, Image Processing, Computer Networks and System Simulations etc. The department was established in the year 2008 with an intake of 60. The main objective of the department of imparting knowledge and train the students to make them competent, motivated software professionals and technocrats. The department not only supports freedom of thought while improving the creativity of the students, but also encourages growth, and cultivates human values and concern for the environment and society.

VISION

To be the premier source that provides a transformative education to create computer professionals, competent entrepreneurs & technocrats to meet the global challenges.

MISSION

1. To facilitate students to nurture skills to practice their professions competently to meet the ever-changing needs of society & environment
2. To develop the potential of human resources with new ideas, research to meet the requirements of cutting edge technology

► Program Educational Objectives

- Graduates are prepared to be employed in IT industries and be engaged in learning, understanding, and applying new ideas.
- Graduates are prepared to be employed in academics and research environment.
- To provide an opportunity to students to learn the latest trends in computer technology and make them ready for life-long learning process with leadership skills and corporate social responsibilities.



MITM, 2018



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► *The Team*

We believe that the approach to teaching-learning, coupled with practical experience gained during Industrial training in reputed organizations, equips our students to handle the challenges posed by the IT Industry. Energetic and well qualified professionals are taking care of the students in all aspects under the leadership of Prof. Manjunath B and mentored by Dr. T Vasudev. It is evident that every year growth of our students show the efforts put in by the team.

► *Distinctiveness / Accolades*

- Department students have participated at various state level and district level technical events and also have won prizes, got scholarships/ internships.
- Students have secured ranks at VTU and made our department stand top in Mysore region MCA colleges. 5th rank in the year 2015-16, 9th rank in the year 2018-19, 3rd, 7th and 8th rank together in the year 2019-20.
- Dr. T Vasudev, has been the Chairman of Board of Studies and Governing Council Member of the reputed Institutions / universities.
- Faculty were invited to assess and improve the teaching and learning process in the department of Computer Science at Huanghai University, China.

► *Career Scope*

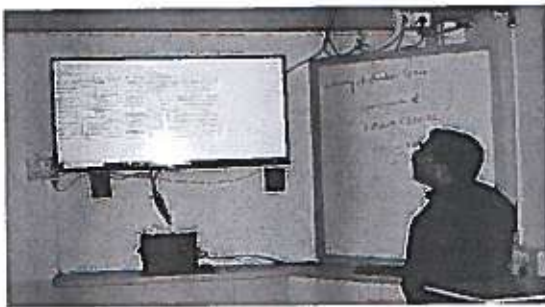
Entrepreneur | Free Lancer | Full Stack Developer | Software Developer | Software Tester
System Administrator | Technical Writers | Computer System Analyst | Database Administrator
Software Publisher | Software Application Architect | Software Consultant | Web Developer
Mobile Application Developer | Teaching Profession



The primary aim of the library is to support the curriculum needs of students, teaching staff, and support staff of the institution through the development of relevant collections. Ably headed by Prof. Ashoka R and served by a diligent team, the provision of services designed to meet the user information and learning need such as Lending Service, Digital Library Service (Online Services), Multimedia and Periodical services in 780 square meters of space located in the cellar. Library follows the open access system, encouraging the user to browse resources freely in the knowledge center. The library is a member of the VTU Consortium and it has access to plenty of e-resources under the consortium.

▶ Key Features

- Book Bank Books: Issuing a set of books to each student to keep themselves for a semester.
- General reading room: where students can bring their personal books to study
- Digital Library Service: Unlimited internet browsing and downloading facility along with e-resources (lecture videos / e-journals / e-books / e-question papers / e-notes / e-project reports/ etc.)
- Multimedia Centre: Equipped with IT infrastructure for teaching-learning process.



MIT Mysore

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The department is headed by Mr. Shiva Sagar S D and a team of faculty coordinators. MIT Mysore has an exclusive in-house soft skills training program for our students, imparted by experts in the field. These courses help students develop competencies and capabilities. It helps them to develop interpersonally, communication, team building, and leadership skills for greater productivity and performance and above all 'employability'. The course the structure is progressive and would see a rise in level as each semester progresses. This has been done keeping in mind their present requirement and making them ready for a scenario four years down the line. The corporate world is a stage and all of us are performers. Thus, arises the need of building an exquisite personality and ability to make lasting impressions through perfect conduct. The soft skills training sessions would cover everything that would enable a student to stand out in a crowd of career builders. Some of the training sessions include Career Guidance, Corporate training, and Niche Skills training, webinars and Recruiter and alumni talk.



Through all the training that is provided to the students, the department through its vast array of corporate network, as per the schedule companies are invited to conduct recruitment drives through corporate internships, recruitment corner logos, and students are given ample opportunities to pocket their career launch.

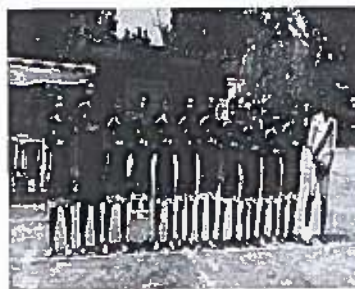
PLACEMENT STATISTICS OF THE LAST TWO YEARS.

Year	Total No. of Final Year Eligible Students	Total Offers
2020-21	636	455
2019-20	573	418

Shiva Sagar S D
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Physical education is an integral part of young people's education. Physical Education Department at MIT Mysore, led by Mr. Dhanya Sundar H, provides an opportunity for all students to involve themselves in physical activity. The purpose and focus of PED at MITM is to identify skills and hidden talents among the students and motivate to excel themselves in the field of Physical education. Students can experience success in different ways in physical education. For some, the pursuit of excellence and the achievement of sporting goals will be the focus. College provides indoor and outdoor sports facilities for training the students and encourages them to participate in the University, district, and state level competitions. The institute has a playground area of 265x165 sq.m, that houses badminton courts, one basketball court, facilities for table tennis and other indoor games like carom and chess, a modern multi gymnasium and a separate fitness center for athletes. The institution has an athletic track of 400 meters, facility for all kinds of throws and a pavilion.



MITMysore

The NSS unit of the institute is actively engaged right through the year in conducting awareness programs on several issues of social and environmental relevance with the Program Officer, Prof. Kiran Kumar L. acknowledged for the same at the university level. It conducts blood donation camps and free eye camps for the benefit of the local community. The unit also attempts to create awareness of environmental conservation through an annual sapling planting program. In the year 2018-19, the awards for NSS namely 'Best Unit', 'Best Program Officer' and 'Best Volunteer' have been conferred by the university.



Transportation

The Institute offers a commutation facility for all students and staff of the institute. It's compulsory for all the students to come by bus provided by MIT Mysore. The institute provides transportation facilities from every nook and corner of Mysuru city, Mandya, and suburban such as K R Nagar, Hunsur, H D Kote, Najungud, T Narasipura, Kollegal, Malavalli, Bannur, Bharathinagar (K M Doddi), Maddur, Pandavapura, KRS, K R Pet, Chamaraja Nagar, etc.

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MITMysore

To maintain and enhance the quality of life at the institute for students and staff, various support systems are effectively functioning at the institute. The said systems are bound by the policies that are declared fit to follow and are governed by the committees that oversee their functioning. The cells are Grievance Redressal Cell, Anti- Sexual Harassment Cell, Anti-Ragging Cell, SCST and OBC welfare Cell, Swachh Bharat Mission Cell, Training & Placement Cell, Student Counselling and Mentoring Cell, Sports Committee and Cultural Committee.



Winning Formula –student Mentoring

- Once admitted student is termed a mentee supervised from day one by a teacher.
- Personalized guidance in matters related to academic, career, and personal aspects.
- Wholesome responsibility of the student's progress and facilitating no-slip ups is an assurance.
- Mentors are accessible to students and parents alike for meaningful and trustworthy communication.



Fee Concession - By the Institute

- 10% concession in tuition fee under management/come-K quota for the children of school teachers.
- 1 year tuition fee waiver for one student in each branch who has secured more than 95% in PCM in PUC.
- 50% waiver of tuition fee for 1 student/branch that scores more than 85% and stands first in his/her branch.
- Total tuition fees waiver for students with CET Rank below 1000.
- 2-year tuition fees waiver for students with CET Rank between 1001 and 5000.
- 1-year tuition fees waiver for students with CET Rank between 5001 and 10000.
- All schemes and facilities provided by the Government Agencies.



MCTM.org

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Hostel Facility

The Hostel facility at MIT Mysore, separate for girls and boys, is very unique- thanks to the lush greenery surrounding it and the spacious corridors leading to the rooms. The three sharing rooms have 3 cots, 3 study tables, 3 cupboards and 3 ward-robos. Fitted with energy efficient solar water heaters, the common rooms have uninterrupted hot water supply. The students are also provided with uninterrupted power supply and a backup to it in the form of UPS. A secure internet facility and wi-fi is made available. MIT's affordable hostels have 24x7 security and students have to give bio-metric attendance while entering and leaving the hostel premises. An unmatched kitchen unit is set up inside the hostel itself and a professional cooking team prepares 4-course vegetarian delicacies. The discipline of the students in the hostel is of primary importance to the institution and hence has a warden and a caretaker appointed to monitor the same. A common lobby and television facility will help the students relax during their free time. The moderately equipped gym and a spacious in-campus sports ground will motivate the students to be fitness conscious and creates a healthy environment. Ambulance services are also available, in case of an emergency, to shuttle to the nearest multi speciality hospital.

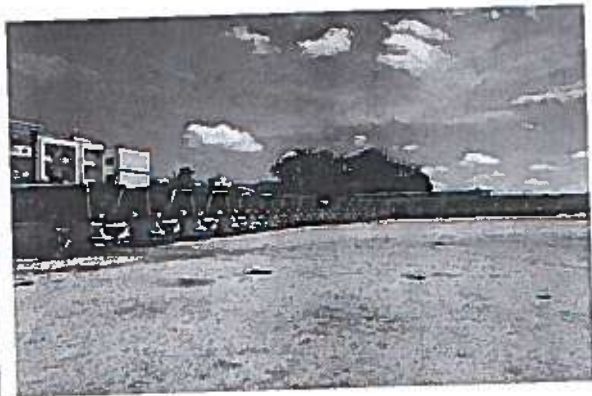


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MIT Mysore

Route Wise List of Bus Stops

- Route No. 1**
1. Manjunatha Puram
 2. Gurudwara
 3. Bidadaran Extension
 4. Metagalli Stop
 5. Royal Inn
 6. RBI Stop
 7. Belavathi Graama
 8. Columbia Asia Hospital
- Route No. 2**
1. Kumbhara Koppala Toll Gate
 2. Loka Nayaka Nagar
 3. SBI / Basavanagudi
 4. Abhishek Circle
 5. Madagowda Circle
- Route No. 3**
1. Surya Bakery
 2. Indira Nursing Home
 3. Vijaya Nagar Water Tank
- Route No. 4**
1. CITB Colony, Hebbal
 2. Nayara Circle
 3. Cawery Circle
 4. Lakshminikanta Nagar
 5. Sankarathi Circle
 6. Sangam Circle
 7. KD Circle
 8. Hysala Circle
- Route No. 5**
1. Vankikoppal
 2. Akashwara Circle
 3. Bambur Baran
 4. Highway Circle
 5. Raja Shrivasa Gate
 6. Basal Mantapa
 7. Shivashishuwa Nagar
 8. Siddique Nagar
- Route No. 6**
1. K. D. Road, Pachavathi Circle
 2. Papa Ram House
 3. Chandrikala Hospital
 4. Pachavathi Circle
 5. G. T. Devegunda's Residence
 6. Yoga Nirmala Swamy Temple
 7. Corporation Bank
 8. R. V. S. Womana Hostel
- Route No. 7**
1. Nirmithi Konda
 2. Jodi Devina Mara
 3. Basavara Circle
 4. Sangam Circle
 5. Akshaya Hospital
 6. Akshaya Petrol Bunk
- Route No. 8**
1. Sangam Bhander
 2. Prashanth Nagar Stop
 3. Harsha Bus
 4. Himakal Signal
- Route No. 9**
1. Maruthi Test
 2. Kannan Bakery
 3. Vijaya Nagar Bus Depot
- Route No. 10**
1. Orkid School
 2. Bankers Club, Niveditha Nagar
 3. Sharda Devi Nagar
 4. Stone Building
 5. Ganesha Bhander
 6. B. M. Hospital
 7. Sri Joseph's School
- Route No. 11**
1. Maruthi Temple
 2. Bahu Point
 3. University Guest House
 4. Adil Chunchangli Hotel
 5. J. S. S. Dental College / Cool Point
 6. Pushpashrama / Naidu Nagar
 7. Hale Kesara
- Route No. 12**
1. Nethaji Circle, Kankadana Nagar
- Route No. 13**
1. Adithya Circle
 2. Dattagalli Nandi Store
 3. Madamba Bakery
 4. Mahamane Circle
 5. Thiruvani Store
 6. Nandi Circle, Dattagalli
 7. Rajarajeshwari Nagar
 8. Bhogali Petrol Bunk
 9. R. M. R. Layout, Vijaya Nagar
- Route No. 14**
1. Ramakrishna Nagar
 2. A. I. C.
- Route No. 15**
1. Vivekananda Circle
 2. Kuvempu Nagar Bus Depot
 3. Shyam Studio
 4. Metropole Circle
 5. B. M. C. Circle
- Route No. 16**
1. Akshaya Bhander
 2. Vijaya Bank, Kuvempu Nagar
 3. Saraswathi Puram
 4. Fine Brigade
 5. K. R. Hospital
- Route No. 17**
1. Kuvempu Nagar 'M' Block
 2. Kuvempu Nagar Complex
 3. Jnanajanga School
- Route No. 18**
1. R. M. B. Quarter, Kuvempu Nagar
 2. K. E. B. Stop, Kuvempu Nagar
 3. Cawery School
 4. Appala Hospital
 5. R. E. O. Circle
 6. Ramaswamy Circle
- Route No. 19**
1. Banashankari Temple
 2. Jaya Nagar
 3. Under Bridge, Brand Factory
 4. Balaji Circle
- Route No. 20**
1. Shanthala Theatre
 2. Gayatri Theatre
 3. Five Lights Circle
 4. Good Shepherd School
 5. F. T. S. Ambadkar Statue
 6. Fountain Circle
- Route No. 21**
1. Amruth Bakery
 2. Bhramaramba Choultry
 3. V. B. Bakery
 4. BEML Layout, Srirama Pura
 5. Secha Bakery
- Route No. 22**
1. J. P. Nagar Last Stop
 2. J. P. Nagar Police Booth
 3. Mahanadi School
 4. Mahalakshmi Store
 5. Sewaga Farm
 6. Karumariyamma Temple
 7. St. Mary's School
- Route No. 23**
1. Gubli Maza
 2. J. P. Nagar, Shant Temple
 3. Rajarajeshwari Petrol Bunk
 4. Sterling Theatre
 5. Chamundivana Temple
- Route No. 24**
1. Shiva Temple, Atavinda Nagar
 2. Naidu Stores, Sri Rama Pura
 3. Railway Workshop
 4. N. I. E. Stop
 5. Silk Factory Circle
 6. Chamundi Puram Circle
- Route No. 25**
1. S. P. Office
 2. Gopala Gowda Hospital
 3. Daisy Stop, Siddhachannagar
 4. Kodahydr
 5. Dr. Sahyanarayana Hospital
 6. Radhakrishna Circle
- Route No. 26**
1. Kuvempu Circle, Malpanagali
 2. Rajeev Nagar Water Tank
- Route No. 27**
1. Mysore Zoo
 2. Jockey Quarters
 3. J. C. Nagar
 4. A. V. Hospital
 5. J. S. S. Public School
 6. Palya Stop, Siddhanta Layout
 7. Salagalli Depot
- Route No. 28**
1. Palya Stop
 2. Sengratha Corner
 3. Teradan Signal Light
 4. Cawery Hospital
 5. Devegowda Circle
- Route No. 29**
1. Patel Nagar
 2. Gidharshini Layout
 3. Akashali
 4. Sai Baba Temple
 5. R. K. Complex, Menal Nagar
 6. V. T. U. Regional Office
- Route No. 30**
1. BSNL Office, Shakti Nagar
 2. Indira Circle
 3. Madagowda Circle, Rajeev Nagar
 4. Sadha Nursing Home
- Route No. 31**
1. Akshaya Bhander (Thiruvani Circle)
 2. K. V. School, Raghavendra Nagar
 3. CMWB Quarters, Jyothi Nagar
 4. Gayatri Puram Bridge
 5. Manasa School
 6. P & T Quarters
 7. Shabnam Function Hall
- Route No. 32**
1. Shanti Nagar Field
 2. Udayagiri Police Station
 3. Old Post Office, Udayagiri
 4. Quba Mosque
 5. Surya Narayana Temple
 6. Albadar Mosque
 7. Gupta Stores
 8. Jobbar Hall
- Route No. 33**
1. Dravid Park
 2. Chikkarana Store
 3. Vinayaka Temple, M. R. Mohalla
 4. Dharm Chet, Naidu Nagar
 5. R. S. Naidu Nagar
- Route No. 34**
1. Udayagiri Circle
 2. Forum Mall
 3. Maruthi Complex
 4. Arch
 5. Rajendra Nagar Bus stop
 6. Shankar Nursing Home
 7. Kesara, Kurimandli Stop
- Route No. 35**
1. S. R. S. Hospital
 2. K. H. R. Colony
 3. Automobile Aisle
 4. Sheshadri Putam College
 5. Bharathi Cancer Hospital
- Route No. 36**
1. Bhogali Village
 2. Deepa House, Bhogali
 3. Damana Koppala Cross
 4. Deepa School, Bhogali
 5. Roopa Nagar
 6. N. P. S. Vijaya Nagar
 7. Thirja Corner
 8. Narayana School, Vijaya Nagar
 9. Kannada Circle, Vijaya Nagar
 10. Vijaya Nagar Bus Depot
- Route No. 37**
1. Vidyavardhaka College
 2. Trimestra Circle, Gubulim
 3. Adithya Hospital
 4. Nirmala Convent
- Route No. 38**
1. KR5
 2. Belagola
 3. Pump House
 4. Palahalli
 5. Sri Ranga Pattana Temple, Paschimavahini
- Route No. 39**
1. Andilana Circle
 2. Stry Bu, Ring Road
 3. Bank Colony, Bhogadi
 4. Mathra Mandali
- Route No. 40**
1. Ramana Road
 2. J. S. S. Hospital (Old)
 3. Agrahara Circle
 4. City Bus Stand
 5. Subhash Nagar
 6. Kamasakere Thundi Cross
- Route No. 41**
1. Devina Halli
 2. Kodiyala
 3. Thadavadi, Asakere
 4. Asakere
 5. Mandya Koppala
 6. Mahadeva Pura
 7. Mela Pura
 8. Nagurana Halli
- Route No. 42**
1. K. R. Pete
 2. Chikkaralli
 3. Asathi Ukkada Circle
 4. Sri Ranga Pattana (Hostel)
- Route No. 43**
1. B. R. C.
 2. T. V. S. Show Room
 3. Hoshalli Circle
 4. K. B. C.
 5. Indurava
- Route No. 44**
1. Sanjay Circle
 2. Court Stop
 3. Tubelakers
 4. V. C. Farm Gate
 5. K. Bhattacharya
- Route No. 45**
1. Water Tank
 2. Chamundeshwari Nagar
 3. P. R. S. College
 4. Surya Medicals
 5. Ganagur
- Route No. 46**
1. M. G. Layout
 2. V. V. Nagar
 3. A. V. C.
 4. Kallahalli
 5. Yelluru Circle
 6. Kallahalli
 7. Yelluru Kudi
- Route No. 47**
1. Swarnasandra in MITM
- Route No. 48**
1. KM Daddi
 2. Soongalli
 3. Gutta
 4. Factory Circle
 5. Mahaveer Circle
 6. Kingadon
- Route No. 49**
1. Rudrakshpura
 2. Madur
 3. Gajalagere Colony
 4. Hanakere
 5. Halebudanur
 6. Unmaragalli Gate
 7. Swarna Bandra
- Route No. 50**
1. Pandavapura
 2. Kennulu
 3. Pandavapura Railway Station
 4. Babu Rayana Koppala
 5. Sri Ranga Pattana
- Route No. 51**
1. KR5
 2. Belagola
 3. Pump House
 4. Palahalli
 5. Sri Ranga Pattana Temple, Paschimavahini
- Route No. 52**
1. Bharathi Vihar School, Manjanagudi
 2. Devaramanna Halli
 3. Police station
 4. Kodakula Bus Stop
 5. A.P. M. C., Bandipalya
 6. Gudurana Nagar
 7. Nachidanna Gampal Subana
 8. Vidyapeetha Circle
 9. J.C. Wed. Circle (b - Gate)
 10. Mysuru Sub Urban Bus Stand
- Route No. 53**
1. T. Narasipura Bus Stand
 2. Thiruvani Rangana
 3. Varadha Gate
- Route No. 54**
1. Kollegala
 2. Nitamballi Gate
 3. Chikkaralli (ATM)
 4. Mysuru
 5. Kumbur
 6. Gajalagere
 7. Daddagere
 8. Keelanapura
 9. Mirgalapura
 10. Varana
 11. Chikkaralli
 12. Nidana Halli Temple
- Route No. 55**
1. H. D. Kote
 2. Hampapura
 3. Ulloor Gate
 4. Parasayana Hundi
 5. Nada Shama Stop, Mysuru
 6. Nagarajalige Circle
 7. Siddappa Square
- Route No. 56**
1. Malavalli
 2. Uyyana Halli
 3. Dudda Gowdana Koppala
 4. Ganthamala
 5. Yrappavala
 6. Banur
 7. Mahabali Circle
 8. Nankia School, Banur Road
 9. Vidy Vihar College
- Route No. 57**
1. Kottamala, Banuru
 2. Banuru Bus Stand
 3. Banuru Circle
 4. Ranga Samudra Gate
 5. Hade Gowdana Hundi Gate
 6. Chennalli - Bidara Halli (Hundi) Gate
 7. Mulla Halli Gate (ATME)
 8. Bhugata Halli Cross
 9. Mandya
 10. Satalagalli Depot Junction
 11. Ring Road
- Route No. 58**
1. Chamaraja Nagar



Winners of 'aMITotsava 2K19'

[illegible]

...and, after the 1992 Los Angeles Olympic Games, the Los Angeles Police Department (LAPD) was the only police department in the United States to be named "Police Department of the Year" by the International Association of Chiefs of Police (IACP). The LAPD's success was due to its innovative use of technology, its commitment to community policing, and its focus on crime prevention. The LAPD's success was also due to its strong leadership and its commitment to the highest standards of professionalism. The LAPD's success was also due to its strong commitment to the community and its focus on crime prevention. The LAPD's success was also due to its strong commitment to the community and its focus on crime prevention.

[illegible]

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Incubation Centre to
entrepreneurial attitude amo



Srirangapatna Taluk
Mandya District - 571477



Maharaja Education Trust(R), Mysuru

Belawadi, Srirangapatna Taluk, Mandya-571477
Karnataka, India

www.mitmysore.in Phone : 08236 292601/9620228022

MET's GROUP OF INSTITUTIONS

1. Maharaja Institute of Technology Mysore.
B.E. in CE, CSE, ISE, ECE, ME
M.Tech. in CSE, Signal Processing & Thermal Power Engg.
Master of Business Administration and Master of Computer Applications.
Ph.D. in All Disciplines (VTU & university of Mysore)
Contact : Dr. Naresh Kumar B G, 9620228021
2. Maharaja Institute of Technology Thandavapura.
B.E. in CE, CSE, ISE, ECE, ME.
Contact : Dr. Y T Krishnegowda, 9620228002
3. Agriculture and Food Management Institute (AFMI).
Post Graduate Diploma in Management (Agriculture Business)
Contact : Mr. Sourab Sinha, 9620017272
4. Gopalaswamy Shishuvihara Independent PU College, Mysore.
Science - PCMB, PCMC, PCME
Commerce - EBACs, EBABm, EBAS
Contact : Mr. N R Manjunath, 9620228023
5. MIT First Grade College, Mysore.
Bachelor of Business Management (BBM)
Bachelor of Computer Applications (BCA)
Bachelor of Commerce (B.Com)
Master of Commerce (M.Com)
Contact : Dr. Chandrajith M, 9620228110
6. Gopalaswamy High School, Mysore.
7. Gopalaswamy Primary School, Mysore.
8. Gopalaswamy Shishuvihara, Mysore.
Contact: Mr. Ramprasad, 9620228026
9. Maharaja Research Foundation (Affiliated to University of Mysore).
Master of Science (MS) in All Disciplines
Contact: Dr. Murali S, 9620228001
10. Maharaja Education Academy (Sankalpa)
Contact : Mr. Akshay Rao, 9743802098

Maharaja Institute of Technology Mysore
Belawadi, Nagavanhalli Post
Srirangapatna Taluk
Mandya District - 571477



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. South-West/1-2456048771/2015/EOA

Date: 07-Apr-2015

To,
The Principal Secretary (Hr. & Tech Education)
Govt. of Karnataka, K. G.S., 6th Floor,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of approval for the academic year 2015-16

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2456048771
		Permanent Id	1-4391794
Name of the Institute	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE	Institute Address	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE BEHIND K R MILLS BELAWADI VILLAGE NAGUVANAHALLI PANCHAYAT SRIRANGAPATNA TALUK MANDYA DISTRICT KARNATAKA, MYSORE, MANDYA, Karnataka, 571438
Name of the Society/Trust	MAHARAJ EDUCATION TRUST	Society/Trust Address	12, KAMAKSHI HOSIPITAL ROAD, KUVEMPU NAGAR MYSORE, MYSORE, MYSORE, Karnataka, 560001
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Application Number: 1-2456048771*

Note: This is a Computer generated Letter of Approval. No signature is required.

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Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

Page 1 of 4

Letter Printed On: 6 May 2015



All India Council for Technical Education
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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2456048771			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SIGNAL PROCESSING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	THERMAL ENGINEERING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Vesveswaraiyah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY AND ENGINEERING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Vesveswaraiyah Technological University, Belgaum	120	120	NA	NA	NA

Application Number: 1-2456048771*

Page 2 of 4

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Letter Printed On:6 May 2015

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[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

Application Id: 1-2456048771			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
MANAGEMENT	1st Shift	POST GRADUATE	BUSINESS ADMINISTRATION	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA

Note: Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Dr. Avinash S Pant
Actg Chairman, AICTE

Copy to:

1. The Regional Officer,
All India Council for Technical Education
Health Centre Building

Application Number: 1-2456048771*

Note: This is a Computer generated Letter of Approval.No signature is required.

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Principal

Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

Page 3 of 4

Letter Printed On: 6 May 2015



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

Bangalore University Campus
Bangalore - 560 009, Karnataka

2. **The Director Of Technical Education,**
Karnataka
3. **The Registrar,**
Vesveswaraiah Technological University, Belgaum
4. **The Principal / Director,**
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BEHIND K R MILLS
BELAWADI VILLAGE
NAGUVANAHALLI PANCHAYAT
SRIRANGAPATNA TALUK
MANDYA DISTRICT
KARNATAKA,
MYSORE, MANDYA,
Karnataka, 571438
5. **The Secretary / Chairman,**
MAHARAJ EDUCATION TRUST
12, KAMAKSHI HOSIPTAL ROAD, KUVEMPU NAGAR
MYSORE,
MYSORE, MYSORE,
Karnataka, 560001
6. **Guard File(AICTE)**


Application Number: 1-2456048771*

Note: This is a Computer generated Letter of Approval.No signature is required.

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Page 4 of 4

Letter Printed On: 6 May 2015


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanaahalli Post
Srirangapatna Taluk
Mandya District - 571477



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. South-West/1-2812263583/2016/EOA

Date: 10-Apr-2016

To,

The Principal Secretary (Hr. & Tech Education)
Govt. of Karnataka, K. G.S., 6th Floor,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2812263583
Name of the Institute	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE	Permanent Id	1-4391794
Name of the Society/Trust	MAHARAJ EDUCATION TRUST	Institute Address	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE BEHIND K R MILLS BELAWADI VILLAGE NAGUVANAHALLI PANCHAYAT SRIRANGAPATNA TALUK MANDYA DISTRICT KARNATAKA, MYSORE, MANDYA, Karnataka, 571438
Institute Type	Unaided - Private	Society/Trust Address	12, KAMAKSHI HOSIPTAL ROAD, KUVEMPU NAGAR MYSORE, MYSORE, MYSORE, Karnataka, 560001

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2812263583			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								

Application Number: 1-2812263583

Note: This is a Computer generated Report.No signature is required.

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Page 1 of 3

Letter Printed On:30 April 2016

[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SIGNAL PROCESSING	FULL TIME	Vesveswaraiah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	THERMAL ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY AND ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	BUSINESS ADMINISTRATION	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	NA	NA

Application Number: 1-2812263583

Note: This is a Computer generated Report.No signature is required.

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Page 2 of 3

Letter Printed On:30 April 2016

Signature
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

The above mentioned approval is subject to the condition that MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Health Centre Building
Bangalore University Campus
Bangalore - 560 009, Karnataka
2. **The Director Of Technical Education,**
Karnataka
3. **The Registrar,**
Vesveswaraiah Technological University, Belgaum
4. **The Principal / Director,**
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BEHIND K R MILLS
BELAWADI VILLAGE
NAGUVANAHALLI PANCHAYAT
SRIRANGAPATNA TALUK
MANDYA DISTRICT
KARNATAKA,
MYSORE,MANDYA,
Karnataka,571438
5. **The Secretary / Chairman,**
MAHARAJ EDUCATION TRUST
12, KAMAKSHI HOSIPTAL ROAD, KUVEMPU NAGAR
MYSORE,
MYSORE,MYSORE,
Karnataka,560001
6. **Guard File(AICTE)**

Application Number: 1-2812263583

Note: This is a Computer generated Report.No signature is required.

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Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477

Page 3 of 3

Letter Printed On: 30 April 2016



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. South-West/1-3327469131/2017/EOA

Date: 30-Mar-2017

To,

The Principal Secretary (Hr. & Tech Education)
Govt. of Karnataka, K. G.S., 6th Floor,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of approval for the academic year 2017-18

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-4391794	Application Id	1-3327469131
Name of the Institute	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE	Institute Address	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE BEHIND K R MILLS BELAWADI VILLAGE NAGUVANAHALLI PANCHAYAT SRIRANGAPATNA TALUK MANDYA DISTRICT KARNATAKA, MYSORE, MANDYA, Karnataka, 571438
Name of the Society/Trust	MAHARAJ EDUCATION TRUST	Society/Trust Address	12, KAMAKSHI HOSPITAL ROAD, KUVEMPU NAGAR MYSORE, MYSORE, MYSORE, Karnataka, 560001
Institute Type	Unaided - Private	Region	South-West

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable
Opted for Conversion from degree to diploma	No	Opted for Conversion from diploma to degree	No	Conversion (degree to diploma or vice-versa) Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2017-18

Application Id: 1-3327469131			Course	Full/Part Time	Affiliating Body	Intake Approved for 2016-17	Intake Approved for 2017-18	NRI Approval status	PIO / FN / Gulf quota / OCI Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								

Application Number: 1-3327469131

Note: This is a Computer generated Report.No signature is required.

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[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477

Page 1 of 4

Letter Printed On: 25 April 2017



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Visvesvaraya Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SIGNAL PROCESSING	FULL TIME	Visvesvaraya Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	THERMAL ENGINEERING	FULL TIME	Visvesvaraya Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY AND ENGINEERING	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	BUSINESS ADMINISTRATION	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Visvesvaraya Technological University, Belgaum	120	120	NA	NA	NA

Application Number: 1-3327469131

Note: This is a Computer generated Report.No signature is required.

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Principal
Maharaja Institute of Technology Mysore
 Belawadi, Naguanahalli Post
 Srirangapatna Taluk
 Mandya District - 571477

Page 2 of 4

Printed On: 25 April 2017



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

The above mentioned approval is subject to the condition that

MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org.

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Health Centre Building
Bangalore University Campus
Bangalore - 560 009, Karnataka
2. **The Director Of Technical Education**,**
Karnataka
3. **The Registrar**,**
Visvesvaraya Technological University, Belgaum
4. **The Principal / Director,**
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BEHIND K R MILLS
BELAWADI VILLAGE
NAGUVANAHALLI PANCHAYAT
SRIRANGAPATNA TALUK
MANDYA DISTRICT
KARNATAKA,
MYSORE, MANDYA,
Karnataka, 571438
5. **The Secretary / Chairman,**
MAHARAJ EDUCATION TRUST
12, KAMAKSHI HOSPITAL ROAD, KUVEMPU NAGAR
MYSORE,
MYSORE, MYSORE,
Karnataka, 560001
6. **Guard File(AICTE)**

Note: ** - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.

Application Number: 1-3327469131

Note: This is a Computer generated Report.No signature is required.

Printed By : AE345311


Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477

Page 3 of 4

Letter Printed On: 25 April 2017



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)


Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

Application Number: 1-3327469131

Note: This is a Computer generated Report.No signature is required.

Printed By : AE345311


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

Page 4 of 4
Letter Printed On: 25 April 2017

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



APPROVAL PROCESS 2018-19

Extension of Approval (EoA)

F.No. South-West/1-3514925814/2018/EOA

Date: 04-Apr-2018

To,

The Principal Secretary (Hr. & Tech Education)
Govt. of Karnataka, K. G.S., 6th Floor,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of Approval for the Academic Year 2018-19

Ref: Application of the Institution for Extension of approval for the Academic Year 2018-19

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and amended on December 5, 2017 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-4391794	Application Id	1-3514925814
Name of the Institute	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE	Name of the Society/Trust	MAHARAJ EDUCATION TRUST
Institute Address	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE BEHIND K R MILLS BELAWADI VILLAGE NAGUVANAHALLI PANCHAYAT SRIRANGAPATNA TALUK MANDYA DISTRICT KARNATAKA, MYSORE, MANDYA, Karnataka, 571438	Society/Trust Address	12, KAMAKSHI HOSIPTAL ROAD, KUVEMPU NAGAR MYSORE, MYSORE, MYSORE, Karna taka, 560001
Institute Type	Unaided - Private	Region	South-West

Opted for Change from Women to Co-Ed and vice versa	No	Change from Women to Co-Ed and vice versa Approved or Not	NA
Opted for Change of Name	No	Change of Name Approved or Not	NA
Opted for Change of Site	No	Change of Site Approved or Not	NA
Opted for Conversion from Degree to Diploma or vice versa	No	Conversion for Degree to Diploma or vice versa Approved or Not	NA
Opted for Organization Name Change	No	Change of Organization Name Approved or Not	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2018-19

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2018-19	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status	Foreign Collaboration / Twinning Program Approval Status*
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	FT	Visvesvaraya Technologic al University, Belgaum	120	NA	NA	NA
ENGINEERING AND	1st	UNDER GRADUATE	INFORMATION TECHNOLOGY	FT	Visvesvaraya Technologic al University, Belgaum	120	NA	NA	NA

Application No:1-3514925814

Note: This is a Computer generated Report. No signature is required.

Printed By : ae345311

Page 1 of 3

Letter Printed On:30 April 2018

[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477

TECHNOLOGY			AND ENGINEERING						
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUATE	MECHANICAL ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUATE	CIVIL ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA	NA
MCA	1st	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA	NA
MANAGEMENT	1st	POST GRADUATE	BUSINESS ADMINISTRATION	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st	POST GRADUATE	THERMAL ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st	POST GRADUATE	SIGNAL PROCESSING	FT	Visvesvaraya Technological University, Belgaum	18	NA	NA	NA

+FT –Full Time,PT-Part Time

Deficiencies Noted based on Self Disclosure

Particulars	Deficiency
Other Details Deficiency	
List of faculty and data uploaded on the Institute web portal	Yes
Other Facilities Deficiency	
Appointment of Student Counsellor	Yes
Compliance of the National Academic Depository(NAD) as per MHRD Directives	Yes
Provision to watch MOOCS Courses through Swayam	Yes
Computational Facilities	
Internet Bandwidth-Applied Intake	Yes
Library Facilities	
Instructional Area Common Facilities	
Computer Center	Yes
Language Laboratory	Yes

*Please refer Deficiency Report for details

MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE is hereby informed to submit the compliance of the deficiencies mentioned above to the Regional Office within a period of **6 months** from the date of issuance of this letter failing which the council shall initiate strict action as defined in Approval Process Handbook 2018-19 during the subsequent Academic Year.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Copy to:

Application No:1-3514925814

Note: This is a Computer generated Report. No signature is required.
Printed By : ae345311


 Principal
 Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
 Srirangapatna Taluk
 Mandya District - 571477

Prof. A.P Mittal
Member Secretary, AICTE

1. The Regional Officer,
All India Council for Technical Education
Health Centre Building
Bangalore University Campus
Bangalore - 560 009, Karnataka
2. The Director Of Technical Education**,
Karnataka
3. The Registrar**,
Visvesvaraya Technological University, Belgaum
4. The Principal / Director,
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BEHIND K R MILLS
BELAWADI VILLAGE
NAGUVANAHALLI PANCHAYAT
SRIRANGAPATNA TALUK
MANDYA DISTRICT
KARNATAKA,
MYSORE, MANDYA,
Karnataka, 571438
5. The Secretary / Chairman,
MAHARAJ EDUCATION TRUST
12, KAMAKSHI HOSPITAL ROAD, KUVEMPU NAGAR
MYSORE,
MYSORE, MYSORE,
Karnataka, 560001
6. Guard File(AICTE)

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.



APPROVAL PROCESS 2019-20

Extension of Approval (EOA)

Date: 29-Apr-2019

F.No. South-West/1-4261810568/2019/EOA

To,

The Principal Secretary (Hr. & Tech Education)
Govt. of Karnataka, K. G.S., 6th Floor,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of Approval for the Academic Year 2019-20

Ref: Application of the Institution for Extension of approval for the Academic Year 2019-20

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2018 notified by the Council vide notification number F.No.AB/AICTE/REG/2018 dated 31/12/2018 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-4391794	Application Id	1-4261810568
Name of the Institute	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE	Name of the Society/Trust	MAHARAJ EDUCATION TRUST
Institute Address	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE BEHIND K R MILLS BELAWADI VILLAGE NAGUVANAHALLI PANCHAYAT SRIRANGAPATNA TALUK MANDYA DISTRICT KARNATAKA, MYSORE, MANDYA, Karnataka, 571438	Society/Trust Address	12, KAMAKSHI HOSPIAL ROAD, KUVEMPU NAGAR MYSORE, MYSORE, MYSORE, Karna taka, 560001
Institute Type	Unaided - Private	Region	South-West

Opted for Change from Women to Co-Ed and vice versa	No	Change from Women to Co-Ed and vice versa Approved or Not	NA
Opted for Change of Name	No	Change of Name Approved or Not	NA
Opted for Change of Site/Location	No	Change of Site/Location Approved or Not	NA
Opted for Conversion from Degree to Diploma or vice versa	No	Conversion for Degree to Diploma or vice versa Approved or Not	NA
Opted for Organization Name Change	No	Change of Organization Name Approved or Not	NA
Opted for Merger of Institution	No	Merger of Institution Approved or Not	NA
Opted for Introduction of New Program/Level	No	Introduction of Program/Level Approved or Not	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2019-20

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2019-20	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status
ENGINEERING	1st	UNDER		FT	Visvesvaraya Technological	120	NA	NA

Application No:1-4261810568

Note: This is a Computer generated Report. No signature is required.

Printed By : ae345311

Page 1 of 3

Letter Printed On: 8 May 2019

(Signature)
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477

AND TECHNOLOGY		GRADUA TE	COMPUTER SCIENCE & ENGINEERING		University, Belgaum			
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUA TE	INFORMATION TECHNOLOGY AND ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUA TE	MECHANICAL ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUA TE	ELECTRONICS & COMMUNICATIO N ENGG	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA
ENGINEERING AND TECHNOLOGY	1st	UNDER GRADUA TE	CIVIL ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA
MCA	1st	POST GRADUA TE	MASTERS IN COMPUTER APPLICATIONS	FT	Visvesvaraya Technological University, Belgaum	60	NA	NA
MANAGEMENT	1st	POST GRADUA TE	BUSINESS ADMINISTRATIO N	FT	Visvesvaraya Technological University, Belgaum	120	NA	NA
ENGINEERING AND TECHNOLOGY	1st	POST GRADUA TE	COMPUTER SCIENCE AND ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	18	NA	NA
ENGINEERING AND TECHNOLOGY	1st	POST GRADUA TE	THERMAL ENGINEERING	FT	Visvesvaraya Technological University, Belgaum	18	NA	NA
ENGINEERING AND TECHNOLOGY	1st	POST GRADUA TE	SIGNAL PROCESSING	FT	Visvesvaraya Technological University, Belgaum	18	NA	NA

+FT –Full Time,PT-Part Time

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

It is mandatory to comply all the essential requirements as given in APH 2019-20(appendix 6)

NOTE: If the State Government / UT / DTE / DME has a reservation policy for admission in Technical Education Institutes and the same is applicable to Private & Self-financing Technical Institutions, then the State Government / UT/ DTE / DME shall ensure that 10 % of Reservation for EWS would be operational from the Academic year 2019-20 without affecting the percentage reservations of SC/ST/OBC/General . However, this would not be applicable in the case of Minority Institutions referred to the clause (1) of Article 30 of Constitution of India.

Copy to:

1. **The Director Of Technical Education**, Karnataka**
2. **The Registrar**,
Visvesvaraya Technological University, Belgaum**
3. **The Principal / Director,
Maharaja Institute Of Technology Mysore
Maharaja Institute Of Technology Mysore
Behind K R Mills
Belawadi Village
Naguvanaahalli Panchayat
Srirangapatna Taluk
Mandya District
Karnataka,
Mysore,Mandya,
Karnataka,571438**
4. **The Secretary / Chairman,
Maharaj Education Trust
12, Kamakshi Hosiptal Road, Kuvempu Nagar
Mysore.
Mysore,Mysore,
Karnataka,560001**
5. **The Regional Officer,
All India Council for Technical Education
Health Centre Building
Bangalore University Campus
Bangalore - 560 009, Karnataka**
6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanaahalli Post
Srirangapatna Taluk
Mandya District - 571477



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

'ಜ್ಞಾನ ಸಂಗಮ', ಬೆಳಗಾವಿ - ೫೯೦ ೦೧೮ ಕರ್ನಾಟಕ ರಾಜ್ಯ

ದೂರವಾಣಿ: (೦೮೩೧) ೨೪೦೫೪೬೮

ಫ್ಯಾಕ್ಸ್: (೦೮೩೧) ೨೪೦೫೪೬೮

ದಿನಾಂಕ: 22 MAR 2016

ಕುಲಸಚಿವರು

ಉಲ್ಲೇಖ ಸಂಖ್ಯೆ: 10841 (A)

ಅಧಿಸೂಚನೆ

ವಿಷಯ: ೨೦೧೫-೨೦೧೬ನೇ ಸಾಲಿಗಾಗಿ ಮುಂದುವರಿಸಿ: ವಿಸ್ತರಣಾ ಸಂಯೋಜನೆ
ಮಂಜೂರಾತಿ ಕುರಿತು.

ಉಲ್ಲೇಖ: ೧) ಆರ್ಜಿ ದಿನಾಂಕ: ೦೫.೧೨.೨೦೧೫.

೨) ಕುಲಪತಿಯವರ ಆದೇಶ ದಿನಾಂಕ: ೧೮.೦೩.೨೦೧೬.

ಗರ್ವಭರ ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿನಿಯಮ ೪೦೦ (೯)ನೇ ಪ್ರಕರಣದಡಿ ತಮ್ಮ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿರುವ ಪ್ರಸ್ತುತ

ಈ ಕೆಳಗೆ ಕಾಣಿಸಿದ ಕೋರ್ಸುಗಳಿಗೆ ಬೋಧಿಸಲು ೨೦೧೫-೨೦೧೬ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿಗಾಗಿ ಸಂಯೋಜನಾ ಮಂಜೂರಾತಿ ನೀಡಲಾಗಿದೆ.

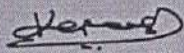
I	ಮೊದಲನೇ ವರ್ಷದಿಂದ ೪ನೇ ವರ್ಷದ ಬಿ.ಇ. ಪದವಿ ಕೋರ್ಸುಗಳು	ಅ.ನಂ.	ಕೋರ್ಸುಗಳು
		೧.	ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ & ಇಂಜಿನಿಯರಿಂಗ್
		೨.	ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ & ಕಮ್ಯುನಿಕೇಶನ್ ಇಂಜಿನಿಯರಿಂಗ್
		೩.	ಮೆಕ್ಯಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್
		೪.	ಇನ್ಫಾರ್ಮೇಶನ್ ಸೈನ್ಸ್ & ಇಂಜಿನಿಯರಿಂಗ್

ತಮ್ಮ ಕಾಲೇಜಿನಲ್ಲಿ ೨೦೦೮-೨೦೦೯ನೇ ಸಾಲಿಗೆ ಸ್ನಾತಕೋತ್ತರ ಕೋರ್ಸು ಎಂ.ಸಿ.ಎ. ಮತ್ತು ೨೦೦೯-೨೦೧೦ನೇ ಸಾಲಿಗೆ ಎಂ.ಬಿ.ಎ. ಕೋರ್ಸುಗಳು ಹಾಗೂ ೨೦೧೦-೨೦೧೧ನೇ ಸಾಲಿಗೆ ಬಿ.ಇ. ಪದವಿ ಸಿವಿಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಹಾಗೂ ೨೦೧೨-೨೦೧೩ನೇ ಸಾಲಿಗೆ ಎಂ.ಟೆಕ್. ಇನ್ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ & ಇಂಜಿನಿಯರಿಂಗ್ ಮತ್ತು ಎಂ.ಟೆಕ್. ಇನ್ ಥರ್ಮಲ್ ಪಾವರ್ ಇಂಜಿನಿಯರಿಂಗ್ ಹಾಗೂ ೨೦೧೩-೨೦೧೪ನೇ ಸಾಲಿಗೆ ಎಂ.ಟೆಕ್. ಇನ್ ಸಿಗ್ನಲ್ ಪ್ರೊಸೆಸ್ಸಿಂಗ್ ಹೀಗೆ ಒಟ್ಟು ಆರು ಕೋರ್ಸುಗಳು ಹೊಸದಾಗಿ ಪ್ರಾರಂಭವಾಗಿದ್ದು ಸರಿಯಷ್ಟೆ ಆದರೆ, ಈ ಸದರಿ ಕೋರ್ಸುಗಳು ಪ್ರಾರಂಭವಾಗಿರುವ ಕುರಿತು ರಾಜ್ಯ ಸರ್ಕಾರದಿಂದ ಆದೇಶ ಈವರೆಗೂ ಬಂದಿರುವುದಿಲ್ಲ. ಆದುದರಿಂದ, ರಾಜ್ಯ ಸರ್ಕಾರದಿಂದ ಆದೇಶ ಪಡೆದು ವಿತಾವಿಗೆ ಕಳುಹಿಸಿದ ನಂತರ ಮುಂದಿನ ಕ್ರಮ ಕೈಕೊಳ್ಳಲಾಗುವುದು.

ಆದಕೆ: ೨೦೧೫-೨೦೧೬ನೇ ಸಾಲಿನ ಮೊದಲ ವರ್ಷ / ವಿದ್ಯಾರ್ಥಿ ಪ್ರಮಾಣ ವ್ಯತ್ಯಯದ ಕುರಿತು ವಿ.ತಾ.ವಿ.ಯ ಶಿಫಾರಸ್ಸಿನ ಪ್ರತಿಯನ್ನು ಲಗತ್ತಿಸಲಾಗಿದೆ.

ಸೂಚನೆ: ಸ್ಥಳ ಪರಿಶೀಲನಾ ತನಿಖಾ ಸಮಿತಿಯು ವಿಧಿಸಿರುವ ಷರತ್ತುಗಳನ್ನು ೨೦೧೫-೨೦೧೬ನೇ ಸಾಲಿನ ಶೈಕ್ಷಣಿಕ ವರ್ಷ ಪ್ರಾರಂಭವಾಗುವ ಮುಂಚಿತವಾಗಿ ಪೂರ್ಣಗೊಳಿಸಿ ವಿತಾವಿಗೆ ಅನುಸರಣಾ ವರದಿಯನ್ನು ಕಳುಹಿಸಲು ತಿಳಿಸಲಾಗಿದೆ.

ವಿಶೇಷ ಸೂಚನೆ: ಸದರಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಸರ್ಕಾರ/ವಿವಿಷಯದ ಅನುಮೋದಿತವಾದಲ್ಲಿ ಮಾತ್ರ ಅನ್ವಯಿಸುತ್ತವೆ. ಈ ವಿಷಯದಲ್ಲಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಯಾವುದೇ ಹಕ್ಕುಬಾಧ್ಯತೆಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲವೆಂದೂ /ಮಹಾವಿದ್ಯಾಲಯ ಯಾವುದೇ ಅಧಿಕಾರವರ್ಗಕ್ಕೆ ಈ ಶಿಫಾರಸ್ಸಿನ ಮೇರೆಗೆ ಆರ್ಜಿ ಸಲ್ಲಿಸಲು ಬಾಧ್ಯತೆ ಇಲ್ಲವೆಂದು ತಿಳಿಸಲಾಗಿದೆ.



ಕುಲಸಚಿವರು

ಗೆ,
ಪ್ರಾಂಶುಪಾಲರು,

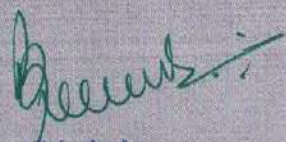
ಮಹಾರಾಜಾ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ - ಮೈಸೂರು,
ಬೆಳವಾಡಿ, ಶ್ರೀರಂಗಪಟ್ಟಣ ತಾಲ್ಲೂಕು, ಮಂಡ್ಯ ಜಿಲ್ಲೆ - ೫೭೦ ೪೩೮.

ಪ್ರತಿ ಸಾದರಪೂರ್ವಕವಾಗಿ ಮಾಹಿತಿಗಾಗಿ ರವಾನಿಸಲಾಗಿದೆ:

೧. ನಿರ್ದೇಶಕರು, ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಬೆಂಗಳೂರು - ೫೬೦ ೦೦೧.
೨. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ವಿ.ತಾ.ವಿ. ಬೆಳಗಾವಿ.
೩. ವಿಶೇಷಾಧಿಕಾರಿಗಳು, ವಿ.ತಾ.ವಿ. ಪ್ರಾದೇಶಿಕ ಕಚೇರಿ, ಮೈಸೂರು.

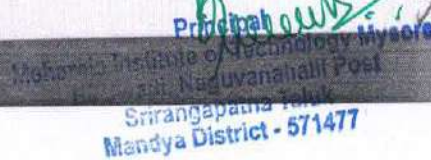
ಪ್ರತಿ ಮಾಹಿತಿಗಾಗಿ:

ಕುಲಪತಿಯವರ ಕಾರ್ಯದರ್ಶಿಗಳು, ವಿ.ತಾ.ವಿ. ಬೆಳಗಾವಿ.



Principal

Maharaja Institute of Technology Mysore
Belawadi, Naguvanahali Post
Srirangapatna Taluk
Mandya District - 571477





ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ - 590 0118, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ

ದೂರವಾಣಿ : (0831) 2405468
ಫ್ಯಾಕ್ಸ್ : (0831) 2405467
ಇಮೇಲ್ : registrar@vtu.ac.in
ವೆಬ್‌ಸೈಟ್ : www.vtu.ac.in

ವಿಶೇಷ ಸೂಚನೆ : ಸದರಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಸರ್ಕಾರ / ಎಐಸಿಟಿಇಯಿಂದ ಅನುಮೋದಿತವಾದಲ್ಲಿ ಮಾತ್ರ ಅನ್ವಯಿಸುತ್ತವೆ. ಈ ವಿಷಯದಲ್ಲಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಯಾವುದೇ ಹಕ್ಕುಬಾಧ್ಯತೆಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲವೆಂದೂ/ ಮಹಾವಿದ್ಯಾಲಯ ಯಾವುದೇ ಅಧಿಕಾರಿಗಳಿಗೆ ಈ ಶಿಫಾರಸ್ಸಿನ ಮೇರೆಗೆ ಅರ್ಜಿ ಸಲ್ಲಿಸಲು ಬಾಧ್ಯತೆ ಇಲ್ಲವೆಂದು ತಿಳಿಸಲಾಗಿದೆ.

ಇವರಿಗೆ,

ಪ್ರಾಂಶುಪಾಲರು,

ಮಹಾರಾಜಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ - ಮೈಸೂರು,

ಬೆಳಗಾವಿ, ಶ್ರೀರಂಗಪಟ್ಟಣ ತಾಲ್ಲೂಕು,

ಮಂಡ್ಯ ಜಿಲ್ಲೆ - ೫೭೧ ೪೩೮.

ಪ್ರತಿ ಸಾದರಪೂರ್ವಕವಾಗಿ ಮಾಹಿತಿಗಾಗಿ ರವಾನಿಸಲಾಗಿದೆ:

- ೧) ನಿರ್ದೇಶಕರು ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಬೆಂಗಳೂರು - ೧.
- ೨) ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ವಿ.ತಾ.ವಿ. ಬೆಳಗಾವಿ,
- ೩) ವಿಶೇಷಾಧಿಕಾರಿಗಳು, ವಿ.ತಾ.ವಿ. ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ, ಮೈಸೂರು.

ಪ್ರತಿ ಮಾಹಿತಿಗಾಗಿ:

ಕುಲಪತಿಗಳ ಕಾರ್ಯದರ್ಶಿಗಳು, ವಿ.ತಾ.ವಿ. ಬೆಳಗಾವಿ.

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Principal
Maharaja Institute of Technology Mysore
Eralavadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

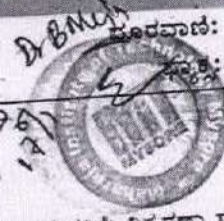
“ಜ್ಞಾನ ಸಂಗಮ”, ಬೆಳಗಾವಿ - 590 0118, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ

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ವೆಬ್‌ಸೈಟ್ : www.vtu.ac.in

ಡಾ. ಹೆಚ್.ಎಸ್. ಜಗನ್ನಾಥ ರೆಡ್ಡಿ ಬಿ.ಇ., ಎಂ.ಇ., ಓಎಚ್.ಡಿ.
ಕುಲಸಚಿವರು

ಉಲ್ಲೇಖ ಸಂ:ವಿತಾವಿ/ಶೈಕ್ಷಣಿಕ/2002-2002/ಎ-2/75767

ಅಧಿಸೂಚನೆ



ದಿನಾಂಕ: 10 JAN 2017

ವಿಷಯ : 2002-2002ನೇ ಸಾಲಿಗಾಗಿ ಮುಂದುವರಿಕೆ: ವಿಸ್ತರಣಾ ಸಂಯೋಜನೆ
ಮಂಜೂರಾತಿ ಕುರಿತು.

ಉಲ್ಲೇಖ : 1) ಆಜ್ಞೆ ದಿನಾಂಕ: 20.02.2002.

2) ಅನುಸರಣಾ ಪರದಿ ಸಮಿತಿ ಸಭೆ ದಿನಾಂಕ: 08.09.2002 & 08.09.2002.

3) ಕುಲಪತಿಗಳ ಆದೇಶ ದಿನಾಂಕ : 02.02.2002.

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿನಿಯಮ 1994ರ 4ನೇ ಪ್ರಕರಣದಡಿ ತಮ್ಮ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿರುವ ಪ್ರಸ್ತುತ ಈ ಕೆಳಗೆ ಕಾಣಿಸಿದ ಕೋರ್ಸುಗಳನ್ನು ಬೋಧಿಸಲು 2002-2002ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿಗಾಗಿ ಸಂಯೋಜನಾ ಮಂಜೂರಾತಿ ಅಧಿಸೂಚನೆಯನ್ನು ಅನುಸರಣಾ ಪರದಿ ಸಮಿತಿ ಸಭೆಯು ವಿಧಿಸಿರುವ ಷರತ್ತುಗಳಿಗೆ ಒಳಪಟ್ಟು ಹಾಗೂ ವಿತಾವಿಯ ತನಿಖಾ ಸಮಿತಿಯು ಶೈಕ್ಷಣಿಕ ವರ್ಷ 2002-2002ನೇ ಸಾಲಿಗೆ ಭೇಟಿ ನೀಡುವ ಪೂರ್ವದಲ್ಲಿ ಪೂರ್ಣಗೊಳಿಸುವ ನಿರ್ಬಂಧನೆಗೊಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ.

ನಿರ್ಬಂಧನೆಗಳು:

1. To furnish the acquaintance roll of the newly recruited/promoted faculty.
2. To appoint faculty as per the observations of the previous LIC and as per AICTE.
3. 2016ನೇ ಸಾಲಿನ ವಿ.ತಾ.ವಿ. ಇ-ಸಂಪನ್ಮೂಲ ಒಕ್ಕೂಟದ (VTU - Consortium) ದ ಕನಿಷ್ಠ ಚಂದಾ ಹಣವನ್ನು (ರೂ.೮,೫೨,೮೦೦/-) ಸಂದಾಯ ಮಾಡುವುದು.
4. ಎಐಸಿಟಿಇಯು ಕಡ್ಡಾಯ ಗೊಳಿಸಿರುವ ಎಲ್ಲಾ ತರಹದ ನಿಯತಕಾಲಿಕಗಳನ್ನು ಹೊಂದುವ ಷರತ್ತಿಗೆ ಒಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ.

ಗ	ಗಿರಿಂದ ಉನ್ನತ ವರ್ಷದ ಪದವಿ ಕೋರ್ಸುಗಳು	ಅನಂ	ಕೋರ್ಸುಗಳು
		1	Computer Science and Engineering
		2	Electronics and Communication Engineering
		3	Mechanical Engineering
		4	Information Science and Engineering

ಆಡಳಿತ: 2002-2002ನೇ ಸಾಲಿನ ಹೊಸ ವಿಷಯ / ವಿದ್ಯಾರ್ಥಿ ಪ್ರಮಾಣ ವೃತ್ತಿಯದ ಕುರಿತು ವಿ.ತಾ.ವಿಯ ಶಿಫಾರಸ್ಸಿನ ಪ್ರತಿಯನ್ನು ಲಗತ್ತಿಸಲಾಗಿದೆ.

* ತಮ್ಮ ಕಾಲೇಜಿನಲ್ಲಿ 2002-2002ನೇ ಸಾಲಿಗೆ ಸ್ನಾತಕೋತ್ತರ ಕೋರ್ಸು ಎಂ.ಸಿ.ಎ. ಮತ್ತು 2002-2002ನೇ ಸಾಲಿಗೆ ಎಂ.ಬಿ.ಎ. ಕೋರ್ಸುಗಳು ಹಾಗೂ 2002-2002ನೇ ಸಾಲಿಗೆ ಬಿ.ಇ. ಪದವಿ ಸಿವಿಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕೋರ್ಸು ಹಾಗೂ 2002-2002ನೇ ಸಾಲಿಗೆ ಎಂ.ಟೆಕ್. ಇನ್ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ & ಇಂಜಿನಿಯರಿಂಗ್ ಮತ್ತು ಎಂ.ಟೆಕ್. ಇನ್ ಥರ್ಮಲ್ ಪಾವರ್ ಇಂಜಿನಿಯರಿಂಗ್ ಹಾಗೂ 2002-2002ನೇ ಸಾಲಿಗೆ ಎಂ.ಟೆಕ್. ಇನ್ ಸಿಗ್ನಲ್ ಪ್ರೊಸೆಸ್ಸಿಂಗ್ ಹೀಗೆ ಒಟ್ಟು ಆರು ಹೊಸ ಕೋರ್ಸುಗಳು ಹೊಸದಾಗಿ ಪ್ರಾರಂಭವಾಗಿದ್ದು ಸರಿಯಷ್ಟೆ. ಆದರೆ, ರಾಜ್ಯ ಸರ್ಕಾರದಿಂದ ಆದೇಶ ಈವರೆಗೂ ಬಂದಿರುವುದಿಲ್ಲ. ಆದುದರಿಂದ, ರಾಜ್ಯ ಸರ್ಕಾರದ ಆದೇಶ ಪಡೆದು ವಿತಾವಿಗೆ ಕಳುಹಿಸಿದ ನಂತರ ಮುಂದಿನ ಕ್ರಮ ಕೈಕೊಳ್ಳಲಾಗುವುದು.

ಕುಲಸಚಿವರು 10.01.17

Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

“ಜ್ಞಾನ ಸಂಗಮ”, ಬೆಳಗಾವಿ - 590 0118, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ

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ವೆಬ್‌ಸೈಟ್ : www.vtu.ac.in

ವಿಶೇಷ ಸೂಚನೆ : ಸದರಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಸರ್ಕಾರ / ಏಜೆನ್ಸಿಯಿಂದ ಅನುಮೋದಿತವಾದಲ್ಲಿ ಮಾತ್ರ ಅನ್ವಯಿಸುತ್ತವೆ. ಈ ವಿಷಯದಲ್ಲಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಯಾವುದೇ ಹಕ್ಕುಬಾಧ್ಯತೆಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲವೆಂದೂ/ ಮಹಾವಿದ್ಯಾಲಯ ಯಾವುದೇ ಅಧಿಕಾರವರ್ಗಕ್ಕೆ ಈ ಶಿಫಾರಸ್ಸಿನ ಮೇರೆಗೆ ಅರ್ಜಿ ಸಲ್ಲಿಸಲು ಬಾಧ್ಯತೆ ಇಲ್ಲವೆಂದು ತಿಳಿಸಲಾಗಿದೆ.

ಇವರಿಗೆ,

ಪ್ರಾಂಶುಪಾಲರು,

ಮಹಾರಾಜಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ - ಮೈಸೂರು,

ಬೆಳವಾಡಿ, ಶ್ರೀರಂಗಪಟ್ಟಣ ತಾಲ್ಲೂಕು,

ಮಂಡ್ಯ ಜಿಲ್ಲೆ - ೫೭೧ ೪೩೮.

ಪ್ರತಿ ಸಾದರಪೂರ್ವಕವಾಗಿ ಮಾಹಿತಿಗಾಗಿ ರವಾನಿಸಲಾಗಿದೆ:

- ೧) ನಿರ್ದೇಶಕರು ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಬೆಂಗಳೂರು - ೧.
- ೨) ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ವಿ.ತಾ.ವಿ. ಬೆಳಗಾವಿ,
- ೩) ವಿಶೇಷಾಧಿಕಾರಿಗಳು, ವಿ.ತಾ.ವಿ. ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ, ಮೈಸೂರು.

ಪ್ರತಿ ಮಾಹಿತಿಗಾಗಿ:

ಕುಲಪತಿಗಳ ಕಾರ್ಯದರ್ಶಿಗಳು, ವಿ.ತಾ.ವಿ, ಬೆಳಗಾವಿ.

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Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477



Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018 Karnataka State

Dr. H.N. Jagannatha Reddy B.E., M.E., Ph.D.
Registrar

Phone: (0831)2498100

Fax: (0831)2405467

Ref: VTU/Aca/2017-2018/A-1/7/49/30

Date:

7 NOV 2017

AFFILIATION NOTIFICATION

Sub: Continuation / Extension of Affiliation for the academic year
2017-2018 for Maharaja Institute of Technology, Mysuru - reg.

Ref: 1. Your Application dt: 08.02.2017.

2. Vice-Chancellor's order dated: 23.09.2017.

In Exercise of the powers conferred to the University vide Section 40(9) of Visvesvaraya Technological University Act 1994 your College is granted Continuation / Extension of affiliation for the Academic year 2017-2018 to offer the following Courses. This Permission is subject to the fulfillment of the Conditions stipulated by the LIC Compliance Review Committee you are required to comply with the same prior to the LIC visit for the Academic year 2018-2019.

LIC Compliance Review Committee Conditions:

- Shortage of Professor, Associate Professor and Assistant Professors as per AICTE/VTU norms
- Shortage of faculty with Ph.D. qualification as per norms
- Insurance coverage is not provided for Faculty and Students
- Faculty-Student Ratio is not as per norms
- Salary is not paid as per AICTE/ Govt. norms

1	From 1 st to 4 th year B.E. Under Graduate Courses	Sl. No.	Courses
		1	Computer Science and Engineering
		2	Electronics and Communication Engineering
		3	Mechanical Engineering
		4	Information Science and Engineering

Further the college is also informed to follow any other Notification / Circular / Norms issued by AICTE/UGC/State Government/VTU in this regard.

1/2

Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

The courses MCA and MBA and BE in Civil Engineering and M. Tech. in Computer Science & Engineering & M. Tech. in Thermal Power Engineering and M. Tech. in Signal Processing started from the year 2008-2009, 2009-2010, 2010-2011, 2012-2013 and 2013-2014 respectively. However, the University has not received the Govt. order for starting of the new courses till date. Hence, you are informed to obtain and submit the Govt. order on or before 25.11.2017 failing which suitable action will be initiated in the regard.


REGISTRAR

Encl: VTU Recommendation letter

To,
The Principal,
Maharaja Institute of Technology (Mysuru),
Belavadi, Naguvinahally Post,
Srirangapatn Taluk,
Mandya District - 571 438

Copy fwe's to:

1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi.
2. The Director Technical Education, Bengaluru.
3. The Registrar (Evaluation), VTU, Belagavi.
4. The Regional Director, VTU, Mysuru.


Principal
Maharaja Institute of Technology Mysore
Belavadi, Naguvannahalli Post
Srirangapatna Taluk
Mandya District - 571477



Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka State

Dr. H.N. Jagannatha Reddy B.E., M.E., Ph.D.

Registrar

Phone: (0831) 2498100

Fax : (0831) 2405467

Ref: VTU/Aca./2018-2019/A-1/ 3198/24

Date:

21 JUL 2018



AFFILIATION NOTIFICATION

Sub: Continuation / Extension of Affiliation for the academic year 2018-2019 for Maharaja Institute of Technology, Mysuru - reg.

Ref: 1. Your Application dt: 05.12.2017.

2. Executive Council Resolution No. 2.1.14, dtd: 20.03.2018.

3. Vice-Chancellor's order dated: 27.06.2018.

In Exercise of the powers conferred to the University vide Section 40(9) of Visvesvaraya Technological University Act 1994, your College is granted Continuation / Extension of Affiliation for the Academic Year 2018-2019 to offer the following Courses. This permission is subject to the fulfillment of the conditions stipulated by the LIC Compliance Review Committee. You are required to comply with the same prior to the LIC visit for the Academic year 2019-2020.

LIC Compliance Review Committee Conditions:

1. Shortage of Professors and Associate Professors as per AICTE/VTU norms
2. Shortage of faculty with Ph.D. qualification as per norms
3. Faculty-Student Ratio is not as per norms
4. Salary is not paid as per AICTE/ Govt. norms

1	From 1 st to 4 th year BE Under Graduate Courses	Sl. No.	Courses & year of Starting	Temporary Affiliation
		1	Electronics & Communication Engineering - 2007	2018-2019
		2	Computer Science & Engineering - 2007	2018-2019
		3	Information Science & Engineering - 2007	2018-2019
		4	Mechanical Engineering - 2007	2018-2019
		5	Civil Engineering - 2010	2018-2019 *
2	From 1 st to 3 rd year Post Graduate Course	1	MCA - 2008	2018-2019 *
3	From 1 st & 2 nd year Post Graduate Courses	1	MBA - 2009	2018-2019 *
		2	M. Tech. in Thermal Power Engineering - 2013	2018-2019 *
		3	M. Tech. in Signal Processing - 2014	2018-2019 *
		4	M. Tech. in Computer Science & Engineering - 2013	2018-2019 *

NOTE:

1. All * marked UG/ PG Courses the University has not received the Govt. Order for starting of the new course till date. Hence you are informed to obtain and submit the Govt. Order on or before 01.10.2018, failing which suitable action will be initiated in this regard.

Photocopy &
Slc sent to Dr. Mayu
R

Principal

Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

Further the college is also informed to follow any other Notification/Circular/Norms issued by AICTE/UGC/State Government/VTU in this regard.


REGISTRAR
 \$


To,
The Principal,
Maharaja Institute of Technology,
Belavadi, Naguvinahally Post,
Srirangapatn Taluk,
Mandya District – 571 438

Copy fwe's to:

1. Hon'ble Vice-Chancellor, through the Secretary to VC, VTU, Belagavi.
2. The Chairman / Secretary, Maharaja Education Trust, Kamakshi Hospital Road, Kuvempunagar, Mysuru – 570 002.
3. The Director Technical Education, Bengaluru.
4. The Registrar (Evaluation), VTU, Belagavi.
5. The I/c Regional Director, VTU, Mysuru.


Principal
Maharaja Institute of Technology Mysore
Belavadi, Naguvinahally Post
Srirangapatna Taluk
Mandya District - 571477



Visvesvaraya Technological University

"Jnana Sangama", Belagavi-590 018, Karnataka State

Registrar

Phone: (0831) 2498100
Fax: (0831) 2405467

Ref. VTU/ACA-LIC/2019-20/SOI 5583/78

Date: 5 OCT 2019

AFFILIATION NOTIFICATION

Sub: Continuation/Extension of Affiliation for the Academic Year 2019-20

- Ref: 1. Executive Council Resolution No. 2.1.2 dated 17-March-2019
2. Vice Chancellor's order dated 13-September-2019

In Exercise of the powers conferred to the University vide Section 40(9) of Visvesvaraya Technological University Act 1994, your college is granted Continuation / Extension of Affiliation for the Academic Year 2019-20 to offer the following Courses. This permission is subject to the fulfillment of the conditions stipulated by the LIC Compliance Review Committee(refer Annexure A). You are required to comply with the same prior to LIC visit for the Academic Year - 2020- 2021.

Courses

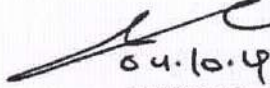
Course	Year of Starting	Present Intake	Proposed Intake	VTU Intake	VTU Recommendation	Applicable From	Applicable To
Computer Science and Engineering - PG	2013	18	18	18	TA	2019-20	2019-20
Master of Computer Applications - PG	2008	120	60	60	TA	2019-20	2019-20
Signal Processing - PG	2014	18	18	0	TA	2019-20	2019-20
Thermal Power Engineering - PG	2013	18	18	0	TA	2019-20	2019-20
MBA - PG	2009	120	120	120	TA	2019-20	2019-20
Mechanical Engineering - UG	2007	120	120	120	TA	2019-20	2019-20
Information Science & Engineering - UG	2007	120	120	120	TA	2019-20	2019-20
Electronics & Communication Engineering - UG	2007	120	120	120	TA	2019-20	2019-20
Computer Science & Engineering - UG	2007	120	120	120	TA	2019-20	2019-20
Civil engineering - UG	2010	120	120	120	TA	2019-20	2019-20

NOTE:

1. All the courses for which government notification is not obtained either for starting of a new course or for permanent affiliation, this notification is subject to the approval of State Government of Karnataka. If already obtained, send a copy to the University.
2. TA- Temporary Affiliation, PA/PR - Permanent Affiliation

Further, the college is also informed to follow any other Notification/Circular/Norms Issued by AICTE / UGC / State Government / VTU in this regard.

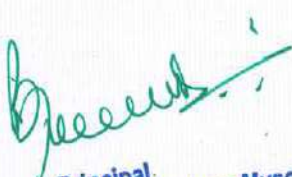

Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477


6.4.10.4
REGISTRAR

To,
The Principal,
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI VILLAGE SR PATNA TALUK MANDYA DIST

Copy Fwc's to:

1. Hon'ble Vide-Chancellor, through the Secretary to VC, VTU, Belagavi.
2. The Principal Secretary, Department of Higher Education, Government of Karnataka.
3. The Under Secretary, Department of Higher Education, Government of Karnataka.
4. The Director, Technical Education, Bengaluru.
5. Chairman/Secretary, MAHARAJA EDUCATION TRUST, KAMAKSHI HOSPITAL ROAD KUVEMPU NAGAR MYSURU MYSURU
6. The Registrar (Evaluation), VTU, Belagavi.
7. The Vc Regional Director, VTU, *mysore*.


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477



Maharaja Institute of Technology Mysore

Approved by AICTE, New Delhi,
Affiliated to Visvesvaraya Technological University, Belagavi
Recognized by Government of Karnataka

Ref: MITM/Principal/2022/163

Dated: 21.03.2022

DECLARATION

The List of Courses Offered in the College across the various programs during the Assessment period 2015-16 to 2019-20 are as follows. The Institute hereby submits the error that has occurred and requests the NAAC through the DVV to accept the corrections and oblige.

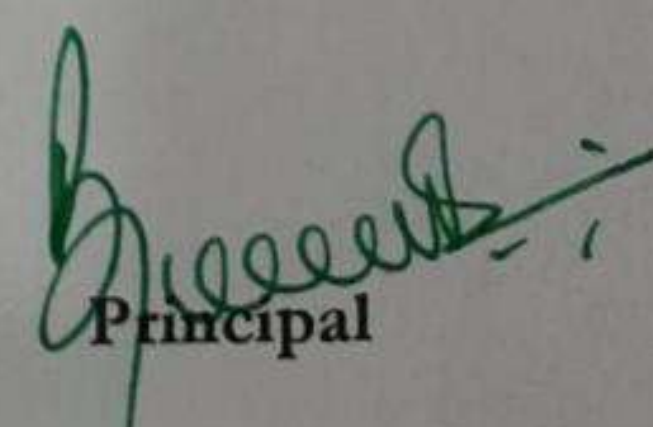
S/L	Program Name	Program Code	Academic Year	No. of Courses Offered
1	B.E. in Computer Science and Engineering	B.E./CSE	2019-20	68
			2018-19	64
			2017-18	61
			2016-17	63
			2015-16	63
2	B.E. in Civil Engineering	B.E./CV	2019-20	70
			2018-19	70
			2017-18	66
			2016-17	67
			2015-16	67
3	B.E. in Electronics and Communication Engineering	B.E./ECE	2019-20	63
			2018-19	63
			2017-18	62
			2016-17	62
			2015-16	62
4	B.E. in Information Science and Engineering	B.E./ISE	2019-20	63
			2018-19	65
			2017-18	62
			2016-17	64

Belawadi, Srirangapatna Taluk, Mandya - 571 477.

E-mail : principal@mitmysore.in Website : www.mitmysore.in

Telephone: 08236-292601 Telefax : 08236-292603 Mob : 9620228021

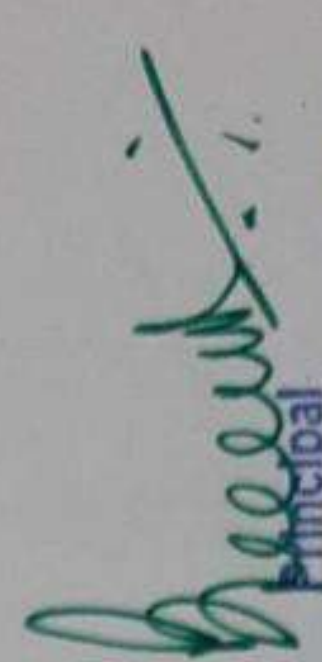
			2015-16	64
			2019-20	73
5	B.E. in Mechanical Engineering	B.E./ME	2018-19	72
			2017-18	71
			2016-17	71
			2015-16	71
6	M.Tech in Signal Processing	M.Tech/ECE	2019-20	20
			2018-19	20
			2017-18	21
			2016-17	22
			2015-16	-
7	M.Tech in Thermal Power Engineering	M.Tech/MTP	2019-20	22
			2018-19	22
			2017-18	22
			2016-17	15
			2015-16	15
8	Master of Business Administration	MBA	2019-20	32
			2018-19	32
			2017-18	32
			2016-17	32
			2015-16	31
9	Master of Computer Applications	MCA	2019-20	45
			2018-19	45
			2017-18	42
			2016-17	41
			2015-16	41


Principal

Principal
Maharaja Institute of Technology Mysore
Belawadi, Nagvuanahalli Post
Srirangapatna Taluk
Mandya District - 571477


SCHEME OF TEACHING & EXAMINATION
BE CIVIL ENGINEERING
III SEMESTER

Sl. No	Subject Code	Title	Teaching Dept.	Teaching hours /week		Examination			
				Th.	Pr.	Dur- ation	I.A. Max. Marks	Theory/ Pract. Max. Marks	Total Marks Max. Marks
1	10 MAT 31	Engineering Mathematics –III	Maths	4	--	3	25	100	125
2	10 CV 32	Building Materials and Construction Technology	Civil	4	--	3	25	100	125
3	10 CV 33	Strength of Materials	Civil	4	--	3	25	100	125
4	10 CV 34	Surveying – I	Civil	4	--	3	25	100	125
5	10 CV 35	Fluid Mechanics	Civil	4	--	3	25	100	125
6	10 CV 36	Applied Engineering Geology	Civil/Geo.	4	--	3	25	100	125
7	10 CVL 37	Civil Engg. Material Testing Laboratory	Civil	---	3	3	25	50	75
8	10 CVL 38	Surveying Practice – I	Civil	---	3	3	25	50	75
			Total	22	08	24	200	700	900


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

**SCHEME OF TEACHING & EXAMINATION
BE CIVIL ENGINEERING
IV SEMESTER**

S. No	Subject Code	Title	Teaching Dept.	Teaching hours / week		Examination			
				Th.	Pr.	Dur- ation	I.A. Max. Marks	Theory/ Pract. Max. Marks	Total Marks Max. Marks
1	10 MAT 41	Engineering Mathematics -IV	Maths	4	--	3	25	100	125
2	10 CV 42	Concrete Technology	Civil	4	--	3	25	100	125
3	10 CV 43	Structural Analysis - I	Civil	4	--	3	25	100	125
4	10 CV 44	Surveying - II	Civil	4	--	3	25	100	125
5	10 CV 45	Hydraulics and Hydraulic Machines	Civil	4	--	3	25	100	125
6	10 CV 46	Building Planning & Drawing	Civil	1	6	4	25	100	125
7	10 CVL 47	Surveying Practice-II Laboratory	Civil	---	3	3	25	50	75
8	10 CVL 48	Applied Engineering Geology Laboratory	Civil/Geo.	---	3	3	25	50	75
			Total	21	12	25	200	700	900



Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

**SCHEME OF TEACHING AND EXAMINATION
B.E. CIVIL ENGINEERING
V SEMESTER**


Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination		
				Theory	Practical	Duration (Hrs)	IA	Total
1	10 AL 51	Management & Entrepreneurship	Any Dept.	04	-	03	25	125
2	10 CV 52	Design of RCC Structural Elements	Civil	04	-	03	25	125
3	10 CV 53	Structural Analysis - II	Civil	04	-	03	25	125
4	10 CV 54	Geotechnical Engineering - I	Civil	04	-	03	25	125
5	10 CV 55	Hydrology and Irrigation Engineering	Civil	04	-	03	25	125
6	10 CV 56	Transportation Engineering - I	Civil	04	-	03	25	125
7	10 CVL 57	Hydraulics and Hydraulic Machinery Lab.	Civil	-	03	03	25	75
8	10 CVL 58	Computer Aided Design Lab.	Civil	-	03	03	25	75
TOTAL				24	06	24	200	900

**SCHEME OF TEACHING AND EXAMINATION
B.E. CIVIL ENGINEERING
VI SEMESTER**

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination		
				Theory	Practical	Duration (Hrs)	IA	Total
1	10 CV 61	Environmental Engineering - I	Civil	04	-	03	25	125
2	10 CV 62	Design & Drawing of RC structures	Civil	02	03	04	25	125
3	10 CV 63	Transportation Engineering - II	Civil	04	-	03	25	125
4	10 CV 64	Geotechnical Engineering - II	Civil	04	-	03	25	125
5	10 CV 65	Hydraulic Structures and Irrigation Design-Drawing	Civil	02	03	04	25	125
6	10 CV 66x	Elective-I (Group A)	Civil	04	-	03	25	125
7	10 CVL 67	Geotechnical Engineering Lab.	Civil	-	03	03	25	75
8	10 CVL 68	Extensive Survey Viva Voce	Civil	-	03	03	25	75
TOTAL				20	12	25	200	900

Elective-I (Group A)

10 CV 661	Theory of Elasticity	10 CV 665	Ground Water Hydrology
10 CV 662	Alternative Building Materials and Technologies	10 CV 666	Rural Water Supply and Sanitation
10 CV 663	Ground Improvement Techniques	10 CV 667	Traffic Engineering
10 CV 664	Advanced Surveying		


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Maharaja Institute of Technology Mysore
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 Mandya District - 571477

SCHEME OF TEACHING AND EXAMINATION
B.E. CIVIL ENGINEERING
VII SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		Marks		
							IA	Theory / Practical	Total
1	10 CV 71	Environmental Engineering -II	Civil	04	--	03	25	100	125
2	10 CV 72	Design of Steel Structures	Civil	04	--	03	25	100	125
3	10 CV 73	Estimation and Valuation	Civil	04	--	03	25	100	125
4	10 CV 74	Design of Pre Stressed Concrete Structures	Civil	04	--	03	25	100	125
5	10 CV 75A	Elective-II (Group B)	Civil	04	--	03	25	100	125
6	10 CV 76A	Elective-III (Group C)	Civil	04	--	03	25	100	125
7	10 CVL 77	Environmental Engineering Lab	Civil	--	03	03	25	50	75
8	10 CVL 78	Concrete and Highway Materials lab.	Civil	--	03	03	25	50	75
TOTAL				24	06	24	200	700	900

Elective-II (Group B)

10 CV 751	Matrix Method of Structural Analysis
10 CV 752	Advanced Design of RC Structures
10 CV 753	Design of Masonry Structures
10 CV 754	Earth and Earth Retaining Structures
10 CV 755	Highway Geometric Design
10 CV 756	Open Channel Hydraulics
10 CV 757	Solid Waste Management

Elective-III (Group C)

10 CV 761	Numerical methods in Civil Engineering
10 CV 762	Rock Mechanics
10 CV 763	Pavement Materials and Construction
10 CV 764	Photogrammetry and Remote Sensing
10 CV 765	Air Pollution and Control
10 CV 766	Design and Drawing of Bridges: * (2 Hrs of Theory + 3 Hrs of Drawing) * (Exam Duration : 4 Hrs)
10 CV 767	Structural Dynamics

SCHEME OF TEACHING AND EXAMINATION
B.E. CIVIL ENGINEERING
VIII SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		Marks		
							IA	Theory / Practical	Total
1	10 CV 81	Advanced Concrete Technology	Civil	04	--	03	25	100	125
2	10 CV 82	Design and Drawing of Steel Structures	Civil	02	03	04	25	100	125
3	10 CV 83A	Elective-IV (Group D)	Civil	04	--	03	25	100	125
4	10 CV 84A	Elective-V (Group E)	Civil	04	--	03	25	100	125
5	10 CV 85	Project Work	Civil	--	06	03	100	100	200
6	10 CV 86	Seminar	Civil	--	03	03	50	--	50
TOTAL				14	12	19	250	500	750

Elective-IV (Group D)

10 CV 831	Advanced Pre-stressed Concrete Structures
10 CV 832	Advanced Foundation Design
10 CV 833	Pavement Design
10 CV 834	Earthquake Resistant Design of Structures
10 CV 835	Industrial Waste Water Treatment
10 CV 836	Quality Management System in Civil Engineering

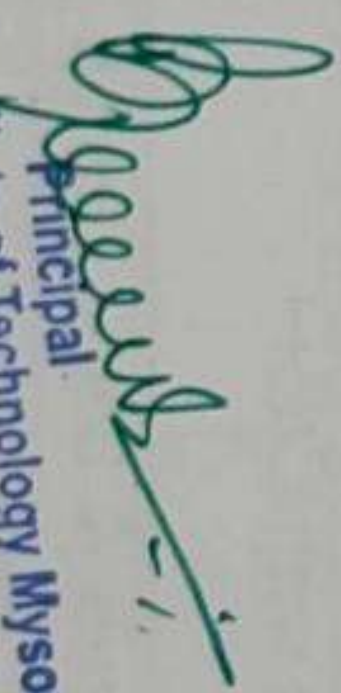
Elective-V (Group E)

10 CV 841	Finite Element Analysis
10 CV 842	Reinforced Earth Structures
10 CV 843	Urban Transport Planning
10 CV 844	Geographic Information System
10 CV 845	Advanced Design of Steel Structures
10 CV 846	Water Resources Engineering
10 CV 847	Environmental Impact Assessment

Prof. Dr. H. S. ...
Maharaja Institute of Technology Mysore
Belawadi, Nagavanahalli Post
Sirangapatna Taluk
Mandya District - 571417

B.E
Computer Science and Engineering

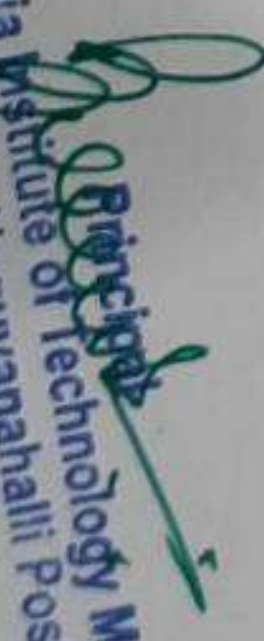
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

**SCHEME OF TEACHING AND EXAMINATION
B.E. COMPUTER SCIENCE AND ENGINEERING
(Common to CSE & ISE)**

III SEMESTER

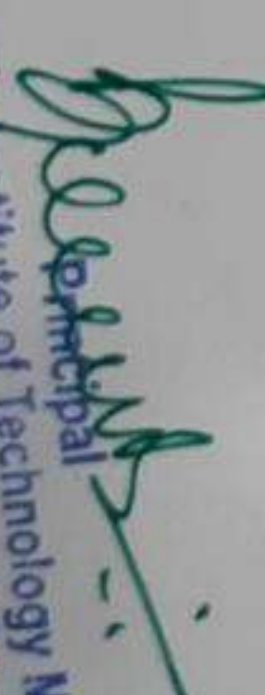
S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		IA	Exam	Marks Total
1	10MAT31	Engineering Mathematics - III	Mathematics	04	-	03	25	100	125
2	10CS32	Electronic Circuits	CSE/ISE	04	-	03	25	100	125
3	10CS33	Logic Design	CSE/ISE	04	-	03	25	100	125
4	10CS34	Discrete Mathematical Structures	CSE/ISE	04	-	03	25	100	125
5	10CS35	Data Structures with C	CSE/ISE	04	-	03	25	100	125
6	10CS36	Object Oriented Programming with C++	CSE/ISE	04	-	03	25	100	125
7	10CSL37	Data Structures with C/C++ Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL38	Electronic Circuits & Logic Design Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900


Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571417

SCHEME OF TEACHING AND EXAMINATION
B.E. COMPUTER SCIENCE AND ENGINEERING
(Common to CSE & ISE)

IV SEMESTER

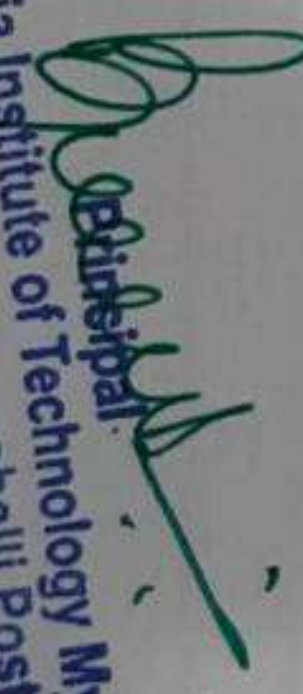
S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination			
				Theory	Practical		Marks	IA	Exam	Total
1	10MAT41	Engineering Mathematics - IV	Maths	04	-	03	25	100	125	
2	10CS42	Graph Theory and Combinatorics	CSE/ISE	04	-	03	25	100	125	
3	10CS43	Design and Analysis of Algorithms	CSE/ISE	04	-	03	25	100	125	
4	10CS44	Unix and Shell Programming	CSE/ISE	04	-	03	25	100	125	
5	10CS45	Microprocessors	CSE/ISE	04	-	03	25	100	125	
6	10CS46	Computer Organization	CSE/ISE	04	-	03	25	100	125	
7	10CSL47	Design and Analysis of Algorithms Laboratory	CSE/ISE	-	03	03	25	50	75	
8	10CSL48	Microprocessors Laboratory	CSE/ISE	-	03	03	25	50	75	
Total				24	06	-	200	700	900	


Principal
Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
 Srirangapatna Taluk
 Mandya District - 571477

V SEMESTER

SCHEME OF TEACHING AND EXAMINATION B.E. COMPUTER SCIENCE AND ENGINEERING


No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		Marks		
							IA	Exam	Total
1	10IS51	Software Engineering	CSE/ISE	04	-	03	25	100	125
2	10CS52	Systems Software	CSE/ISE	04	-	03	25	100	125
3	10CS53	Operating Systems	CSE/ISE	04	-	03	25	100	125
4	10CS54	Database Management Systems	CSE/ISE	04	-	03	25	100	125
5	10CS55	Computer Networks - I	CSE/ISE	04	-	03	25	100	125
6	10CS56	Formal Languages and Automata Theory	CSE/ISE	04	-	03	25	100	125
7	10CSL57	Database Applications Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL58	Systems Software & Operating Systems Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900


Principal
Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
 Srirangapatna Taluk
 Mandya District - 571477

**SCHEME OF TEACHING AND EXAMINATION
B.E. COMPUTER SCIENCE AND ENGINEERING**

VI SEMESTER


S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theor y	Practical		Marks		
							IA	Exam	Total
1	10AL61	Management and Entrepreneurship	CSE/ISE/ MBA	04	-	03	25	100	125
2	10CS62	Unix System Programming	CSE/ISE	04	-	03	25	100	125
3	10CS63/ 10IS662	Compiler Design	CSE/ISE	04	-	03	25	100	125
4	10CS64	Computer Networks - II	CSE/ISE	04	-	03	25	100	125
5	10CS65 / 10IS665	Computer Graphics and Visualization	CSE/ISE	04	-	03	25	100	125
6	10CS66x	Elective I (Group-A)	CSE/ISE	04	-	03	25	100	125
7	10CSL67	Computer Graphics and Visualization Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL68	Unix System Programming and Compiler Design Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900


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**SCHEME OF TEACHING AND EXAMINATION
B.E. COMPUTER SCIENCE AND ENGINEERING**

VII SEMESTER

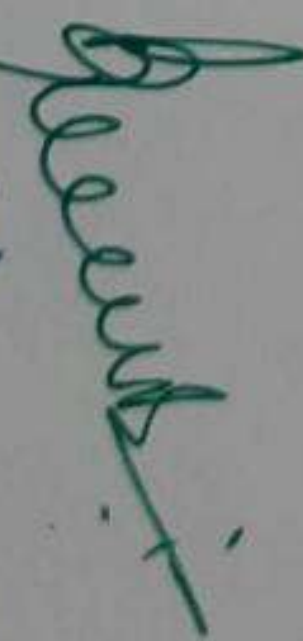
S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		IA	Exam	Total
1	10CS71	Object-Oriented Modeling and Design	CSE/ISE	04	-	03	25	100	125
2	10CS72/ 10IS752	Embedded Computing Systems	CSE/ISE	04	-	03	25	100	125
3	10CS73	Programming the Web	CSE/ISE	04	-	03	25	100	125
4	10CS74	Advanced Computer Architectures	CSE/ISE	04	-	03	25	100	125
5	10CS75x	Elective II (Group-B)	CSE/ISE	04	-	03	25	100	125
6	10CS76x	Elective III(Group-C)	CSE/ISE	04	-	03	25	100	125
7	10CSL77	Networks Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL78	Web Programming Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

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**SCHEME OF TEACHING AND EXAMINATION
B.E. COMPUTER SCIENCE AND ENGINEERING**

VIII SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration	Examination		
				Theory	Practical		IA	Exam	Total
1	10IS81	Software Architectures	CSE/ISE	04	-	03	25	100	125
2	10CS82	System Modeling and Simulation	CSE/ISE	04	-	03	25	100	125
3	10CS83x	Elective IV(Group-D)	CSE/ISE	04	-	03	25	100	125
4	10CS84x	Elective V(Group-E)	CSE/ISE	04	-	03	25	100	125
5	10CS85	Project Work	CSE		06	03	100	100	200
6	10CS86	Seminar	CSE	-	-	-	50	-	50
Total				16	06		250	500	750


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Elective IV – Group D

10CS831/10IS831
10CS832/10IS832
10CS833
10CS834/10IS834
10CS835/10IS835
10CS836/10IS836

Wireless Networks and Mobile Computing
Web 2.0 and Rich Internet Applications
VLSI Design and Algorithms
Network Management Systems
Information and Network Security
Microcontroller-Based Systems

Elective V – Group E

10CS841/10IS841
10CS842
10CS843
10CS844/10IS844
10CS845/10IS845
10CS846

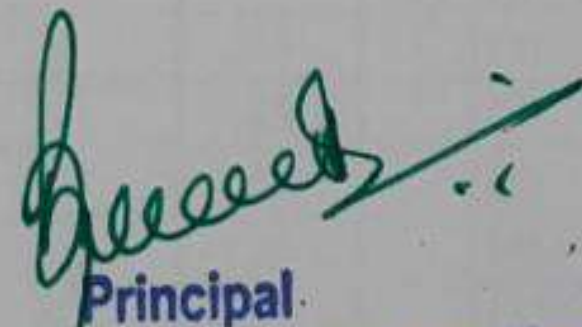
Ad-hoc Networks
Software Testing
ARM Based System Design
Services Oriented Architecture
Clouds, Grids and Clusters
Multi-core Architecture and
Programming

NOTE: Students have to register for one Elective from each of the five Elective Group.

SCHEME OF TEACHING & EXAMINATION
ELECTRONICS & COMMUNICATION ENGINEERING
III SEMESTER (COMMON TO EC/TC/ML)

Subject Code	Title	Teaching Dept.	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10MAT - 31	Engg. Mathematics - III	Mat	04		03	25	100	125
10ES - 32	Analog Electronic Ckts	@	04		03	25	100	125
10ES - 33	Logic Design	@	04		03	25	100	125
10ES - 34	Network Analysis	@	04		03	25	100	125
10IT - 35	Electronic Instrumentation	@	04		03	25	100	125
10ES - 36	Field Theory	@	04		03	25	100	125
10ESL - 37	Analog Electronics Lab	@		03	03	25	50	75
10ESL - 38	Logic Design Lab	@		03	03	25	50	75
		Total	24	06	24	200	700	900

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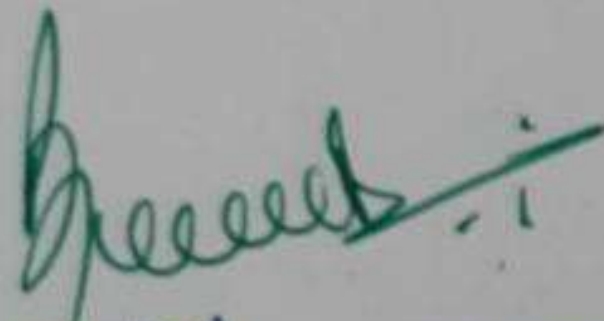


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**SCHEME OF TEACHING & EXAMINATION
ELECTRONICS & COMMUNICATION ENGINEERING
IV SEMESTER (COMMON TO EC/TC/ML)**

Subject Code	Title	Teach Dept.	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10MAT - 41	Engg. Mathematics - IV	Mat	04		03	25	100	125
10ES- 42	Microcontrollers	@	04		03	25	100	125
10ES - 43	Control Systems	@	04		03	25	100	125
10EC - 44	Signals & Systems	@	04		03	25	100	125
10EC- 45	Fundamentals of HDL	@	04		03	25	100	125
10EC - 46	Linear ICs & Applications	@	04		03	25	100	125
10ESL - 47	Microcontrollers Lab	@		03	03	25	50	75
10ECL - 48	HDL Lab	@		03	03	25	50	75
		Total	24	06	24	200	700	900

Note : @ indicates concerned discipline. ES (for theory) & ECL (for Lab) in the subject code indicates that the subject is common to electrical and electronics stream consisting of EE/EC/IT/TC/ML/BM branches of engineering.


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SCHEME OF TEACHING AND EXAMINATION
B.E. ELECTRONICS AND COMMUNICATION

V SEMESTER

COMMON TO EC/TE

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
01	10AL51	Management and Entrepreneurship	EC	4	-	3	25	100	125
02	10EC52	Digital Signal Processing	EC	4	-	3	25	100	125
03	10EC53	Analog Communication	EC	4	-	3	25	100	125
04	10EC54	Microwaves and Radar	EC	4	-	3	25	100	125
05	10EC55	Information Theory and Coding	EC	4	-	3	25	100	125
06	10EC56	Fundamentals of CMOS VLSI	EC	4	-	3	25	100	125
07	10ECL57	DSP Lab	EC	-	3	3	25	50	75
08	10ECL58	Analog Communication Lab + LIC Lab	EC	-	3	3	25	50	75
TOTAL				24	06	24	200	700	900

1

SCHEME OF TEACHING AND EXAMINATION
B.E. ELECTRONICS AND COMMUNICATION

VI SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10EC61	Digital Communication	EC	4	-	3	25	100	125
2	10EC62	Microprocessors	EC	4	-	3	25	100	125
3	10EC63	Microelectronics Circuits	EC	4	-	3	25	100	125
4	10EC64	Antennas and Propagation	EC	4	-	3	25	100	125
5	10EC65	Operating Systems	EC	4	-	3	25	100	125
6	10EC66x	Elective-I (Group A)	EC	4	-	3	25	100	125
7	10ECL67	Advanced Communication Lab	EC	-	3	3	25	50	75
8	10ECL68	Microprocessor Lab	EC	-	3	3	25	50	75
TOTAL				24	06	24	200	700	900

Elective-I (Group A)

10EC661 – Analog and Mixed Mode VLSI Design
10EC662 – Satellite Communications
10EC663 – Random Process

10EC664 – Low Power VLSI Design
10EC665 – Data Structure Using C++
10EC666 – Digital System Design Using Verilog
10EC667- Virtual Instrumentation


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**SCHEME OF TEACHING AND EXAMINATION
B.E. ELECTRONICS AND COMMUNICATION**

VII Semester

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10EC71	Computer Communication Networks	EC	4	-	3	25	100	125
2	10EC72	Optical Fiber Communication	EC	4	-	3	25	100	125
3	10EC73	Power Electronics	EC	4	-	3	25	100	125
4	10EC74	Embedded System Design	EC	4	-	3	25	100	125
5	10EC75x	Elective-II (Group B)	EC	4	-	3	25	100	125
6	10EC76x	Elective-III (Group C)	EC	4	-	3	25	100	125
7	10ECL77	VLSI Lab	EC	-	3	3	25	50	75
8	10ECL78	Power Electronics Lab	EC	-	3	3	25	50	75
TOTAL				24	06	24	200	700	900

Elective-II (Group B)

10EC751 - DSP Algorithms & Architecture
10EC752 - Micro and Smart Systems Technology
10EC753 - Artificial Neural Network
10EC754 - CAD for VLSI
10EC755 - Applied Embedded System Design*
10EC756 - Speech Processing

Elective-III (Group C)

10EC761 - Programming in C++
10EC762 - Real Time Systems
10EC763 - Image Processing
10EC764 - Radio Frequency Integrated Circuits
10EC765 - Wavelet Transforms
10EC766 - Modeling and Simulation of Data Networks

NOTE: 06EC757 Applied Embedded System Design has a LAB component (syllabus is different and in the Theory Examination, questions from Lab experiments will also be there)


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**SCHEME OF TEACHING AND EXAMINATION
B.E. ELECTRONICS AND COMMUNICATION**

VIII SEMESTER

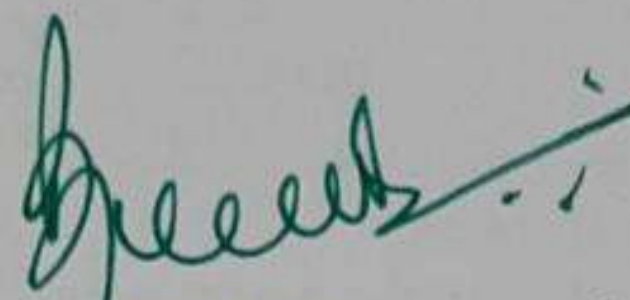
Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10EC81	Wireless Communication	EC	4	-	3	25	100	125
2	10EC82	Digital Switching System	EC	4	-	3	25	100	125
3	10EC83x	Elective-IV (Group D)	EC	4	-	3	25	100	125
4	10EC84x	Elective-V (Group E)	EC	4	-	3	25	100	125
5	10ECP85	Project Work	EC	-	6	3	100	100	200
6	10ECS86	Seminar	EC	-	3	-	50	-	50
TOTAL				16	09	15	250	500	750

Elective-IV (Group-D)

10EC831 – Distributed Systems
10EC832 – Network Security
10EC833 - Optical Networks
10EC834 – High Performance Computing Networks
10EC835 – Internet Engineering

Elective-V (Group-E)

10EE841 – Multimedia Communication
10EC842 – Real Time Operating Systems
10EC843 - GSM
10EC844 - Ad-hoc Wireless Networks
10EC845 – Optical Computing



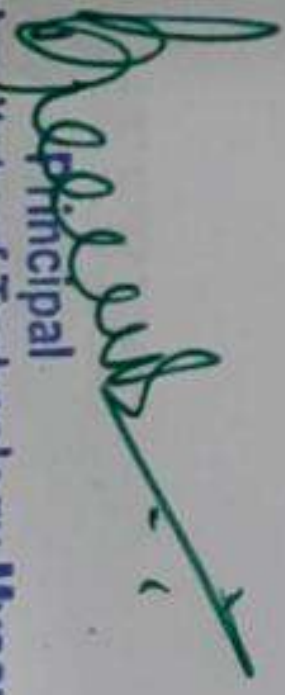
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**Scheme and Syllabus of Semesters III to VIII of B.E
(With effect from 2010-2011)**

Information Science and Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM


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SCHEME OF TEACHING AND EXAMINATION
B.E. INFORMATION SCIENCE AND ENGINEERING
(Common to CSE & ISE)

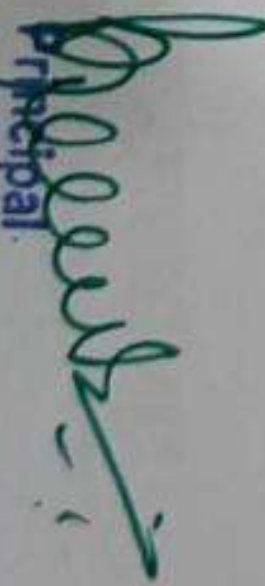
III SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		IA	Exam	Total
1	10MAT31	Engineering Mathematics - III	Mathematics	04	-	03	25	100	125
2	10CS32	Electronic Circuits	CSE/ISE	04	-	03	25	100	125
3	10CS33	Logic Design	CSE/ISE	04	-	03	25	100	125
4	10CS34	Discrete Mathematical Structures	CSE/ISE	04	-	03	25	100	125
5	10CS35	Data Structures with C/C++	CSE/ISE	04	-	03	25	100	125
6	10CS36	Object Oriented Programming with C++	CSE/ISE	04	-	03	25	100	125
7	10CSL37	Data Structures with C/C++ Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL38	Electronic Circuits & Logic Design Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

**SCHEME OF TEACHING AND EXAMINATION
B.E. INFORMATION SCIENCE AND ENGINEERING
(Common to CSE & ISE)**

IV SEMESTER

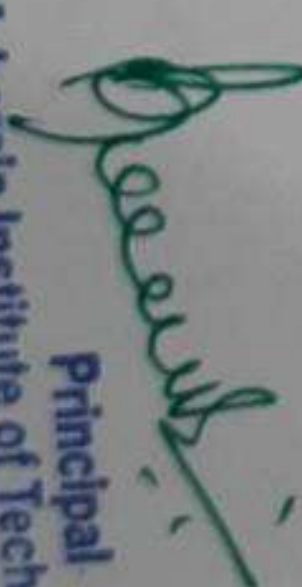
S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		Marks		
							IA	Exam	Total
1	10MAT41	Engineering Mathematics - IV	Maths	04	-	03	25	100	125
2	10CS42	Graph Theory and Combinatorics	CSE/ISE	04	-	03	25	100	125
3	10CS43	Design and Analysis of Algorithms	CSE/ISE	04	-	03	25	100	125
4	10CS44	Unix and Shell Programming	CSE/ISE	04	-	03	25	100	125
5	10CS45	Microprocessors	CSE/ISE	04	-	03	25	100	125
6	10CS46	Computer Organization	CSE/ISE	04	-	03	25	100	125
7	10CSL47	Design and Analysis of Algorithms Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL48	Microprocessors Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900


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SCHEME OF TEACHING AND EXAMINATION
B.E. INFORMATION SCIENCE AND ENGINEERING

V SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination Marks		
				Theory	Practical		IA	Exam	Total
1	10IS51	Software Engineering	CSE/ISE	04	-	03	25	100	125
2	10CS52	Systems Software	CSE/ISE	04	-	03	25	100	125
3	10CS53	Operating Systems	CSE/ISE	04	-	03	25	100	125
4	10CS54	Database Management Systems	CSE/ISE	04	-	03	25	100	125
5	10CS55	Computer Networks - I	CSE/ISE	04	-	03	25	100	125
6	10CS56	Formal Languages and Automata Theory	CSE/ISE	04	-	03	25	100	125
7	10CSL57	Database Applications Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL58	Systems Software & Operating Systems Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900


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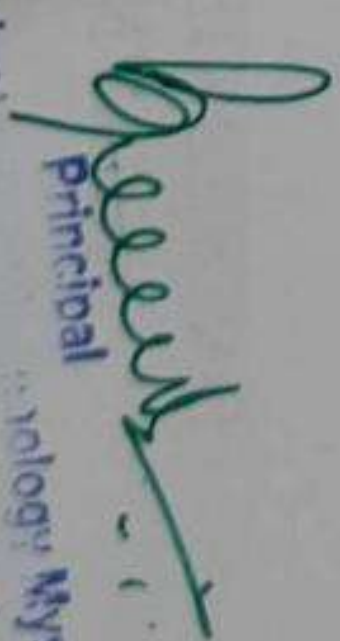
**SCHEME OF TEACHING AND EXAMINATION
B.E. INFORMATION SCIENCE AND ENGINEERING**

VI SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs /Week		Duration ⁿ (Hrs)	Examination Marks		
				Theory	Practical		IA	Exam	Total
1	10AL61	Management and Entrepreneurship	CSE/ISE/MB A	04	-	03	25	100	125
2	10CS62	Unix System Programming	CSE/ISE	04	-	03	25	100	125
3	10IS63	File Structures	CSE/ISE	04	-	03	25	100	125
4	10CS64	Computer Networks - II	CSE/ISE	04	-	03	25	100	125
5	10IS65	Software Testing	CSE/ISE	04	-	03	25	100	125
6	10IS66x	Elective I (Group-A)	CSE/ISE	04	-	03	25	100	125
7	10ISL67	File Structures Laboratory	CSE/ISE	-	03	03	25	50	75
8	10ISL68	Software Testing Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

Elective I – Group A

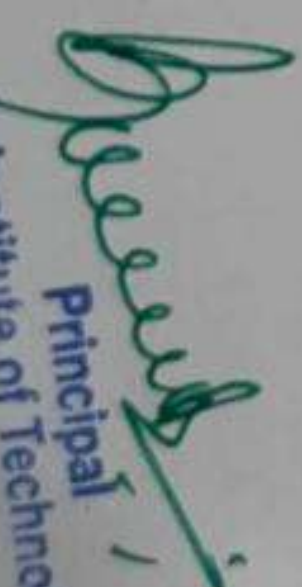
10IS661/10CS661	Operations Research
10IS662/10CS63	Compiler Design
10IS663/10CS663	Data Compression
10IS664/10CS664	Pattern Recognition
10IS665/10CS65	Computer Graphics and Visualization
10IS666/10CS666	Programming Languages


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VII SEMESTER

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination Marks		
				Theory	Practical		IA	Exam	Total
1	10CS71	Object Oriented Modeling and Design	CSE/ISE	04	-	03	25	100	125
2	10IS72	Information Systems	CSE/ISE	04	-	03	25	100	125
3	10CS73	Programming the Web	CSE/ISE	04	-	03	25	100	125
4	10IS74/ 10CS755	Data Warehousing and Data Mining	CSE/ISE	04	-	03	25	100	125
5	10IS75x	Elective II (Group-B)	CSE/ISE	04	-	03	25	100	125
6	10IS76x	Elective III(Group-C)	CSE/ISE	04	-	03	25	100	125
7	10CSL77	Networks Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL78	Web Programming Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

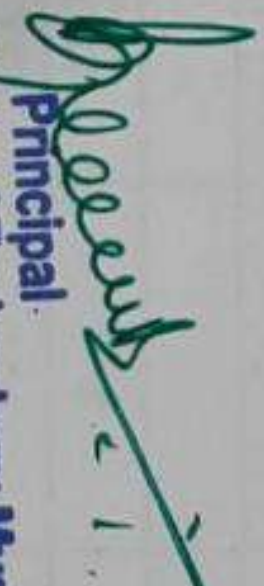

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Elective II – Group B

10IS751/10CS751	Advanced DBMS
10IS752/10CS72	Embedded Computing Systems
10IS753/10CS753	JAVA and J2EE
10IS754/10CS754	Multimedia Computing
10IS755	Advanced Software Engineering
10IS756/10CS756	Neural Networks

Elective III – Group C

10IS761/10CS761	C# Programming and .Net
10IS762/10CS762	Digital Image Processing
10IS763/10CS763	Game Theory
10IS764/10CS764	Artificial Intelligence
10IS765/10CS765	Storage Area Networks -
10IS766/10CS766	Fuzzy Logic



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VIII SEMESTER

SCHEME OF TEACHING AND EXAMINATION B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration	Examination Marks		
				Theory	Practical		IA	Exam	Total
1	10IS81	Software Architectures	CSE/ISE	04	-	03	25	100	125
2	10CS82	System Modeling and Simulation	CSE/ISE	04	-	03	25	100	125
3	10IS83x	Elective IV(Group-D)	CSE/ISE	04	-	03	25	100	125
4	10IS84x	Elective V(Group-E)	CSE/ISE	04	-	03	25	100	125
5	10IS85	Project Work	ISE		06	03	100	100	200
6	10IS86	Seminar	ISE		-	-	50	-	50
Total				16	06		250	500	750

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Maitraya

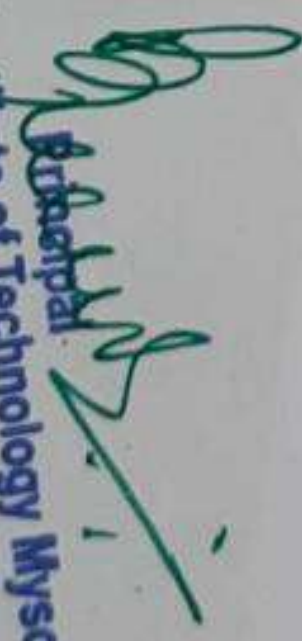
Elective IV – Group D

10IS831/10CCS831	Wireless Networks and Mobile Computing
10IS832/10CCS832	Web 2.0 and Rich Internet Applications
10IS833	User Interface Design
10IS834/10CCS834	Network Management Systems
10IS835/10CCS835	Information and Network Security
10IS836/10CCS836	Microcontroller-Based Systems

Elective V – Group E

10IS841/10CCS841	Ad-hoc Networks
10IS842	Information Retrieval
10IS843	Supply Chain Management
10IS844/10CCS844	Services Oriented Architecture
10IS845/10CCS845	Clouds, Grids and Clusters
10IS846	Decision Support Systems

NOTE: Students have to register for one Elective from each of the five Elective Group

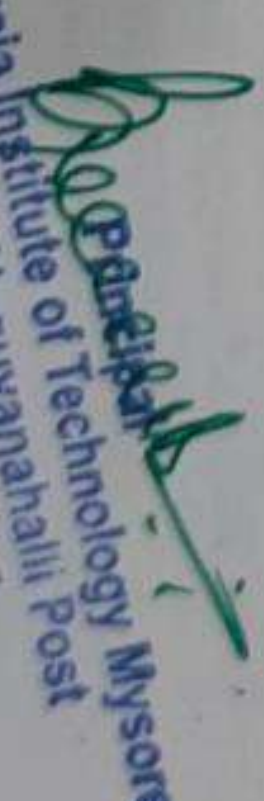

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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

SCHEME OF TEACHING AND EXAMINATION

III SEMESTER B.E. MECHANICAL

S.No.	Sub-Code	Title	Teaching Dept.	Teaching Hours / week		Examination				
				Theory	Pract. / Drg.	Duration	Max. I.A. Marks	Max. Theory /Pr.	Total marks	
1	10MAT31	Engg. Maths – III	Mathematics	04	--	03	25	100	125	
2	10ME32A/10ME32B	Material Sc. & Metallurgy / Mechanical Measurements & Metrology	Mechanical	04	--	03	25	100	125	
3	10ME33	Basic Thermodynamics	Mechanical	04	--	03	25	100	125	
4	10ME34	Mechanics of Materials	Mechanical	04	--	03	25	100	125	
5	10ME35	Manufacturing Process I	Mechanical	04	--	03	25	100	125	
6	10ME36A/10ME36B	Computer Aided Machine Drawing / Fluid Mechanics	Mechanical	01 04	03 --	03	25	100	125	
7	10MEL37A/10MEL37B	Metallography & Material Testing Lab / Mech. Measurements & Metrology Lab	Mechanical	--	03	03	25	50	75	
8	10MEL38A/10MEL38B	Foundry & Forging lab / Machine Shop	Mechanical	--	03	03	25	50	75	
III SEMESTER B.E. MECHANICAL				21/24	9	24	200	700	900	


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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

SCHEME OF TEACHING AND EXAMINATION

IV SEMESTER B.E. MECHANICAL


S.No.	Sub-Code	Title	Teaching Dept.	Teaching Hours / week		Examination				
				Theory	Pract. / Drg.	Duration	Max. I.A. Marks	Max. Theory /Pr.	Total marks	
1	10MAT41	Engg. Maths – IV	Mathematics	04	--	03	25	100	125	
2	10ME42A/10ME42B	Material Sc. & Metallurgy / Mechanical Measurements & Metrology	Mechanical	04	--	03	25	100	125	
3	10ME43	Applied Thermodynamics	Mechanical	04	--	03	25	100	125	
4	10ME44	Kinematics of Machines	Mechanical	04	--	03	25	100	125	
5	10ME45	Manufacturing Process II	Mechanical	04	--	03	25	100	125	
6	10ME46A/10ME46B	Computer Aided Machine Drawing / Fluid Mechanics	Mechanical	01 04	03 --	03	25	100	125	
7	10MEL47A/10MEL47B	Metallography & Material Testing Lab / Mech. Measurements & Metrology Lab	Mechanical	--	03	03	25	50	75	
8	10MEL48A/10MEL48B	Foundry & Forging lab / Machine Shop	Mechanical	--	03	03	25	50	75	
				21	09	24	200	700	900	

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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM
SCHEME OF TEACHING AND EXAMINATION
V SEMESTER B.E. MECHANICAL

S.No.	Sub-Code	Title	Teaching Hours/week		Examination			Total Marks
			Theory	Pract. / Drg.	Duration	Max. L.A. Marks	Max. Theory /Pr.	
1	10ME51	Management and Entrepreneurship	04	--	03	25	100	125
2	10ME52	Design of Machine Elements I	04	--	03	25	100	125
3	10ME53	Energy Engineering	04	--	03	25	100	125
4	10ME54	Dynamics of Machines	04	--	03	25	100	125
5	10ME55	Manufacturing Process III	04	--	03	25	100	125
6	10ME56	Turbo Machines	04	--	03	25	50	75
7	10MEL57	Fluid Mechanics & Machines Lab	--	03	03	25	50	75
8	10MEL58	Energy Conversion Engg. Lab	24	06	24	200	700	900


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SCHEME OF TEACHING AND EXAMINATION
VI SEMESTER B.E. MECHANICAL

S.No.	Sub-Code	Title	Teaching Hours/week		Examination				Total Marks
			Theory	Pract. ./ Drg.	Duration	Max. I.A. Marks	Max. Theory /Pr.		
1	10ME61	Computer Integrated Manufacturing	04	--	03	25	100	125	
2	10ME62	Design of Machine Elements II	04	--	03	25	100	125	
3	10ME63	Heat & Mass Transfer	04	--	03	25	100	125	
4	10ME64	Finite Element Methods	04	--	03	25	100	125	
5	10ME65	Mechatronics & □ P	04	--	03	25	100	125	
6	10ME66X	Elective 'A'	04	--	03	25	100	125	
7	10MEL67	Heat & Mass Transfer Lab	--	03	03	25	50	75	
8	10MEL68	CAMA Lab	--	03	03	25	50	75	
			24	06	24	200	700	900	

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Elective 'A'	
10ME661 Theory of Elasticity	10ME662 Mechanics of Composite Materials
10ME663 Refrigeration & Air Conditioning	10ME664 Design of Heat Exchangers
10ME665 Non Traditional Machining	10ME666 Knowledge Management
10ME667 Project Management	10ME668 Statistic Quality Control

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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

SCHEME OF TEACHING AND EXAMINATION VII SEMESTER B.E. MECHANICAL

S.No.	Sub-Code	Title	Teaching Hours/week		Examination			Total Marks
			Theory	Pract. / Drg.	Duration	Max. L.A. Marks	Max. Theory /Pr.	
1	10ME71	Engineering Economics	04	--	03	25	100	125
2	10ME72	Mechanical Vibrations	04	--	03	25	100	125
3	10ME73	Hydraulics and Pneumatics	04	--	03	25	100	125
4	10ME74	Operations Research	04	--	03	25	100	125
5	10ME75X	Elective B	04	--	03	25	100	125
6	10ME76X	Elective C	04	--	03	25	100	125
7	10MEL77	Design Lab	--	03	03	25	50	75
8	10MEL78	CIM and Automation Lab	--	03	03	25	50	75
9	10MEL79	Project Phase I	--	--	--	50	--	50
			24	06	24	250	700	950

Elective 'B'		Elective 'C'	
10ME751 Mechanism Design	10ME752 Theory of Plasticity	10ME761 Experimental Stress Analysis	10ME762 Tool Design
10ME753 Engineering Design	10ME754 Non Conventional Energy Sources	10ME763 Cryogenics	10ME764 Smart Materials
10ME755 Gas Dynamics	10ME756 Management Information System	10ME765 Agile Manufacturing	10ME766 Robotics
10ME757 Automation in Manufacturing	10ME758 Total Quality Management	10ME767 Finance management	10ME768 Micro & Smart System Technology

VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM
SCHEME OF TEACHING AND EXAMINATION
VIII SEMESTER B.E. MECHANICAL

S.No.	Sub-Code	Title	Teaching Hours/week		Examination			Total Marks
			Theory	Pract. / Drg.	Duration	Max. I.A. Marks	Max. Theory /Pr.	
1	10ME81	Operations Management	04	--	03	25	100	125
2	10ME82	Control Engineering	04	--	03	25	100	125
3	10ME83X	Elective D	04	--	03	25	100	125
4	10ME84X	Elective E	04	--	03	25	100	125
5	10ME85L	Project Work	--	06	03	100	100	200
6	10ME86L	Seminar	--	03	--	50	--	50
				09	15	250	500	750

Elective 'D'		Elective 'E'	
10ME831 Tribology	10ME832 Fracture Mechanics	10ME841 Machine Tool Design	10ME842 Industrial Engineering & Ergonomics
10ME833 Power Plant Engineering	10ME834 Nano Technology	10ME843 Bio Mass Energy Systems	10ME844 Automotive Engineering
10ME835 Organisational Behaviour and Professional Communication	10ME836 Computer Graphics	10ME845 Database Management System	10ME846 Artificial Intelligence
10ME837 Rapid Prototyping	10ME838 Foundry Technology	10ME847 Design of Experiments	10ME848 Design for Manufacture & Assembly

I SEMESTER B.E./B.Tech.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks		
						Th./Pr.	I.A.	Total
1	14MAT11	Engineering Maths-I	Maths	Basic Sc.	4 (T)	100	25	125
2	14CHE12	Engineering Chemistry	Chemistry	Basic Sc.	4 (T)	100	25	125
3	14PCD13	Programming in C & Data Structures	Any Engineering Department	CSE	4 (T)	100	25	125
4	14CED14	Computer Aided Engineering Drawing	Mech./IP/Auto/Mfg Engg./ IEM	Mech. Engg.	6 (2T + 4L)	100	25	125
5	14ELN15	Basic Electronics	E & C / E & E / TC / IT	E & C	4 (T)	100	25	125
6	14CPL16	Computer Programming Lab	Any Engineering Department	CSE	3 (L)	50	25	75
7	14CHEL17	Engg. Chemistry Lab	Chemistry	Basic Sc.	3 (L)	50	25	75
8	14CIV18	*Environmental Studies	Civil / Environmental	Civil	2 (T)	50	25	75
9		Language (Eng.)	Humanities		2 (T)	---	---	---
Total					32	**600	**175	775

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II SEMESTER B.E./B.Tech.


CHEMISTRY GROUP

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks		
						Th./Pr.	I.A.	Total
1	14MAT21	Engineering Maths-II	Maths	Basic Sc.	4 (T)	100	25	125
2	14CHE22	Engineering Chemistry	Chemistry	Basic Sc.	4 (T)	100	25	125
3	14PCD23	Programming in C & Data Structures	Any Engineering Department	CSE	4 (T)	100	25	125
4	14CED24	Computer Aided Engineering Drawing	Mech./IP/Auto/Mfg Engg./ IEM	Mech. Engg.	6 (2T + 4L)	100	25	125
5	14ELN25	Basic Electronics	E & C / E & E / TC / IT	E & C	4 (T)	100	25	125
6	14CPL26	Computer Programming Lab	Any Engineering Department	CSE	3 (L)	50	25	75
7	14CHEL27	Engg. Chemistry Lab	Chemistry	Basic Sc.	3 (3)	50	25	75
8	14CIV28	*Environmental Studies	Civil / Environmental	Civil	2 (T)	50	25	75
9		Language (Eng.)	Humanities		2 (T)	---	---	---
Total					32	**600	**175	775

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* CIP/Env.Engg. : Question Papers will be of Objective Type. Students have to pass the subject compulsorily, however marks will not be considered for awarding class / rank.
 **Excluding Environmental Studies/Constitution of India & Professional Ethics

Language (Kan./Eng.) – Audit Course


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B.E. CIVIL ENGINEERING

(Common to _____)

III SEMESTER

Sl. No	Subject Code	Title	Teaching Hours / Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT31	Engineering Mathematics – III	04		03	80	20	100	4
2	15CV32	Strength of Materials	04		03	80	20	100	4
3	15CV33	Fluid Mechanics	04		03	80	20	100	4
4	15CV34	Basic Surveying	04		03	80	20	100	4
5	15CV35	Engineering Geology	04		03	80	20	100	4
6	15CV36	Building Materials and Construction	04		03	80	20	100	4
7	15CVL37	Building Materials Testing Laboratory		1I+2P	03	80	20	100	2
8	15CVL38	Basic Surveying Practice		1I+2P	03	80	20	100	2
TOTAL			24	6	24	640	160	800	28

Note:

Core Subjects:	15CV31, 15CV32, 15CV33, 15CV34, 15CV35, 15CV36
Laboratory & Practice:	15CVL37, 15CVL38


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SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. CIVIL ENGINEERING

(Common to _____)

IV SEMESTER

Sl. No	Subject Code	Title	Teaching Hours / Week		Examination				Credits
			Theory	Practical / Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT31	Engineering Mathematics – IV	04		03	80	20	100	4
2	15CV42	Analysis of Determinate Structures	04		03	80	20	100	4
3	15CV43	Applied Hydraulics	04		03	80	20	100	4
4	15CV 44	Concrete Technology	04		03	80	20	100	4
5	15CV45	Basic Geotechnical Engineering	04		03	80	20	100	4
6	15CV46	Advanced Surveying	04		03	80	20	100	4
7	15CVL47	Fluid Mechanics Laboratory		1I+2P	03	80	20	100	2
8	15CVL48	Engineering Geology Laboratory		1I+2P	03	80	20	100	2
TOTAL			24	06	24	640	160	800	28

Note:

Core Subjects:	15CV 41, 15CV42, 15CV43, 15CV 44, 15CV45, 15CV46
Laboratory & Practice:	15CVL47, 15CVL48

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B.E. CIVIL ENGINEERING

V SEMESTER

Sl. No.	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CV51	Design of RC Structural Elements	04		03	80	20	100	4
2	15CV52	Analysis of Indeterminate Structures	04		03	80	20	100	4
3	15CV53	Applied Geotechnical Engineering	04		03	80	20	100	4
4	15CV54	Computer Aided Building Planning and Drawing	01	3D	03	80	20	100	4
5	15CV55X	Professional Elective-1	03		03	80	20	100	3
6	15CV56X	Open Elective-1	03		03	80	20	100	3
7	15CVL57	Geotechnical Engineering Laboratory		1I+2P	03	80	20	100	2
8	15CVL58	Concrete and Highway Materials Laboratory		1I+2P	03	80	20	100	2
TOTAL			19	09	24	640	160	800	26

Professional Elective 1		Open Elective 1	
15CV551	Air pollution and Control	15CV561	Traffic Engineering
15CV552	Railways, Harbours, tunneling and Airports	15CV562	Sustainability Concepts in Engineering
15CV553	Masonry Structures	15CV563	Remote Sensing and GIS
15CV554	Theory of Elasticity	15CV564	Occupational Health and Safety
		15NC565	NCC

1. **Professional Elective:** Elective relevant to chosen specialization/ branch
2. **Open Elective:** Electives from other technical and/or emerging subject areas


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B.E. CIVIL ENGINEERING

VI SEMESTER			Teaching Hours /Week		Examination				Credits
Sl. No.	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CV61	Construction Management and Entrepreneurship	04		03	80	20	100	4
2	15CV62	Design of Steel Structural Elements	04		03	80	20	100	4
3	15CV63	Highway Engineering	04		03	80	20	100	4
4	15CV64	Water Supply and Treatment Engineering	04		03	80	20	100	4
5	15CV65X	Professional Elective 2	03		03	80	20	100	3
6	15CV66X	Open Elective 2	03		03	80	20	100	3
7	15CVL67	Software Application Lab		1I+2P	03	80	20	100	2
8	15CVP68	Extensive Survey Project /Camp		1I+2P	03	80	20	100	2
TOTAL			22	6	24	640	160	800	26

Professional Elective-2		Open Elective-2	
15CV651	Solid Waste Management	15CV661	Water Resource Management
15CV652	Matrix Method of Structural Analysis	15CV662	Environmental Protection and Management
15CV653	Alternative Building Materials	15CV663	Numerical Methods and applications
15CV654	Ground Improvement Techniques	15CV664	Finite Element Analysis


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SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. CIVIL ENGINEERING

VII SEMESTER

Sl. No.	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CV71	Municipal and Industrial Waste Water Engineering	04		03	20	80	100	4
2	15CV72	Design of RCC and Steel Structures	04		03	20	80	100	4
3	15CV73	Hydrology and Irrigation Engineering	04		03	20	80	100	4
4	15CV74X	Professional Elective 3	03		03	20	80	100	3
5	15CV75X	Professional Elective 4	03		03	20	80	100	3
6	15CVL76	Environmental Engineering Laboratory		1I+2P	03	20	80	100	2
7	15CVL77	Computer Aided Detailing of Structures		1I+2D	03	20	80	100	2
8	15CVP78	Project Phase I +Project Seminar		3		100		100	2
TOTAL			18	9	21	240	560	800	24

Professional Elective 3		Professional Elective 4	
15CV741	Design of Bridges	15CV751	Urban Transportation and Planning
15CV742	Ground Water & Hydraulics	15CV752	Prefabricated Structures
15CV743	Design Concept of Building Services	15CV753	Rehabilitation and Retrofitting of Structures
15CV744	Structural Dynamics	15CV754	Reinforced Earth Structures

1. Project Phase-I + Seminar: Literature Survey, Problem Identification, objectives and Methodology, Submission of synopsis and seminar

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SCHEME OF TEACHING AND EXAMINATION 2015-2016
B.E. CIVIL ENGINEERING

VIII SEMESTER

Sl. No.	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CV81	Quantity Surveying and Contracts Management	4	-	3	20	80	100	4
2	15CV82	Design of Pre Stressed Concrete Elements	4	-	3	20	80	100	4
3	15CV83X	Professional Elective 5	3	-	3	20	80	100	3
4	15CV84	Internship/Professional Practice	Industry Oriented		3	50	50	100	2
5	15CVP85	Project Work	-	6	3	100	100	200	6
6	15CVS86	Seminar on current trends in Engineering and Technology	-	4	-	100	-	100	1
TOTAL			11	10	15	310	390	700	20

Professional Elective 5	
15CV831	Earthquake Engineering
15CV832	Hydraulic Structures
15CV833	Pavement Design
15CV834	Advanced Foundation Design


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SCHEME OF TEACHING AND EXAMINATION
B.E Electronics & Communication Engineering / Telecommunication Engineering
(Common to Electronics & Communication and Telecommunication Engineering)

III SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT31	Engineering Mathematics -III*	04		03	80	20	100	4
2	15EC32	Analog Electronics	04		03	80	20	100	4
3	15EC33	Digital Electronics	04		03	80	20	100	4
4	15EC34	Network Analysis	04		03	80	20	100	4
5	15EC35	Electronic Instrumentation	04		03	80	20	100	4
6	15EC36	Engineering Electromagnetics	04		03	80	20	100	4
7	15ECL37	Analog Electronics Lab		1I+2P	03	80	20	100	2
8	15ECL38	Digital Electronics Lab		1I+2P	03	80	20	100	2
TOTAL			24	6	24	640	160	800	28

*Additional course for Lateral entry students only:

1	15MATDIP31	Additional Mathematics - I	03		03	80	--	80	--
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SCHEME OF TEACHING AND EXAMINATION
B.E Electronics & Communication Engineering / Telecommunication Engineering
(Common to Electronics & Communication and Telecommunication Engineering)

IV SEMESTER

Sl. No	Subject Code	Title	Teaching Hours / Week		Examination				Credits
			Theory	Practical / Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT41	Engineering Mathematics -IV*	04		03	80	20	100	4
2	15EC42	Microprocessor	04		03	80	20	100	4
3	15EC43	Control Systems	04		03	80	20	100	4
4	15EC44	Signals and Systems	04		03	80	20	100	4
5	15EC45	Principles of Communication Systems	04		03	80	20	100	4
6	15EC46	Linear Integrated Circuits	04		03	80	20	100	4
7	15ECL47	Microprocessor Lab		1I+2P	03	80	20	100	2
8	15ECL48	Linear ICs and Communication Lab		1I+2P	03	80	20	100	2
TOTAL			24	06	24	640	160	800	28

*Additional course for Lateral entry students only:

1	15MATDIP41	Additional Mathematics - II	03		03	80	--	80	--
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SCHEME OF TEACHING AND EXAMINATION
B.E.: Electronics & Communication Engineering

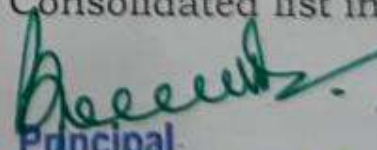
V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical /Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ES51	Management and Entrepreneurship Development	04		03	80	20	100	4
2	15EC52	Digital Signal Processing	04		03	80	20	100	4
3	15EC53	Verilog HDL	04		03	80	20	100	4
4	15EC54	Information Theory & Coding	04		03	80	20	100	4
5	15EC55X	Professional Elective-1	03		03	80	20	100	3
6	15EC56X	Open Elective-1	03		03	80	20	100	3
7	15ECL57	DSP Lab		1I+2P	03	80	20	100	2
8	15ECL58	HDL Lab		1I+2P	03	80	20	100	2
TOTAL			22	06	24	640	160	800	26

Professional Elective-1		Open Elective - 1* (List offered by EC/TC Board only)	
15EC551	Nanoelectronics	15EC561	Automotive Electronics
15EC552	Switching & Finite Automata Theory	15EC562	Object Oriented Programming Using C++
15EC553	Operating System	15EC563	8051 Microcontroller
15EC554	Electrical Engineering Materials		
15EC555	MSP430 Microcontroller		

1. **Professional Elective:** Elective relevant to chosen specialization/ branch.

2. * **Open Elective List:** For other Open Electives offered by other Boards, refer the Scheme of other Boards or Consolidated list in VTU Website.


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SCHEME OF TEACHING AND EXAMINATION
B.E.: Electronics & Communication Engineering

VI SEMESTER

Sl. No	Subject Code	Title	Teaching Hours / Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15EC61	Digital Communication	04		03	80	20	100	4
2	15EC62	ARM Microcontroller & Embedded Systems	04		03	80	20	100	4
3	15EC63	VLSI Design	04		03	80	20	100	4
4	15EC64	Computer Communication Networks	04		03	80	20	100	4
5	15EC65X	Professional Elective-2	03		03	80	20	100	3
6	15EC66X	Open Elective-2	03		03	80	20	100	3
7	15ECL67	Embedded Controller Lab		1I+2P	03	80	20	100	2
8	15ECL68	Computer Networks Lab		1I+2P	03	80	20	100	2
TOTAL			22	6	24	640	160	800	26

Professional Elective-2		Open Elective - 2* (List offered by EC/TC Board only)	
15EC651	Cellular Mobile Communication	15EC661	Data Structures Using C++
15EC652	Adaptive Signal Processing	15EC662	Power Electronics
15EC653	Artificial Neural Networks	15EC663	Digital System Design using Verilog
15EC654	Digital Switching Systems		
15EC655	Microelectronics		

1. **Professional Elective:** Elective relevant to chosen specialization/branch.

2. *** Open Elective List:** For other Open Electives offered by other Boards, refer the Scheme of other Boards or Consolidated list in VTU Website.

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Mandya District - 571477

SCHEME OF TEACHING AND EXAMINATION
B.E.: Electronics & Communication Engineering

VII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours / Week		Examination				15EC
			Theory	Practical/Drawing	Duration	I.A. Marks	Theory/Practical Marks	Total Marks	
1	15EC71	Microwave and Antennas	04		03	20	80	100	4
2	15EC72	Digital Image Processing	04		03	20	80	100	4
3	15EC73	Power Electronics	04		03	20	80	100	4
4	15XX74X	Professional Elective-3	03		03	20	80	100	3
5	15EC75X	Professional Elective-4	03		03	20	80	100	3
6	15ECL76	Advanced Communication Lab		1I+2P	03	20	80	100	2
7	15ECL77	VLSI Lab		1I+2P	03	20	80	100	2
8	15ECP78	Project Work Phase-I + Project work Seminar		03		100	-	100	2
TOTAL			18	09	21	240	560	800	24

Professional Elective-3		Professional Elective-4	
15EC741	Multimedia Communication	15EC751	DSP Algorithms and Architecture
15EC742	Biomedical Signal Processing	15EC752	IoT and Wireless Sensor Networks
15EC743	Real Time Systems	15EC753	Pattern Recognition
15EC744	Cryptography	15EC754	Advanced Computer Architecture
15EC745	CAD for VLSI	15EC755	Satellite Communication

1. Project Phase -I + Project Work Seminar: Literature Survey, Problem Identification, Objectives and Methodology. Submission of Synopsis and Seminar.


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SCHEME OF TEACHING AND EXAMINATION
B.E.: Electronics & Communication Engineering

VIII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15EC81	Wireless Cellular and LTE 4G Broadband	4	-	3	20	80	100	4
2	15EC82	Fiber Optics & Networks	4	-	3	20	80	100	4
3	15EC83X	Professional Elective-5	3	-	3	20	80	100	3
4	15EC84	Internship/Professional Practice	Industry Oriented		3	50	50	100	2
5	15ECP85	Project Work	-	6	3	100	100	200	6
6	15ECS86	Seminar	-	4	-	100	-	100	1
TOTAL			11	10	15	310	390	700	20

Professional Elective -5

15EC831	Micro Electro Mechanical Systems
15EC832	Speech Processing
15EC833	Radar Engineering
15EC834	Machine learning
15EC835	Network and Cyber Security


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1. Internship / Professional Practice: To be carried between the (6th and 7th Semester) or (7th and 8th) Semester Vacation period.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. Computer Science & Engineering/ B.E. Information Science & Engineering

III SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Duration	Examination			Credits
			Theory	Practical/ Drawing		Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT31	Engineering Mathematics - III	04	--	03	80	20	100	4
2	15CS32	Analog and Digital Electronics	04	--	03	80	20	100	4
3	15CS33	Data Structures and Applications	04	--	03	80	20	100	4
4	15CS34	Computer Organization	04	--	03	80	20	100	4
5	15CS35	Unix and Shell Programming	04	--	03	80	20	100	4
6	15CS36	Discrete Mathematical Structures	04	--	03	80	20	100	4
7	15CSL37	Analog and Digital Electronics Laboratory	--	1I+2P	03	80	20	100	2
8	15CSL38	Data Structures Laboratory	--	1I+2P	03	80	20	100	2
TOTAL			24	6	24	640	160	800	28

Note: 'I' Stands for Instruction Hours and 'P' for practical Hours


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. Computer Science & Engineering/ B.E. Information Science & Engineering

IV SEMESTER			Teaching Hours /Week		Examination				Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT41	Engineering Mathematics - IV	04	--	03	80	20	100	4
2	15CS 42	Software Engineering	04	--	03	80	20	100	4
3	15CS43	Design and Analysis of Algorithms	04	--	03	80	20	100	4
4	15CS 44	Microprocessors and Microcontrollers	04	--	03	80	20	100	4
5	15CS45	Object Oriented Concepts	04	--	03	80	20	100	4
6	15CS46	Data Communication	04	--	03	80	20	100	4
7	15CSL47	Design and Analysis of Algorithm Laboratory	--	1I+2P	03	80	20	100	2
8	15CSL48	Microprocessors Laboratory	--	1I+2P	03	80	20	100	2
TOTAL			24	06	24	640	160	800	28

Note: 'I' Stands for Instruction Hours and 'P' for practical Hours

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016
 B.E. Information Science & Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CS51	Management and Entrepreneurship for IT industry	04	--	03	80	20	100	4
2	15CS52	Computer Networks	04	--	03	80	20	100	4
3	15CS53	Database Management System	04	--	03	80	20	100	4
4	15CS54	Automata theory and Computability	04	--	03	80	20	100	4
5	15CS/IS55x	Professional Elective 1	03	--	03	80	20	100	3
6	15CS56x	Open Elective 1	03	--	03	80	20	100	3
7	15CSL57	Computer Network Laboratory	--	11+2P	03	80	20	100	2
8	15CSL58	DBMS Laboratory with mini project	--	11+2P	03	80	20	100	2
TOTAL			22	6	24	640	160	800	26

Professional Elective 1	
15CS551	Object Oriented Modeling and Design
15IS552	Social Network Analysis
15CS553	Advanced JAVA and J2EE
15IS554	Programming Languages

1. Professional Elective: Electives relevant to choosen specialization / branch
2. Open Elective: Electives from other technical and/or emerging subject areas (Announced separately)

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016
 B.E. Information Science & Engineering

B.E. Information Science & Engineering									
VI SEMESTER			Teaching Hours /Week		Examination				Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CS61	Cryptography, Network Security and Cyber Law	04	--	03	80	20	100	4
2	15IS62	File Structures	04	--	03	80	20	100	4
3	15IS63	Software Testing	04	--	03	80	20	100	4
4	15CS64	Operating Systems	04	--	03	80	20	100	4
5	15CS/IS65x	Professional Elective 2	03	--	03	80	20	100	3
6	15CS/IS66x	Open Elective 2	03	--	03	80	20	100	3
7	15ISL67	Software Testing Laboratory	--	1I+2P	03	80	20	100	2
8	15ISL68	File Structures Laboratory with mini project	--	1I+2P	03	80	20	100	2
TOTAL			22	06	24	640	160	800	26

Professional Elective 2	
15CS651	Data Mining and Data Warehousing
15IS652	System Software
15CS653	Operation research
15CS654	Distributed Computing system

1. Professional Elective: Electives relevant to choosen specialization / branch
2. Open Elective: Electives from other technical and/or emerging subject areas (Announced separately)

Green

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016
 B.E. Computer Science & Engineering

VII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CS71	Web Technology and its applications	04	--	03	20	80	100	4
2	15CS72	Advanced Computer Architectures	04	--	03	20	80	100	4
3	15CS73	Machine Learning	04	--	03	20	80	100	4
4	15CS74x	Professional Elective 3	03	--	03	20	80	100	3
5	15CS75x	Professional Elective 4	03	--	03	20	80	100	3
6	15CSL76	Machine Learning Laboratory	--	1I+2P	03	20	80	100	2
7	15CSL77	Web Technology Laboratory with mini project	--	1I+2P	03	20	80	100	2
8	15CSP78	Project Phase 1 + Seminar	--	--	--	100	--	100	2
TOTAL			18	6	21	240	560	800	24

Professional Elective 3		Professional Elective 4	
15CS741	Natural Language Processing	15CS751	Soft and Evolutionary Computing
15CS742	Cloud Computing and its Applications	15CS752	Computer Vision and Robotics
15CS743	Information and Network Security	15CS753	Digital Image Processing
15CS744	Unix System Programming	15CS754	Storage Area Networks

- Professional Elective: Electives relevant to chosen specialization / branch
- Project Phase 1 + Seminar : Literature Survey, Problem Identification, Objectives and Methodology, Submission of Synopsis and Seminar

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. Computer Science & Engineering
VIII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CS81	Internet of Things and Applications	4	--	3	20	80	100	4
2	15CS82	Big Data Analytics	4	--	3	20	80	100	4
3	15CS83x	Professional Elective 5	3	--	3	20	80	100	3
4	15CS84	Internship / Professional Practice	Industry Oriented		3	50	50	100	2
5	15CSP85	Project work phase II	--	6	3	100	100	200	5
6	15CSS86	Seminar	--	4	--	100	--	100	2
TOTAL			11	10	15	310	390	700	20

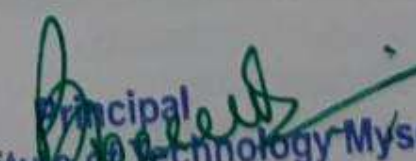
Professional Elective 5	
15CS831	High Performance Computing
15CS832	User Interface Design
15CS833	Network management
15CS834	System Modeling and Simulation

1. Professional Elective: Electives relevant to chosen specialization / branch
2. Internship / Professional Practice: To be carried out between 6th and 7th semester vacation or 7th and 8th semester vacation period

B.E. Mechanical Engineering

IV SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT41	Engineering Mathematics – III	04			03	80	20	100	04
2	15ME42	Kinematics of Machinery	03	02		03	80	20	100	04
3	15ME43	Applied Thermodynamics	03	02		03	80	20	100	04
4	15ME44	Fluid mechanics	03	02		03	80	20	100	04
5	15ME45A/	Metal Casting and Welding	04			03	80	20	100	04
	15ME45B	Machine Tools and Operations								
6	15ME46 A/	Computer Aided Machine Drawing	02		4	03	80	20	100	03
	15ME46B	Mechanical Measurements and Metrology	04							
7	15MEL47A /	Materials Testing Lab/	1		2	03	80	20	100	02
	15MEL47B	Mechanical Measurements and Metrology Lab								
8	15MEL48A /	Foundry and Forging Lab	1		2	03	80	20	100	02
	15MEL48B	Machine Shop/								
TOTAL			19/21	06	08/04		640	160	800	27


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B.E. Mechanical Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ME51	Management and Engineering Economics	3	2	0	03	80	20	100	4
2	15ME52	Dynamics of Machinery	3	2	0	03	80	20	100	4
3	15ME53	Turbo Machines	3	2	0	03	80	20	100	4
4	15ME54	Design of Machine Elements - I	3	2	0	03	80	20	100	4
5	15ME55X	Professional Elective-I	3	0	0	03	80	20	100	3
6	15ME56X	Open Elective-I	3	0	0	03	80	20	100	3
7	15MEL57	Fluid Mechanics & Machinery Lab	1	0	2	03	80	20	100	2
8	15MEL58	Energy Lab	1	0	2	03	80	20	100	2
TOTAL			21	06	04		640	160	800	26

Professional Elective-I		Open Elective-I	
15ME551	Refrigeration and Air-conditioning	15ME561	Optimization Techniques
15ME552	Theory of Elasticity	15ME562	Energy and Environment
15ME553	Human Resource Management	15ME563	Automation and Robotics
15ME554	Non Traditional Machining	15ME564	Project Managemet

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. OpenElective:** Electives from other technical and/or emerging subject areas.


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B.E. Mechanical Engineering

VI SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ME61	Finite Element Analysis	3	2	0	03	80	20	100	4
2	15ME62	Computer integrated Manufacturing	4	0	0	03	80	20	100	4
3	15ME63	Heat Transfer	3	2	0	03	80	20	100	4
4	15ME64	Design of Machine Elements -II	3	2	0	03	80	20	100	4
5	15ME65X	Professional Elective-II	3	0	0	03	80	20	100	3
6	15ME66X	Open Elective-II	3	0	0	03	80	20	100	3
7	15MEL67	Heat Transfer Lab	1	0	2	03	80	20	100	2
8	15MEL68	Modeling and Analysis Lab(FEA)	1	0	2	03	80	20	100	2
TOTAL			21	6	04		640	160	800	26

Professional Elective-II		Open Elective-II	
15ME651	Computational Fluid Dynamics	15ME661	Energy Auditing
15ME652	Mechanics of Composite Materials	15ME662	Industrial Safety
15ME653	Metal Forming	15ME663	Maintenance Engineering
15ME654	Tool Design	15ME664	Total Quality Management
15ME655	Automobile Engineering		

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. OpenElective:** Electives from other technical and/or emerging subject areas.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. Mechanical Engineering

VIII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ME81	Operations Research	3	2	0	03	80	20	100	4
2	15ME82	Additive Manufacturing	4	0	0	03	80	20	100	4
3	15ME83X	Professional Elective - V	3	0	0	03	80	20	100	3
4	15ME84	Internship / Professional Practice	Industry Oriented			03	50	50	100	2
5	15ME85	Project Phase – II	-	6	-	03	100	100	200	6
6	15MES86	Seminar	-	4	-	-	-	100	100	1
TOTAL			10	12	-		390	310	700	20

Professional Elective-V	
15ME831	Cryogenics
15ME832	Experimental Stress Analysis
15ME833	Theory of Plasticity
15ME834	Green Manufacturing
15ME835	Product life cycle management

- Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- Professional Elective:** Elective relevant to chosen specialization/ branch
- Internship / Professional Practice:** To be carried out between 6th & 7th semester vacation or 7th & 8th semester vacation.


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Visvesvaraya Technological University, Belagavi

REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E./B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) Effective from the academic year 2017-18

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
I SEMESTER B.E./B.Tech. (PHYSICS GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours /V %		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIS Marks	Total Marks	
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE17	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01 Hour Instruction 02 Hour Practical		03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01 Hour Instruction 02 Hour Practical		03	60	40	100	2
8	17ENG18	Language – English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
TOTAL					Theory: 21 hours Practical: 06 hours		21	420	280	700	24
II SEMESTER B.E./B.Tech. (CHEMISTRY GROUP)											
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02 Hour Instruction 04- Hour Practice		03	60	40	100	4
5	17ELN25	Basic Electronics	ECE/EEE/TC/E and I	E and C Engineering	04	--	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01 Hour Tutorial 02 Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01 Hour Tutorial 02 Hour Practical		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01 Tutorial		--	30	20	50	--
TOTAL					Theory: 21 hours Practical: 08 hours		21	450	300	750	24

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Mandya District - 571477

Visvesvaraya Technological University, Belagavi
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E./B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
I SEMESTER B.E./B.Tech (CHEMISTRY GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE12	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD13	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED14	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour Instruction 04Hour Practice		03	60	40	100	4
5	17ELN17	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04	--	03	60	40	100	4
6	17CPL16	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL17	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2
8	17CIV18	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01HourTutorial		--	30	20	50	--
TOTAL					Theory:21 hours Practical: 08 hours		21	450	300	750	24
II SEMESTER B.E./B.Tech (PHYSICS GROUP)											
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY22	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV23	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME24	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE25	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL26	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17PHYL27	Engineering Physics Laboratory	Physics	Basic Science	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ENG28	Language - English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
TOTAL					Theory:21 hours Practical: 06 hours		21	420	280	700	24

Visvesvaraya Technological University, Belagavi
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

B.E./B.Tech

III SEMESTER

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Core Course	Engineering Mathematics-III		04	--	03	60	40	100	4
2	17XX32	Core Course			04	--	03	60	40	100	4
3	17XX33	Core Course			04	--	03	60	40	100	4
4	17XX34	Core Course			04	--	03	60	40	100	4
5	17XX35	Core Course			04	--	03	60	40	100	4
6	17XX36	Foundation Course			03	--	03	60	40	100	3
7	17XXL37	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL38	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL					Theory: 24 hours Practical: 06 hours		25	510	340	850	28

1. Core Course: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Foundation Course: The courses based upon the content that leads to Knowledge enhancement.

3. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

4. Audit Course:

(i) All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I which is 03 contact hours per week.

1	17MATDIP31	Additional Mathematics – I	03		03	60	-	60	-
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

Visvesvaraya Technological University, Belagavi
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
 Effective from the academic year 2017-18

Annexure -1 (page -4)

Annexure - I (page 1)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E./B.Tech _____

IV SEMESTER											
Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Core Course	Engineering Mathematics-IV		04	-	03	60	40	100	4
2	17XX42	Core Course			04	-	03	60	40	100	4
3	17XX43	Core Course			04	-	03	60	40	100	4
4	17XX44	Core Course			04	-	03	60	40	100	4
5	17XX45	Core Course			04	-	03	60	40	100	4
6	17XX46	Foundation Course			03	-	03	60	40	100	3
7	17XXL47	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL48	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL					Theory:24hours Practical: 06 hours		25	510	340	850	28

1. **Core Course:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. **Foundation Course:** The courses based upon the content that leads to Knowledge enhancement.

3. **Kannada/Constitution of India, Professional Ethics and Human Rights:** 50 % of the programs of the Institution have to teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

4. **Audit Course:**

(i) All lateral entry students (except B. Sc candidates) have to register for Additional Mathematics - II which is 03 contact hours per week.

1	17MATDIP41	Additional Mathamatics - II	03		03	60	-	60	-
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

Visvesvaraya Technological University, Belagavi
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18

Annexure -1 (page -5)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

B.E/B.Tech

V SEMESTER											
Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX51	Core Course	Management and Entrepreneurship Excluding CSE, ISE and EV Programs. (The course must be related to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement).		04	-	03	60	40	100	4
2	17XX52	Core Course			04	-	03	60	40	100	4
3	17XX53	Core Course			04	-	03	60	40	100	4
4	17XX54	Core Course			04	-	03	60	40	100	4
5	17XX55X	Professional Elective			03	-	03	60	40	100	3
6	17XX56Y	Open Elective			03	-	03	60	40	100	3
7	17XX57	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XX58	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL					Theory: 22 hours Practical: 06 hours		24	480	320	100	26

Electives

Professional Elective		Open Elective ^{***} Offered by the Department of _____	
Courses under Code 17XX55X	Course Title	Courses under Code 17XX56Y	Course Title
17XX551		17XX561	
17XX552		17XX562	
17XX553		17XX563	
17XX554		17XX564	

^{***} Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if;

- The candidate has no pre-requisite knowledge.
- The candidate has studied similar content course during previous semesters.
- The syllabus content of open elective is similar to that of Departmental core course(s) or to be studied professional elective(s).

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Electives relevant to chosen specialization/ branch.

3. Open Elective: Electives from other technical and/ or emerging subject areas.

Visvesvaraya Technological University, Belagavi
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18

Annexure -1 (page -6)

Annexure - I (page - 5)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E./B.Tech _____

VI SEMESTER											
Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX61	Core Course	Management and Entrepreneurship Excluding CSE, ISE and EV Programs. (The course must be related to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement).		04	--	03	60	40	100	4
2	17XX62	Core Course			04	--	03	60	40	100	4
3	17XX63	Core Course			04	--	03	60	40	100	4
4	17XX64	Core Course			04	--	03	60	40	100	4
5	17XX65X	Professional Elective			03	--	03	60	40	100	3
6	17XX66Y	Open Elective			03	--	03	60	40	100	3
7	17XXL67	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL68	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL					Theory: 22 hours Practical: 06 hours		24	480	320	800	26

Electives

Professional Elective		Open Elective ^{***} Offered by the Department of _____	
Courses under Code 17XX65X	Course Title	Courses under Code 17XX66Y	Course Title
17XX651		17XX661	
17XX652		17XX662	
17XX653		17XX663	
17XX654		17XX664	

*** Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if;

- The candidate has no pre-requisite knowledge.
- The candidate has studied similar content course during previous semesters.
- The syllabus content of open elective is similar to that of Departmental core course(s) or to be studied professional elective(s).

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

1. **Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. **Professional Elective:** Electives relevant to chosen specialization/ branch.

3. **Open Elective:** Electives from other technical and/ or emerging subject areas.

Visvesvaraya Technological University, Belagavi
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18

Annexure -1 (page -8)

Annexure I (page 5)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
B.E./B.Tech _____											
VIII SEMESTER											
Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX81	Core Course			04	--	03	60	40	100	4
2	17XX82	Core Course			04	--	03	60	40	100	4
3	17XX83X	Professional Elective			03	--	03	60	40	100	3
4	17XX84	Core Course	Internship/ Professional Practice		Working hours of the place of Internship		03	50	50	100	2
5	17XX85	Core Course	Project work Phase -II		--	06	03	100	100	200	6
6	17XX86	Core Course	Technical Seminar		--	04	--	--	100	100	1
TOTAL					Theory:11 hours Project and Seminar: 10 hours		15	390	310	700	20
Professional Electives											
Courses under Code 17XX83X		Course Title									
17XX831											
17XX832											
17XX833											
17XX834											
1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study. 2. Professional Elective: Electives relevant to chosen specialization/ branch. 3. Internship/ Professional Practice: To be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period for 4 weeks											




Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

III SEMESTER

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics –III*	Maths	04		03	60	40	100	4
2	17CV32	Strength of Materials	Civil Engg.	04		03	60	40	100	4
3	17CV33	Fluid Mechanics	Civil Engg.	04		03	60	40	100	4
4	17CV34	Basic Surveying	Civil Engg.	04		03	60	40	100	4
5	17CV35	Engineering Geology	Civil Engg.	04		03	60	40	100	3
6	17CV36	Building Materials and Construction	Civil Engg.	03		03	60	40	100	4
7	17CVL37	Building Materials Testing Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVL38	Basic Surveying Practice	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. **Kannada/Constitution of India, Professional Ethics and Human Rights:** 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I, which is 03 contact hours per week.

1	17MATDIP31	Additional Mathematics –I	Maths	03		03	60	--	60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)


Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

IV SEMESTER

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics –IV*	Maths	04		03	60	40	100	4
2	17CV42	Analysis of Determinate Structures	Civil Engg.	04		03	60	40	100	3
3	17CV43	Applied Hydraulics	Civil Engg.	04		03	60	40	100	4
4	17CV44	Concrete Technology	Civil Engg.	04		03	60	40	100	4
5	17CV45	Basic Geotechnical Engineering	Civil Engg.	04		03	60	40	100	4
6	17CV46	Advanced Surveying	Civil Engg.	03		03	60	40	100	4
7	17CVL47	Fluid Mechanics Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVL48	Engineering Geology Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2.Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – II, which is 03 contact hours per week.

1	17MATDIP41	Additional Mathematics –II	Maths	03		03	60	--	60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

Principal
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

V SEMESTER

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV51	Design of RC Structural Elements	Civil Engg.	04		03	60	40	100	4
2	17CV52	Analysis of Indeterminate Structures	Civil Engg.	04		03	60	40	100	4
3	17CV53	Applied Geotechnical Engineering	Civil Engg.	04		03	60	40	100	4
4	17CV54	Computer Aided Building Planning and Drawing	Civil Engg.	04		03	60	40	100	4
5	17CV55X	Professional Elective-1	Civil Engg.	03		03	60	40	100	3
6	17CV56X	Open Elective-1	Civil Engg.	03		03	60	40	100	3
7	17CVL57	Geotechnical Engineering Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-1		Open Elective – 1*** (List offered by Civil Engg Board only)	
17CV551	Air pollution and Control	17CV561	Traffic Engineering
17CV552	Railways, Harbours, tunneling and Airports	17CV562	Sustainability Concepts in Engineering
17CV553	Masonry Structures	17CV563	Remote Sensing and GIS
17CV554	Theory of Elasticity	17CV563	Occupational Health and Safety
		17CV563	NCC

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).

Selection of an open elective is not allowed, if:

· The candidate has no pre – requisite knowledge.

· The candidate has studied similar content course during previous semesters.

· The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).

Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

Principal
Maharaja Institute of Technology Mysore
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

VI SEMESTER

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV61	Construction Management and Entrepreneurship	Civil Engg.	04		03	60	40	100	4
2	17CV62	Design of Steel Structural Elements	Civil Engg.	04		03	60	40	100	4
3	17CV63	Highway Engineering	Civil Engg.	04		03	60	40	100	4
4	17CV64	Water Supply and Treatment Engineering	Civil Engg.	04		03	60	40	100	4
5	17CV65X	Professional Elective-2	Civil Engg.	03		03	60	40	100	3
6	17CV66X	Open Elective-2	Civil Engg.	03		03	60	40	100	3
7	17CVL67	Software Application Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVL68	Extensive Survey Project /Camp	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory:22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-2		Open Elective – 2*** (List offered by Civil Engg Board only)	
17CV651	Solid Waste Management	17CV661	Water Resource Management
17CV652	Matrix Method of Structural Analysis	17CV662	Environmental Protection and Management
17CV653	Alternative Building Materials	17CV663	Numerical Methods and Applications
17CV654	Ground Improvement Techniques	17CV664	Finite Element Analysis

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).

Selection of an open elective is not allowed, if:

- The candidate has no pre – requisite knowledge.
 - The candidate has studied similar content course during previous semesters.
 - The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).
- Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

[Signature]
Principal
Maharaja Institute of Technology Mysore
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Srirangapatna Taluk
Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

VII SEMESTER

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV71	Municipal and Industrial Waste Water Engineering	Civil Engg.	04		03	60	40	100	4
2	17CV72	Design of RCC and Steel Structures	Civil Engg.	04		03	60	40	100	4
3	17CV73	Hydrology and Irrigation Engineering	Civil Engg.	04		03	60	40	100	4
4	17CV74X	Professional Elective-3	Civil Engg.	03		03	60	40	100	3
5	17CV75X	Professional Elective-4	Civil Engg.	03		03	60	40	100	3
6	17CVL76	Environmental Engineering Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17CVL77	Computer Aided Detailing of Structures	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVP78	Project Work Phase-I + Project work Seminar	Civil Engg.		03	--	--	100	100	2
TOTAL				Theory:18 hours Practical and Project: 09 hours		21	420	380	800	24

Professional Elective-3		Professional Elective-4	
17CV741	Design of Bridges	17CV751	Urban Transportation and Planning
17CV742	Ground Water & Hydraulics	17CV752	Prefabricated Structures
17CV743	Design Concept of Building Services	17CV753	Rehabilitation and Retrofitting of Structures
17CV744	Structural Dynamics	17CV754	Reinforced Earth Structures

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

VIII SEMESTER

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV81	Quantity Surveying and Contracts Management	Civil Engg.	4	-	3	60	40	100	4
2	17CV82	Design of Pre Stressed Concrete Elements	Civil Engg.	4	-	3	60	40	100	4
3	17CV83X	Professional Elective-5	Civil Engg.	3	-	3	60	40	100	3
4	17CV84	Internship/ Professional Practice	Civil Engg.	Industry Oriented		3	50	50	100	2
5	17CVP85	Project Work-II	Civil Engg.	-	6	3	100	100	200	6
6	17CVS86	Seminar on current trends in Engineering and Technology	Civil Engg.	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional Elective -5	
17CV831	Earthquake Engineering
17CV832	Hydraulic Structures
17CV833	Pavement Design
17CV834	Advanced Foundation Design

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 Mandya District - 571477

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period

SCHEME OF TEACHING AND EXAMINATION
B.E Electronics & Communication Engineering / Telecommunication Engineering
(Common to Electronics & Communication and Telecommunication Engineering)

III SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics –III*	Maths	04		03	60	40	100	4
2	17EC32	Electronic Instrumentation	EC	03		03	60	40	100	3
3	17EC33	Analog Electronics	EC	04		03	60	40	100	4
4	17EC34	Digital Electronics	EC	04		03	60	40	100	4
5	17EC35	Network Analysis	EC	04		03	60	40	100	4
6	17EC36	Engineering Electromagnetics	EC	04		03	60	40	100	4
7	17ECL37	Analog Electronics Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ECL38	Digital Electronics Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I, which is 03 contact hours per week.

1	17MATDIP31	Additional Mathematics –I	Maths	03		03	60	--	60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

B.E Electronics & Communication Engineering / Telecommunication Engineering
(Common to Electronics & Communication and Telecommunication Engineering)

IV SEMESTER										
Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics –IV*	Maths	04		03	60	40	100	4
2	17EC42	Signals and Systems	EC	04		03	60	40	100	4
3	17EC43	Control Systems	EC	04		03	60	40	100	4
4	17EC44	Principles of Communication Systems	EC	04		03	60	40	100	4
5	17EC45	Linear Integrated Circuits	EC	04		03	60	40	100	4
6	17EC46	Microprocessor	EC	03		03	60	40	100	3
7	17ECL47	Microprocessor Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ECL48	Linear ICs and Communication Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2.Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – II, which is 03 contact hours per week.

1	17MATDIP41	Additional Mathematics –II	Maths	03		03	60	60	--	
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

Pratibha
Maharaja Institute of Technology Mysore
Belawadi, Naguvana Halli Post
Srirangapatna Taluk
Mandya District - 571477

V SEMESTER

B.E.: Electronics & Communication Engineering

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17ES51	Management and Entrepreneurship Development	EC	04		03	60	40	100	4
2	17EC52	Digital Signal Processing	EC	04		03	60	40	100	4
3	17EC53	Verilog HDL	EC	04		03	60	40	100	4
4	17EC54	Information Theory & Coding	EC	04		03	60	40	100	4
5	17EC55X	Professional Elective-1	EC	03		03	60	40	100	3
6	17EC56X	Open Elective-1	EC	03		03	60	40	100	3
7	17ECL57	DSP Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ECL58	HDL Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-1		Open Elective – 1*** (List offered by EC/TC Board only)	
17EC551	Nanoelectronics	17EC561	Automotive Electronics
17EC552	Switching & Finite Automata Theory	17EC562	Object Oriented Programming Using C++
17EC553	Operating System	17EC563	8051 Microcontroller
17EC554	Electrical Engineering Materials		
17EC555	MSP430 Microcontroller		

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).

Selection of an open elective is not allowed, if:

- The candidate has no pre – requisite knowledge.
- The candidate has studied similar content course during previous semesters.
- The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).

Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

[Signature]
 Principal
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 Srirangapatna Taluk
 Mandya District - 571477

B.E.: Electronics & Communication Engineering

VI SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EC61	Digital Communication	EC	04		03	60	40	100	4
2	17EC62	ARM Microcontroller & Embedded Systems	EC	04		03	60	40	100	4
3	17EC63	VLSI Design	EC	04		03	60	40	100	4
4	17EC64	Computer Communication Networks	EC	04		03	60	40	100	4
5	17EC65X	Professional Elective-2	EC	03		03	60	40	100	3
6	17EC66X	Open Elective-2	EC	03		03	60	40	100	3
7	17ECL67	Embedded Controller Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ECL68	Computer Networks Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-2		Open Elective – 2*** (List offered by EC/TC Board only)	
17EC651	Cellular Mobile Communication	17EC661	Data Structures Using C++
17EC652	Adaptive Signal Processing	17EC662	Power Electronics (not for E&C students)
17EC653	Artificial Neural Networks	17EC663	Digital System Design using Verilog
17EC654	Digital Switching Systems		
17EC655	Microelectronics		

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).

Selection of an open elective is not allowed, if:

- The candidate has no pre – requisite knowledge.
- The candidate has studied similar content course during previous semesters.
- The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).

Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.


Principal
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 Mandya District - 571477

VII SEMESTER

B.E.: Electronics & Communication Engineering

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EC71	Microwave and Antennas	EC	04		03	60	40	100	4
2	17EC72	Digital Image Processing	EC	04		03	60	40	100	4
3	17EC73	Power Electronics	EC	04		03	60	40	100	4
4	17EC74X	Professional Elective-3	EC	03		03	60	40	100	3
5	17EC75X	Professional Elective-4	EC	03		03	60	40	100	3
6	17ECL76	Advanced Communication Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17ECL77	VLSI Lab	EC	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ECP78	Project Work Phase-I + Project work Seminar	EC		03		-	100	100	2
TOTAL				Theory:18 hours Practical and Project: 09 hours		21	420	380	800	24

Professional Elective-3		Professional Elective-4	
17EC741	Multimedia Communication	17EC751	DSP Algorithms and Architecture
17EC742	Biomedical Signal Processing	17EC752	IOT and Wireless Sensor Networks
17EC743	Real Time Systems	17EC753	Pattern Recognition
17EC744	Cryptography	17EC754	Advanced Computer Architecture
17EC745	CAD for VLSI	17EC755	Satellite Communication

1. **Project Phase – I and Project Seminar:** Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.

Principal
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 Mandya District - 571477

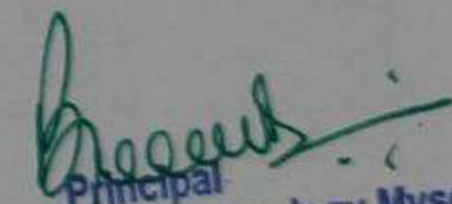
B.E.: Electronics & Communication Engineering

VIII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EC81	Wireless Cellular and LTE 4G Broadband	EC	4	-	3	60	40	100	4
2	17EC82	Fiber Optics & Networks	EC	4	-	3	60	40	100	4
3	17EC83X	Professional Elective-5	EC	3	-	3	60	40	100	3
4	17EC84	Internship/Professional Practice	EC	Industry Oriented		3	50	50	100	2
5	17ECP85	Project Work	EC	-	6	3	100	100	200	6
6	17ECS86	Seminar	EC	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional Elective -5	
17EC831	Micro Electro Mechanical Systems
17EC832	Speech Processing
17EC833	Radar Engineering
17EC834	Machine learning
17EC835	Network and Cyber Security

4. **Internship/ Professional Practice:** 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Computer Science and Engineering

III SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics - III	Maths	04		03	60	40	100	4
2	17CS32	Analog and Digital Electronics	CS/IS	04		03	60	40	100	4
3	17CS33	Data Structures and Applications	CS/IS	04		03	60	40	100	4
4	17CS34	Computer Organization	CS/IS	04		03	60	40	100	4
5	17CS35	Unix and Shell Programming	CS/IS	03		03	60	40	100	3
6	17CS36	Discrete Mathematical Structures	CS/IS	04		03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I, which is 03 contact hours per week.

1	17MATDIP31	Additional Mathematics –I	Maths	03		03	60		60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL INSTITUTE
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Computer Science and Engineering

IV SEMESTER										
Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
						03	60	40	100	4
1	17MAT41	Engineering Mathematics - IV	Maths	04		03	60	40	100	3
2	17CS42	Object Oriented Concepts	CS/IS	03		03	60	40	100	4
3	17CS43	Design and Analysis of Algorithms	CS/IS	04		03	60	40	100	4
4	17CS44	Microprocessors and Microcontrollers	CS/IS	04		03	60	40	100	4
5	17CS45	Software Engineering	CS/IS	04		03	60	40	100	4
6	17CS46	Data Communication	CS/IS	04		03	60	40	100	4
7	17CSL47	Design and Analysis of Algorithm Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL48	Microprocessors Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – II, which is 03 contact hours per week.

1	17MATDIP41	Additional Mathematics –II	Maths	03		03	60	--	60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

[Signature]
Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
 Srirangapatna Taluk
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

V SEMESTER

B.E: Computer Science and Engineering

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS51	Management and Entrepreneurship for IT Industry	CS/IS	04		03	60	40	100	4
2	17CS52	Computer Networks	CS/IS	04		03	60	40	100	4
3	17CS53	Database Management System	CS/IS	04		03	60	40	100	4
4	17CS54	Automata theory and Computability	CS/IS	04		03	60	40	100	4
5	17CS55x	Professional Elective-1	CS/IS	03		03	60	40	100	3
6	17CS56x	Open Elective-1	CS/IS	03		03	60	40	100	3
7	17CSL57	Computer Network Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-1		Open Elective – 1*** (List offered by CSE Board only)	
17CS551	Object Oriented Modeling and Design	17CS561	Programming in JAVA (Not for CSE/ISE students)
17CS552	Introduction to Software Testing	17CS562	Artificial Intelligence
17CS553	Advanced JAVA and J2EE	17CS563	Embedded Systems
17CS554	Advanced Algorithms	17CS564	Dot Net framework for application development;
		17CS565	Cloud Computing (Not for CSE/ISE students)

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).
 Selection of an open elective is not allowed, if:
 · The candidate has no pre – requisite knowledge.
 · The candidate has studied similar content course during previous semesters.
 · The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).
 Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

Principal
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 Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Computer Science and Engineering

VI SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS61	Cryptography, Network Security and Cyber Law	CS/IS	04		03	60	40	100	4
2	17CS62	Computer Graphics and Visualization	CS/IS	04		03	60	40	100	4
3	17CS63	System Software and Compiler Design	CS/IS	04		03	60	40	100	4
4	17CS64	Operating Systems	CS/IS	04		03	60	40	100	4
5	17CS65x	Professional Elective-2	CS/IS	03		03	60	40	100	3
6	17CS66x	Open Elective-2	CS/IS	03		03	60	40	100	3
7	17CSL67	System Software and Operating System Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL68	Computer Graphics Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory:22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-2		Open Elective – 2*** (List offered by CSE Board only)	
17CS651	Data Mining and Data Warehousing	17CS661	Mobile Application Development
17CS652	Software Architecture and Design Patterns	17CS662	Big Data Analytics (Not for CSE/ISE students)
17CS653	Operations research	17CS663	Wireless Networks and Mobile computing
17CS654	Distributed Computing system	17CS664	Python Application Programming
		17CS665	Service Oriented Architecture
		17CS666	Multicore Architecture and Programming

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).
 Selection of an open elective is not allowed, if:
 · The candidate has no pre – requisite knowledge.
 · The candidate has studied similar content course during previous semesters.
 · The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).
 Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

Principal
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

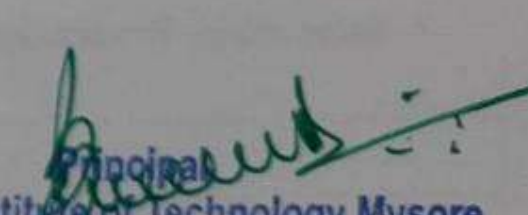
B.E: Computer Science and Engineering

VII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Duration in hours	Examination			Credits
				Theory	Practical/ Drawing		SEE Marks	CIE Marks	Total Marks	
1	17CS71	Web Technology and its applications	CS/IS	04		03	60	40	100	4
2	17CS72	Advanced Computer Architectures	CS/IS	04		03	60	40	100	4
3	17CS73	Machine Learning	CS/IS	04		03	60	40	100	4
4	17CS74x	Professional Elective 3	CS/IS	03		03	60	40	100	3
5	17CS75x	Professional Elective 4	CS/IS	03		03	60	40	100	3
6	17CSL76	Machine Learning Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17CSL77	Web Technology Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSP78	Project Work Phase-I + Project work Seminar	CS/IS		03	--	--	100	100	2
TOTAL				Theory:18 hours Practical and Project: 09 hours		21	420	380	800	24

Professional Elective-3		Professional Elective-4	
17CS741	Natural Language Processing	17CS751	Soft and Evolutionary Computing
17CS742	Cloud Computing and its Applications	17CS752	Computer Vision and Robotics
17CS743	Information and Network Security	17CS753	Digital Image Processing
17CS744	Unix System Programming	17CS754	Storage Area Networks

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks will be based on Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.


Principal
Maharaja Institute of Technology Mysore
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Computer Science and Engineering

VIII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS81	Internet of Things and Applications	CS/IS	4	-	3	60	40	100	4
2	17CS82	Big Data Analytics	CS/IS	4	-	3	60	40	100	4
3	17CS83X	Professional Elective-5	CS/IS	3	-	3	60	40	100	3
4	17CS84	Internship/ Professional Practice	CS/IS	Industry Oriented		3	50	50	100	2
5	17CSP85	Project Work-II	CS/IS	-	6	3	100	100	200	6
6	17CSS86	Seminar	CS/IS	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional Elective -5	
17CS831	High Performance Computing
17CS832	User Interface Design
17CS833	Network management
17CS834	System Modeling and Simulation

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.

[Signature]
Maharaja Institute of Technology Mysore
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 Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Information Science and Engineering

III SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics - III	Maths	04		03	60	40	100	4
2	17CS32	Analog and Digital Electronics	CS/IS	04		03	60	40	100	4
3	17CS33	Data Structures and Applications	CS/IS	04		03	60	40	100	4
4	17CS34	Computer Organization	CS/IS	04		03	60	40	100	4
5	17CS35	Unix and Shell Programming	CS/IS	03		03	60	40	100	3
6	17CS36	Discrete Mathematical Structures	CS/IS	04		03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I, which is 03 contact hours per week.

1	17MATDIP31	Additional Mathematics –I	Maths	03		03	60	--	60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

[Signature]
Principal
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Srirangapatna Taluk
Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Information Science and Engineering

IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics - IV	Maths	04		03	60	40	100	4
2	17CS42	Object Oriented Concepts	CS/IS	03		03	60	40	100	3
3	17CS43	Design and Analysis of Algorithms	CS/IS	04		03	60	40	100	4
4	17CS44	Microprocessors and Microcontrollers	CS/IS	04		03	60	40	100	4
5	17CS45	Software Engineering	CS/IS	04		03	60	40	100	4
6	17CS46	Data Communication	CS/IS	04		03	60	40	100	4
7	17CSL47	Design and Analysis of Algorithm Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL48	Microprocessors Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – II, which is 03 contact hours per week.

1	17MATDIP41	Additional Mathematics –II	Maths	03		03	60	--	60	--
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(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

[Signature]
Principal
Maharaja Institute of Technology Mysore
Belawadi, Naguvanahalli Post
Srirangapatna Taluk
Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

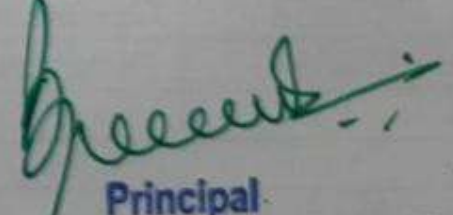
B.E: Information Science and Engineering

V SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS51	Management and Entrepreneurship for IT Industry	CS/IS	04		03	60	40	100	4
2	17CS52	Computer Networks	CS/IS	04		03	60	40	100	4
3	17CS53	Database Management System	CS/IS	04		03	60	40	100	4
4	17CS54	Automata theory and Computability	CS/IS	04		03	60	40	100	4
5	17CS/IS55x	Professional Elective-1	CS/IS	03		03	60	40	100	3
6	17CS56x	Open Elective-1	CS/IS	03		03	60	40	100	3
7	17CSL57	Computer Network Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-1		Open Elective – 1*** (List offered by CSE Board only)	
17CS551	Object Oriented Modeling and Design	17CS561	Programming in JAVA (Not for CSE/ISE students)
17IS552	Social Network Analysis	17CS562	Artificial Intelligence
17CS553	Advanced JAVA and J2EE	17CS563	Embedded Systems
17IS554	Programming Languages	17CS564	Dot Net framework for application development;
		17CS565	Cloud Computing (Not for CSE/ISE students)

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).
 Selection of an open elective is not allowed, if:
 · The candidate has no pre – requisite knowledge.
 · The candidate has studied similar content course during previous semesters.
 · The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).
 Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Information Science and Engineering

VI SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS61	Cryptography, Network Security and Cyber Law	CS/IS	04		03	60	40	100	4
2	17IS62	File Structures	CS/IS	04		03	60	40	100	4
3	17IS63	Software Testing	CS/IS	04		03	60	40	100	4
4	17CS64	Operating Systems	CS/IS	04		03	60	40	100	4
5	17CS/IS65x	Professional Elective-2	CS/IS	03		03	60	40	100	3
6	17CS66x	Open Elective-2	CS/IS	03		03	60	40	100	3
7	17ISL67	Software Testing Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ISL68	File Structures Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22 hours Practical: 06 hours		24	480	320	800	26

Professional Elective-2		Open Elective – 2*** (List offered by CSE Board only)	
17CS651	Data Mining and Data Warehousing	17CS661	Mobile Application Development
17IS652	System Software	17CS662	Big Data Analytics (Not for CSE/ISE students)
17CS653	Operations research	17CS663	Wireless Networks and Mobile computing
17CS654	Distributed Computing system	17CS664	Python Application Programming
		17CS665	Service Oriented Architecture
		17CS666	Multicore Architecture and Programming

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).

Selection of an open elective is not allowed, if:

- The candidate has no pre – requisite knowledge.
- The candidate has studied similar content course during previous semesters.
- The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).

Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Information Science and Engineering

VII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS71	Web Technology and its applications	CS/IS	04		03	60	40	100	4
2	17IS72	Software Architecture and Design Patterns	CS/IS	04		03	60	40	100	4
3	17CS73	Machine Learning	CS/IS	04		03	60	40	100	4
4	17CS/IS74x	Professional Elective 3	CS/IS	03		03	60	40	100	3
5	17CS/IS75x	Professional Elective 4	CS/IS	03		03	60	40	100	3
6	17CSL76	Machine Learning Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17CSL77	Web Technology Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17ISP78	Project Work Phase-I + Project work Seminar	CS/IS		03	--	--	100	100	2
TOTAL				Theory:18 hours Practical and Project: 09 hours		21	420	380	800	24

Professional Elective-3		Professional Elective-4	
17CS741	Natural Language Processing	17CS751	Soft and Evolutionary Computing
17CS742	Cloud Computing and its Applications	17CS752	Computer Vision and Robotics
17CS743	Information and Network Security	17IS753	Information Management System
17CS744	Unix System Programming	17CS754	Storage Area Networks

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
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B.E: Information Science and Engineering

VIII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS81	Internet of Things and Applications	CS/IS	4	-	3	60	40	100	4
2	17CS82	Big Data Analytics	CS/IS	4	-	3	60	40	100	4
3	17CS/IS83X	Professional Elective-5	CS/IS	3	-	3	60	40	100	3
4	17IS84	Internship/ Professional Practice	CS/IS	Industry Oriented		3	50	50	100	2
5	17ISP85	Project Work-II	CS/IS	-	6	3	100	100	200	6
6	17ISS86	Seminar	CS/IS	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional Elective -5	
17CS831	High Performance Computing
17CS832	User Interface Design
17IS833	Virtual Reality
17CS834	System Modeling and Simulation

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.

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B.E. Mechanical Engineering
III SEMESTER

Sl. No.	Subject Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics – III	Maths	04			03	60	40	100	4
2	17ME32	Materials Science	ME	04			03	60	40	100	4
3	17ME33	Basic Thermodynamics	ME	03	02		03	60	40	100	4
4	17ME34	Mechanics of Materials	ME	03	02		03	60	40	100	4
5	17ME35A/ 17ME35B	Metal Casting and Welding	ME	04			03	60	40	100	4
		Machine Tools and Operations	ME								
6	17ME36A/ 17ME36B	Computer Aided Machine Drawing	ME	01		4	03	60	40	100	3
		Mechanical Measurements and Metrology	ME	03							
7	17MEL37A/ 17MEL37B	Materials Testing Lab/	ME	1		2	03	60	40	100	2
		Mechanical Measurements and Metrology Lab	ME								
8	17MEL38A/ 17MEL38B	Foundry and Forging Lab	ME	1		2	03	60	40	100	2
		Machine Shop/	ME								
9	17KL/CPH39 /49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	1			01	30	20	50	1
TOTAL				22/24	04	08/04		510	340	850	28

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Updated on 29.08.2020

B.E. Mechanical Engineering
IV SEMESTER

Sl. No	Subject Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Lecte	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics – III	Maths	04			03	60	40	100	04
2	17ME42	Kinematics of Machinery	ME	03	02		03	60	40	100	04
3	17ME43	Applied Thermodynamics	ME	03	02		03	60	40	100	04
4	17ME44	Fluid mechanics	ME	03	02		03	60	40	100	04
5	17ME45A/ 17ME45B	Metal Casting and Welding	ME	04			03	60	40	100	04
		Machine Tools and Operations	ME								
6	17ME46 A/ 17ME46B	Computer Aided Machine Drawing	ME	01		4	03	60	40	100	03
		Mechanical Measurements and Metrology	ME	03							
7	17MEL47A/ 17MEL47B	Materials Testing Lab/	ME	1		2	03	60	40	100	02
		Mechanical Measurements and Metrology Lab	ME								
8	17MEL48A/ 17MEL48B	Foundry and Forging Lab	ME	1		2	03	60	40	100	02
		Machine Shop/	ME								
9	17KL/CPH39/ 49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	1			01	30	20	50	1
TOTAL				21/23	06	08/04		510	340	850	28


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B.E. Mechanical Engineering

V SEMESTER

V SEMESTER										
Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17ME51	Management and Engineering Economics	3	2	0	03	60	40	100	4
2	17ME52	Dynamics of Machinery	3	2	0	03	60	40	100	4
3	17ME53	Turbo Machines	3	2	0	03	60	40	100	4
4	17ME54	Design of Machine Elements - I	3	2	0	03	60	40	100	4
5	17ME55X	Professional Elective-I	3	0	0	03	60	40	100	3
6	17ME56X	Open Elective-I	3	0	0	03	60	40	100	3
7	17MEL57	Fluid Mechanics & Machinery Lab	1	0	2	03	60	40	100	2
8	17MEL58	Energy Lab	1	0	2	03	60	40	100	2
TOTAL			20	08	04		480	320	60	40

Professional Elective-I		Open Elective-I	
17ME551	Refrigeration and Air-conditioning	17ME561	Optimization Techniques
17ME552	Theory of Elasticity	17ME562	Energy and Environment
17ME553	Human Resource Management	17ME563	Automation and Robotics
17ME554	Non Traditional Machining	17ME564	Project Management

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. Open Elective:** Electives from other technical and/or emerging subject areas.

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Updated on 29.08.2020

B.E. Mechanical Engineering

VI SEMESTER										
Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17ME61	Finite Element Analysis	3	2	0	03	60	40	100	4
2	17ME62	Computer integrated Manufacturing	4	0	0	03	60	40	100	4
3	17ME63	Heat Transfer	3	2	0	03	60	40	100	4
4	17ME64	Design of Machine Elements -II	3	2	0	03	60	40	100	4
5	17ME65X	Professional Elective-II	3	0	0	03	60	40	100	3
6	17ME66X	Open Elective-II	3	0	0	03	60	40	100	3
7	17MEL67	Heat Transfer Lab	1	0	2	03	60	40	100	2
8	17MEL68	Modeling and Analysis Lab(FEA)	1	0	2	03	60	40	100	2
TOTAL			21	6	04		480	320	60	40

Professional Elective-II		Open Elective-II	
17ME651	Computational Fluid Dynamics	17ME661	Energy Auditing
17ME652	Mechanics of Composite Materials	17ME662	Industrial Safety
17ME653	Metal Forming	17ME663	Maintenance Engineering
17ME654	Tool Design	17ME664	Total Quality Management
17ME655	Automobile Engineering		

1. **Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. **Professional Elective:** Elective relevant to chosen specialization/ branch

3. **Open Elective:** Electives from other technical and/or emerging subject areas.


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Updated on 29.08.2020

Visvesvaraya Technological University, Belagavi B.E. in Mechanical Engineering 2017- Scheme of Teaching and Examination Choice Based Credit System (CBCS)										
VII Semester										
Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17ME71	Energy Engineering	3	2	0	03	60	40	100	4
2	17ME72	Fluid Power Systems	4	0	0	03	60	40	100	4
3	17ME73	Control Engineering	3	2	0	03	60	40	100	4
4	17ME74X	Professional Elective - III	3	0	0	03	60	40	100	3
5	17ME75X	Professional Elective-IV	3	0	0	03	60	40	100	3
6	17MEL76	Design Lab	1	0	2	03	60	40	100	2
7	17MEL77	CIM Lab	1	0	2	03	60	40	100	2
8	17MEP78	Project Phase - I	-	-	-	-		100	100	2
TOTAL			18	04	04	21	420	380	800	24

Professional Elective-III		Professional Elective-IV	
17ME741	Design of Thermal Equipment's	17ME751	Automotive Electronics
17ME742	Tribology	17ME752	Fracture Mechanics
17ME743	Financial Management	17ME753	Mechatronics
17ME744	Design for Manufacturing	17ME754	Advanced Vibrations
17ME745	Smart Materials & MEMS		

- Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- Professional Elective:** Elective relevant to chosen specialization/ branch


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Visvesvaraya Technological University, Belagavi B.E. in Mechanical Engineering 2017- Scheme of Teaching and Examination Choice Based Credit System (CBCS)										
VIII Semester										
Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			L	T	P	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17ME81	Operations Research	3	2	0	03	60	40	100	4
2	17ME82	Additive Manufacturing	4	0	0	03	60	40	100	4
3	17ME83X	Professional Elective - V	3	0	0	03	60	40	100	3
4	17ME84	Internship / Professional Practice	Industry Oriented			03	50	50	100	2
5	17ME85	Project Phase - II	-		6	03	100	100	200	6
6	17MES86	Seminar	-		4	-		100	100	1
TOTAL			10	02	10	15	330	370	700	20

Professional Elective-V	
15ME831	Cryogenics
15ME832	Experimental Stress Analysis
15ME833	Theory of Plasticity
15ME834	Green Manufacturing
15ME835	Product life cycle management

1. **Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
2. **Professional Elective:** Elective relevant to chosen specialization/ branch
3. **Internship / Professional Practice:** To be carried out between 6th & 7th semester vacation or 7th & 8th semester vacation


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2018 – 19)

I SEMESTER B.E./B.Tech (PHYSICS GROUP)

I SEMESTER B.E./B.Tech (PHYSICS GROUP)														
Sl. No	Course and Course Code		Course Title	Teaching Department	Paper Setting Board	Teaching Hours /Week			Examination				Credits	
						Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks		
						L	T	P						
1	BSC	18MAT11	Calculus and Linear Algebra	Mathematics	Maths	3	2	--	03	40	60	100	4	
2	BSC	18PHY12	Engineering Physics	Physics	Physics	3	2	--	03	40	60	100	4	
3	ESC	18ELE13	Basic Electrical Engineering	E and E Engineering	E and E Engineering	2	2	--	03	40	60	100	3	
4	ESC	18CIV14	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	2	2	--	03	40	60	100	3	
5	ESC	18EGDL15	Engineering Graphics	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	2	--	2	03	40	60	100	3	
6	BSC	18PHYL16	Engineering Physics Laboratory	Physics	Physics	--	--	2	03	40	60	100	1	
7	ESC	18ELEL17	Basic Electrical Engineering Laboratory	E and E Engineering	E and E Engineering	--	--	2	03	40	60	100	1	
8	HSMC	18EGH18	Technical English-I	Humanities	Humanities	--	2	--	03	40	60	100	1	
TOTAL						12	10	06	24	320	480	800	20	
Note: BSC: Basic Science Courses, ESC: Engineering Science Courses, HSMC: Humanity, Social Science and Management Courses.														
Definition of Credit:		1 hour Lecture (L) per week per semester =1 Credit												
		2 hour Tutorial (T) per week per semester =1 Credit												
		2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit.												

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2018 – 19)

I SEMESTER B.E./B.Tech (CHEMISTRY GROUP)

I SEMESTER B.E./B.Tech (CHEMISTRY GROUP)													
Sl. No	Course and Course Code		Course Title	Teaching Department	Paper Setting Board	Teaching Hours /Week			Examination				Credits
						Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT11	Calculus and Linear Algebra	Mathematics	Mathematics	3	2	--	03	40	60	100	4
2	BSC	18CHE12	Engineering Chemistry	Chemistry	Chemistry	3	2	--	03	40	60	100	4
3	ESC	18CPS13	C Programming for Problem Solving	Computer Science and Engineering	Computer Science and Engineering	2	2	--	03	40	60	100	3
4	ESC	18ELN14	Basic Electronics	ECE/E and I/ TC	E and C Engineering	2	2	--	03	40	60	100	3
5	ESC	18ME15	Elements of Mechanical Engineering	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	2	2	--	03	40	60	100	3
6	BSC	18CHEL16	Engineering Chemistry Laboratory	Chemistry	Chemistry	--	--	2	03	40	60	100	1
7	ESC	18CPL17	C Programming Laboratory	Computer Science and Engineering	Computer Science and Engineering	--	--	2	03	40	60	100	1
8	HSMC	18EGH18	Technical English-- 1	Humanities	Humanities	--	2	--	03	40	60	100	1
TOTAL						12	12	04	24	320	480	800	20
Note: BSC: Basic Science Courses, ESC: Engineering Science Courses, HSMC: Humanity, Social Science and Management Courses.													
Definition of Credit:		1 hour Lecture (L) per week per semester =1 Credit											
		2 hour Tutorial (T) per week per semester =1 Credit											
		2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit.											

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

II SEMESTER B.E./B.Tech (PHYSICS GROUP)

II SEMESTER B.E./B.Tech (PHYSICS GROUP)														
Sl. No	Course and Course Code		Course Title	Teaching Department	Paper Setting Board	Teaching Hours /Week			Examination				Credits	
						Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks		
														L
1	BSC	18MAT21	Advanced Calculus and Numerical Methods	Mathematics	Mathematics	3	2	--	03	40	60	100	4	
2	BSC	18PHY22	Engineering Physics	Physics	Physics	3	2	--	03	40	60	100	4	
3	ESC	18ELE23	Basic Electrical Engineering	E and E Engineering	E and E Engineering	2	2	--	03	40	60	100	3	
4	ESC	18CIV24	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	2	2	--	03	40	60	100	3	
5	ESC	18EGDL25	Engineering Graphics	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	2	--	2	03	40	60	100	3	
6	BSC	18PHYL26	Engineering Physics Laboratory	Physics	Physics	--	--	2	03	40	60	100	1	
7	ESC	18ELEL27	Basic Electrical Engineering Laboratory	E and E Engineering	E and E Engineering	--	--	2	03	40	60	100	1	
8	HSMC	18EGH28	Technical English– II	Humanities	Humanities	--	2	--	03	40	60	100	1	
TOTAL						12	10	06	24	320	480	800	20	
Note: BSC: Basic Science Courses, ESC: Engineering Science Courses, HSMC: Humanity, Social Science and Management Courses.														
Definition of Credit:		1 hour Lecture (L) per week per semester =1 Credit 2 hour Tutorial (T) per week per semester =1 Credit 2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit.												

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

II SEMESTER B.E./B.Tech (CHEMISTRY GROUP)													
Sl. No	Course and Course Code		Course Title	Teaching Department	Paper Setting Board	Teaching Hours /Week			Examination				Credits
						Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
						L	T	P					
1	BSC	18MAT21	Advanced Calculus and Numerical Methods	Mathematics	Maths	3	2	--	03	40	60	100	4
2	BSC	18CHE22	Engineering Chemistry	Chemistry	Chemistry	3	2	--	03	40	60	100	4
3	ESC	18CPS23	C Programming for Problem Solving	Computer Science and Engineering	Computer Science and Engineering	2	2	--	03	40	60	100	3
4	ESC	18ELN24	Basic Electronics	ECE/E and I/ TC	E and C Engineering	2	2	--	03	40	60	100	3
5	ESC	18ME25	Elements of Mechanical Engineering	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	2	2	--	03	40	60	100	3
6	BSC	18CHEL26	Engineering Chemistry Laboratory	Chemistry	Chemistry	--	--	2	03	40	60	100	1
7	ESC	18CPL27	C Programming Laboratory	Computer Science and Engineering	Computer Science and Engineering	--	--	2	03	40	60	100	1
8	HSMC	18EGH28	Technical English– II	Humanities	Humanities	--	2	--	03	40	60	100	1
TOTAL						12	12	04	24	320	480	800	20
Note: BSC: Basic Science Courses, ESC: Engineering Science Courses, HSMC: Humanity, Social Science and Management Courses.													
Definition of Credit:		1 hour Lecture (L) per week per semester =1 Credit											
		2 hour Tutorial (T) per week per semester =1 Credit											
		2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit.											

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Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV32	Strength of Materials	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV33	Fluid Mechanics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV34	Building Materials and Construction	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV35	Basic Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV36	Engineering Geology	Geology	3	0	--	03	40	60	100	3
7	PCC	18CVL37	Computer Aided Building Planning & Drawing	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL38	Building Materials Testing Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
TOTAL					17	08		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		
Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.												
18KVK39Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.												
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F												


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grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.
 (b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

[Signature]
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

IV SEMESTER

SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV42	Analysis of Determinate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV43	Applied Hydraulics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV44	Concrete Technology	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV45	Advanced Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV46	Water Supply & Treatment Engineering	Civil Engg.	3	0	--	03	40	60	100	3
7	PCC	18CVL47	Engineering Geology Laboratory	Geology	--	2	2	03	40	60	100	2
8	PCC	18CVL48	Fluid Mechanics and Hydraulic Machines Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law									
TOTAL				17	08	04	24	420	480	900	24	
				OR	OR		OR					
				18	10		26	360	540			

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39/49Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39/49Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
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(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

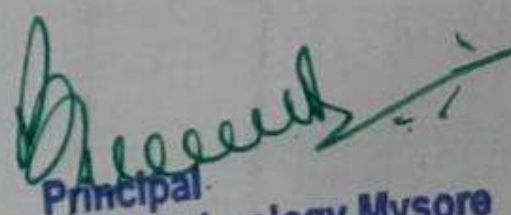
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(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


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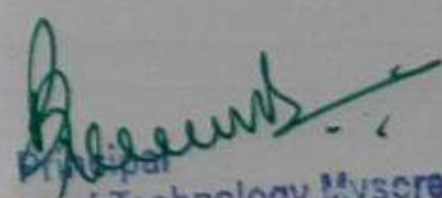
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CV51	Construction Management & Entrepreneurship	Civil Engg.	2	2	--	03	40	60	100	3
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV53	Design of RC Structural Elements	Civil Engg.	3	2	--	03	40	60	100	4
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3	--	--	03	40	60	100	3
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CV56	Highway Engineering	Civil Engg.	3	--	--	03	40	60	100	3
7	PCC	18CVL57	Surveying Practice	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental [Paper setting Board: Civil Engineering]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
CIVIL ENGINEERING												
Scheme of Teaching and Examination 2018 - 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 - 19)												
VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CV61	Design of Steel Structural Elements	Civil Engg.	3	2	--	03	40	60	100	4
2	PCC	18CV62	Applied Geotechnical Engineering	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV63	Hydrology and Irrigation Engineering	Civil Engg.	3	2	--	03	40	60	100	4
4	PEC	18CV64X	Professional Elective -1	Civil Engg.	3	--	--	03	40	60	100	3
5	OEC	18CV65X	Open Elective -A	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CVL66	Software Application Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
7	PCC	18CVL67	Environmental Engineering Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
8	EP	18CVEP68	Extensive Survey project	Civil Engg.	--	2	2	03	40	60	100	2
9	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	12	06	24	320	480	800	24
Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.												
Professional Elective -1												
Course code under 18CV64X												
18CV641 Matrix Method of Structural Analysis												

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18CV642	Solid Waste Management
18CV643	Alternate Building Materials
18CV644	Ground Improvement Techniques
18CV645	Railway, Harbours, Tunnelling & Airports
Open Elective -A	
Course code under 18CV65X	
18CV651	Remote Sensing & GIS
18CV652	Traffic Engineering
18CV653	Occupational Health & Safety
18CV654	Sustainability Concepts in Civil Engineering
18CV655	Intelligent Transportation Systems
18CV656	Conservation of Natural Resources
<p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.</p> <p>Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.</p> <p>AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p>	


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

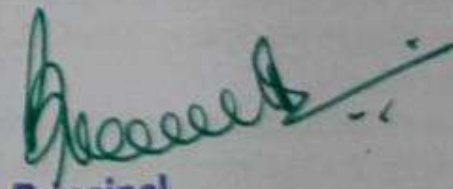
Programme: CIVIL ENGINEERING												
VII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CV71	Quality Surveying and Contract Management	Civil Engg.	3	--	--	03	40	60	100	3
2	PCC	18CV72	Design of RCC and Steel Structures	Civil Engg.	3	--	--	03	40	60	100	3
3	PEC	18CV73X	Professional Elective - 2	Civil Engg.	3	--	--	03	40	60	100	3
4	PEC	18CV74X	Professional Elective - 3	Civil Engg.	3	--	--	03	40	60	100	3
5	OEC	18CV75X	Open Elective -B	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CVL76	Computer Aided Detailing of Structures	Civil Engg.	--	2	2	03	40	60	100	2
7	PCC	18CVL77	Geotechnical Engineering Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
8	Project	18CVP78	Project Work Phase - 1		--	--	2	--	100	--	100	1
9	Internship	--	Internship	(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)								
TOTAL					15	04	06	21	380	420	00	20

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective - 2	
Course code under 18CV73X	Course Title
18CV731	Theory of Elasticity
18CV732	Air Pollution and Control
18CV733	Pavement Materials & Construction
18CV734	Ground Water Hydraulics
18CV735	Masonry Structures
Professional Electives - 3	
Course code under 18CV74X	Course Title
18CV741	Earthquake Engineering
18CV742	Design Concepts of Building Services
18CV743	Reinforced Earth Structures

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18CV744	Design of Hydraulic Structures
18CV745	Urban Transport Planning
Open Elective -B	
Course code under 18CV75X	Course Title
18CV751	Finite Element Method
18CV752	Numerical Methods and Applications
18CV753	Environmental Protection and Management
<p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> The candidate has studied the same course during the previous semesters of the programme. The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.</p>	
<p>Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.</p> <p>CIE procedure for Project Work Phase - 1: (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates. (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates. Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements. AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p>	


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18CV81	Design of Pre-stressed Concrete	Civil Engg.	3	--	--	03	40	60	100	3
2	PEC	18CV82X	Professional Elective - 4	Civil Engg.	3	--	--	03	40	60	100	3
3	Project	18CVP83	Project Work Phase - 2	Civil Engg.	--	--	16	03	40	60	100	8
4	Seminar	18CVS84	Technical Seminar	Civil Engg.	--	--	2	03	100	--	100	1
5	Internship	18CVI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	18	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Electives - 4												
Course code under 18CV82X		Course Title										
18CV821		Bridge Engineering										
18CV822		Prefabricated Structures										
18CV823		Advanced Foundation Engineering										
18CV824		Rehabilitation & Retrofitting										
18CV825		Pavement Design										
Project Work												
CIE procedure for Project Work Phase - 2:												
(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.												
The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.												
The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
SEE for Project Work Phase - 2:												

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(i) **Single discipline:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
		Examination is by objective type questions										
TOTAL					17	08		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		
Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course												
18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.												
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.												
(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree												
Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs												
Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.												
AICTE Activity Points to be earned by students admitted to BE/B.Tech/B. Plan day college programme (For more details refer to Chapter 6,AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

(Effective from the academic year 2018-19)

IV SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability and Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS42	Design and Analysis of Algorithms	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS43	Operating Systems	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18SC44	Microcontroller and Embedded Systems	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS45	Object Oriented Concepts	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS46	Data Communication	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL47	Design and Analysis of Algorithm Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL48	Microcontroller and Embedded Systems Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK49	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10		26	360	540		

Examination is by objective type questions

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and **18KAK49** Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

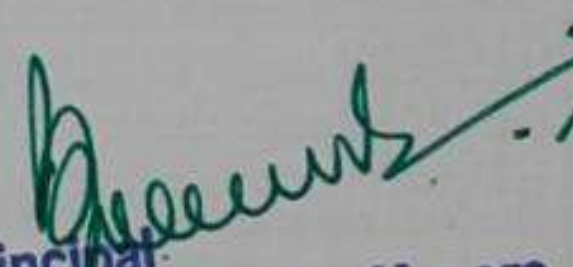
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												


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VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CS61	System Software and Compilers	CS / IS	3	2	--	03	40	60	100	4
2	PCC	18CS62	Computer Graphics and Visualization	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2	--	03	40	60	100	4
4	PEC	18CS64X	Professional Elective -I	CS / IS	3	--	--	03	40	60	100	3
5	OEC	18CS65X	Open Elective –A	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CSL66	System Software Laboratory	CS / IS	--	2	2	03	40	60	100	2
7	PCC	18CSL67	Computer Graphics Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CS / IS	--	--	2	03	40	60	100	2
9	INT	--	Internship	(To be carried out during the intervening vacations of VI and VII semesters)				--	--	--	--	--
TOTAL					15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.

Professional Elective -I

Course code under 18XX64X	Course Title
18CS641	Data Mining and Data Warehousing
18CS642	Object Oriented Modelling and Design
18CS643	Cloud Computing and its Applications
18CS644	Advanced JAVA and J2EE
18CS645	System Modelling and Simulation
Open Elective –A (Not for CSE / ISE Programs)	
18CS651	Mobile Application Development
18CS652	Introduction to Data Structures and Algorithms
18CS653	Programming in JAVA
18CS654	Introduction to Operating System

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS65X).

Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.

Mini-project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

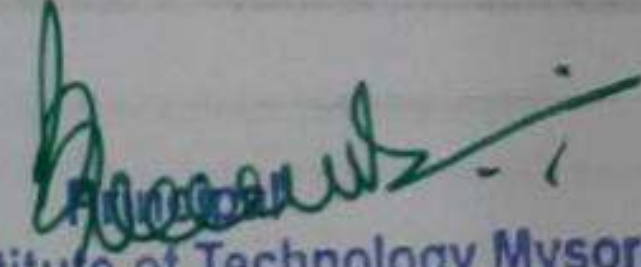
SEE for Mini-project:

(i) **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


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Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

VII SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CS71	Artificial Intelligence and Machine Learning	CS / IS	4	--	--	03	40	60	100	4
2	PCC	18CS72	Big Data Analytics	CS / IS	4	--	--	03	40	60	100	4
3	PEC	18CS73X	Professional Elective – 2	CS / IS	3	--	--	03	40	60	100	3
4	PEC	18CS74X	Professional Elective – 3	CS / IS	3	--	--	03	40	60	100	3
5	OEC	18CS75X	Open Elective –B	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CSL76	Artificial Intelligence and Machine Learning Laboratory	CS / IS	--	--	2	03	40	60	100	2
7	Project	18CSP77	Project Work Phase – 1	CS / IS	--	--	2	--	100	--	100	1
8	INT	--	Internship	(If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters)								
TOTAL					17	--	04	18	340	360	700	20

Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.

Professional Elective - 2

Course code under 18CS73X	Course Title
18CS731	Software Architecture and Design Patterns
18CS732	High Performance Computing
18CS733	Advanced Computer Architecture
18CS734	User Interface Design

Professional Electives – 3

Course code under 18CS74X	Course Title
18CS741	Digital Image Processing
18CS742	Network management
18CS743	Natural Language Processing
18CS744	Cryptography
18CS745	Robotic Process Automation Design & Development

Open Elective –B (Not for CSE / ISE Programs)

18CS751	Introduction to Big Data Analytics
18CS752	Python Application Programming
18CS753	Introduction to Artificial Intelligence
18CS754	Introduction to Dot Net framework for Application Development

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS75X). Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
 - The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
 - A similar course, under any category, is prescribed in the higher semesters of the programme.
- Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.

Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


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Scheme of Teaching and Examination 2018 – 19
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VIII SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CS81	Internet of Things	CS / IS	3	--	--	03	40	60	100	3
2	PEC	18CS82X	Professional Elective – 4	CS / IS	3	--	--	03	40	60	100	3
3	Project	18CSP83	Project Work Phase – 2	CS / IS	--	--	2	03	40	60	100	8
4	Seminar	18CSS84	Technical Seminar	CS / IS	--	--	2	03	100	--	100	1
5	INT	18CSI85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.

Professional Electives – 4

Course code under 18CS82X	Course Title
18CS821	Mobile Computing
18CS822	Storage Area Networks
18CS823	NoSQL Database
18CS824	Multicore Architecture and Programming

Project Work CIE procedure for Project Work Phase - 2:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

(i) **Single discipline:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).


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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: B.E: Electronics & Communication Engineering												
VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18EC61	Digital Communication		3	2	--	03	40	60	100	4
2	PCC	18EC62	Embedded Systems		3	2	--	03	40	60	100	4
3	PCC	18EC63	Microwave and Antennas		3	2	--	03	40	60	100	4
4	PEC	18XX64X	Professional Elective -I		3	--	--	03	40	60	100	3
5	OEC	18XX65X	Open Elective -A		3	--	--	03	40	60	100	3
6	PCC	18ECL66	Embedded Systems Laboratory		--	2	2	03	40	60	100	2
7	PCC	18ECL67	Communication Laboratory		--	2	2	03	40	60	100	2
8	MP	18ECMP68	Mini-project		--	--	2	03	40	60	100	2
9	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	10	6	24	320	480	800	24
Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.												
Professional Elective -I												
Course code under 18XX64X		Course Title										
18EC641		Operating System										
18EC642		Artificial Neural Networks										
18EC643		Data Structures using C++										
18EC644		Digital System Design Using Verilog										
18EC645		Nanoelectronics										
18EC646		Python Application Programming										

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(Effective from the academic year 2018 – 19)												
Programme: B.E: Electronics & Communication Engineering												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathe matics	2	2	--	03	40	60	100	3
2	PCC	18EC32	Network Theory		3	2	--	03	40	60	100	4
3	PCC	18EC33	Electronic Devices		3	0	--	03	40	60	100	3
4	PCC	18EC34	Digital System Design		3	0	--	03	40	60	100	3
5	PCC	18EC35	Computer Organization & Architecture		3	0	--	03	40	60	100	3
6	PCC	18EC36	Power Electronics & Instrumentation		3	0	--	03	40	60	100	3
7	PCC	18ECL37	Electronic Devices & Instrumentation Laboratory		--	2	2	03	40	60	100	2
8	PCC	18ECL38	Digital System Design Laboratory		--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
		Examination is by objective type questions										
TOTAL					17	10	04	24	420	480	900	24
					OR	OR		OR	OR			
					18	08		26	360	540		


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Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.
18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40% of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: B.E: Electronics & Communication Engineering

IV SEMESTER

IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability and Statistical Methods	Mathe- matics	2	2	--	03	40	60	100	3
2	PCC	18EC42	Analog Circuits		3	2	--	03	40	60	100	4
3	PCC	18EC43	Control Systems		3	0	--	03	40	60	100	3
4	PCC	18EC44	Engineering Statistics & Linear Algebra		3	0	--	03	40	60	100	3
5	PCC	18EC45	Signals & Systems		3	0	--	03	40	60	100	3
6	PCC	18EC46	Microcontroller		3	0	--	03	40	60	100	3
7	PCC	18ECL47	Microcontroller Laboratory		--	2	2	03	40	60	100	2
8	PCC	18ECL48	Analog Circuits Laboratory		--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
							Examination is by objective type questions					
TOTAL					17	10	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	08		26	360	540		

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Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.
 18KVK39/49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and
 18KAK39/49 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics – II	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40% of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: B.E: Electronics & Communication Engineering

V SEMESTER

V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18ES51	Technological Innovation Management and Entrepreneurship		3	0	--	03	40	60	100	3
2	PCC	18EC52	Digital Signal Processing		3	2	--	03	40	60	100	4
3	PCC	18EC53	Principles of Communication Systems		3	2	--	03	40	60	100	4
4	PCC	18EC54	Information Theory & Coding		3	--	--	03	40	60	100	3
5	PCC	18EC55	Electromagnetic Waves		3	--	--	03	40	60	100	3
6	PCC	18EC56	Verilog HDL		3	--	--	03	40	60	100	3
7	PCC	18ECL57	Digital Signal Processing Laboratory		--	2	2	03	40	60	100	2
8	PCC	18ECL58	HDL Laboratory		--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					19	8	4	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: B.E: Electronics & Communication Engineering												
VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18EC61	Digital Communication		3	2	--	03	40	60	100	4
2	PCC	18EC62	Embedded Systems		3	2	--	03	40	60	100	4
3	PCC	18EC63	Microwave and Antennas		3	2	--	03	40	60	100	4
4	PEC	18XX64X	Professional Elective -I		3	--	--	03	40	60	100	3
5	OE	18XX65X	Open Elective -A		3	--	--	03	40	60	100	3
6	PCC	18ECL66	Embedded Systems Laboratory		--	2	2	03	40	60	100	2
7	PCC	18ECL67	Communication Laboratory		--	2	2	03	40	60	100	2
8	MP	18ECMP68	Mini-project		--	--	2	03	40	60	100	2
9	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	10	6	24	320	480	800	24
Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.												
Professional Elective -I												
Course code under 18XX64X		Course Title										
18EC641		Operating System										
18EC642		Artificial Neural Networks										
18EC643		Data Structures using C++										
18EC644		Digital System Design Using Verilog										
18EC645		Nanoelectronics										
18EC646		Python Application Programming										

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OPEN ELECTIVE group-B	
18EC651	Signal Processing
18EC652	Sensors & Signal Conditioning
18EC653	Virtual Instrumentation
18EC654	Microcontrollers
18EC655	Basic VLSI Design

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Mini-project work:
Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:
(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.
The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college.
The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:
(i) **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

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Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 - 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 - 19)

Programme: B.E: Electronics & Communication Engineering

VII SEMESTER												
Sl. No	Course and Course code	Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits		
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks	
1	PCC	18EC71	Computer Networks	L	T	P	03	40	60	100	3	
2	PCC	18EC72	VLSI Design	3	--	--	03	40	60	100	3	
3	PEC	18XX73X	Professional Elective - 2	3	--	--	03	40	60	100	3	
4 *	PEC	18XX74X	Professional Elective - 3	3	--	--	03	40	60	100	3	
5	OEC	18XX75X	Open Elective -B	3	--	--	03	40	60	100	3	
6	PCC	18ECL76	Computer Networks Lab	--	2	2	03	40	60	100	2	
7	PCC	18ECL77	VLSI Laboratory	--	2	2	03	40	60	100	2	
8	Project	18ECP78	Project Work Phase - 1	--	--	2	--	100	--	100	1	
9	Internship	--	Internship	(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)								
TOTAL				15	04	06	21	38	420	800	20	
Note: PCC: Professional core, PEC: Professional Elective.												
Professional Elective - 2												
Course code under 18XX73X		Course Title										
18EC731		Real Time Systems										
18EC732		Satellite Communication										
18EC733		Digital Image Processing										
18EC734		DSP Algorithms & Architecture										

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Course code under 18XX74X	Course Title
18EC741	IOT & Wireless Sensor Networks
18EC742	Automotive Electronics
18EC743	Multimedia Communication
18EC744	Cryptography
18EC745	Machine Learning with Python
Open Elective - B	
18EC751	Communication Theory
18EC752	Neural Networks
18EC753	ARM Embedded Systems
18EC754	Digital Systems Design using VHDL
<p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator / Advisor / Mentor.</p>	
<p>Project work:</p> <p>Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.</p> <p>CIE procedure for Project Work Phase - 1:</p> <p>(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.</p> <p>The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.</p> <p>(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.</p>	

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


Principal

Maharaja Institute of Technology Mysore
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Srirangapatna Taluk
Mandya District - 571417

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: B.E: Electronics & Communication Engineering

VIII SEMESTER

Sl. No	Course and Course code	Course Title	Teaching Department	Teaching Hours/Week			Examination				Credits
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18EC81	Wireless and Cellular Communication	L	T	P	03	40	60	100	3
2	PEC	18XX82X		3	--	--	03	40	60	100	3
3	Project	18ECP83		3	--	--	03	40	60	100	3
4	Seminar	18ECS84	Project Work Phase - 2	--	--	2	03	40	60	100	8
			Technical Seminar	--	--	2	03	100	--	100	1
5	Internship	18ECI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)			03	40	60	100	3
TOTAL				06	--	04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective.

Professional Elective - 4

Course code under 18XX82X	Course Title
18EC821	Network Security
18EC822	Micro Electro Mechanical Systems
18EC823	Radar Engineering
18EC824	Optical Communication Networks
18EC825	Biomedical Signal Processing

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Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
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 Mandya District - 571477

Project Work

CIE procedure for Project Work Phase - 2:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

(i) **Single discipline:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
		Examination is by objective type questions										
TOTAL					17	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
----	------	------------	----------------------------	-------------	----	----	----	----	----	----	-----	---

(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech. programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B.Tech./B. Plan. day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

(Effective from the academic year 2018-19)

IV SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS42	Design and Analysis of Algorithms	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS43	Operating Systems	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18SC44	Microcontroller and Embedded Systems	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS45	Object Oriented Concepts	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS46	Data Communication	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL47	Design and Analysis of Algorithm Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL48	Microcontroller and Embedded Systems Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK49	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
		Examination is by objective type questions										
TOTAL					17	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and **18KAK49** Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the student have to fulfil the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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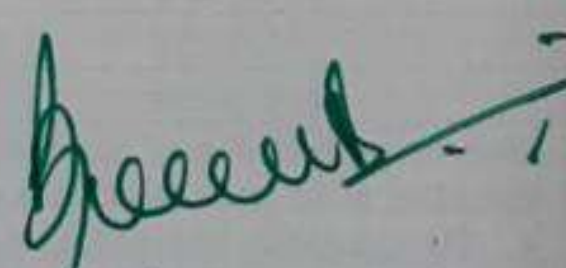
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

V SEMESTER

SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT Industry	HSMC	2	2	–	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	–	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	–	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	–	–	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	–	–	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	–	–	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	–	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	–	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental	1	–	–	02	40	60	100	1
				[Paper setting: Civil Engineering Board]								
TOTAL					18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 - 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 - 19)

Scheme of Choice Based Credit System (CBCS)												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
VI SEMESTER				Teaching Department	Teaching Hours /Week			Examination				Credits
Sl. No	Course and Course code		Course Title		Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18IS61	File Structures	CS / IS	3	2	--	03	40	60	100	4
2	PCC	18IS62	Software Testing	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2	--	03	40	60	100	4
4	PEC	18CS64X	Professional Elective -1	CS / IS	3	--	--	03	40	60	100	3
5	OEC	18CS65X	Open Elective –A	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18ISL66	Software Testing Laboratory	CS / IS	--	2	2	03	40	60	100	2
7	PCC	18ISL67	File Structures Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CS / IS	--	--	2	03	40	60	100	2
9	INT	--	Internship	(To be carried out during the intervening vacations of VI and VII semesters)				--	--	--	--	--
TOTAL					15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.

Professional Elective -1

Course code under 18XX64X	Course Title
18CS641	Data Mining and Data Warehousing
18CS642	Object Oriented Modelling and Design
18CS643	Cloud Computing and its Applications
18CS644	Advanced JAVA and J2EE
18IS645	Information Management System

Open Elective -A (Not for CSE / ISE Programs)

18CS651	Mobile Application Development
18CS652	Introduction to Data Structures and Algorithms
18CS653	Programming in JAVA
18CS654	Introduction to Operating System

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS65X).
 Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.

Mini-project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

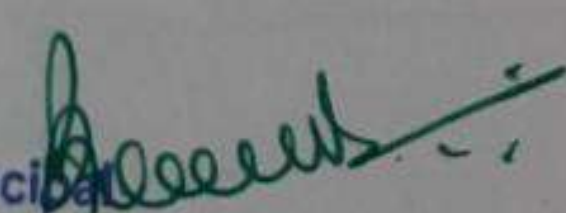
- (i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
- (ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

- (i) **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.
- (ii) **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
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(Effective from the academic year 2018 – 19)

VII SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CS71	Artificial Intelligence and Machine Learning	CS / IS	4	--	--	03	40	60	100	4
2	PCC	18CS72	Big Data Analytics	CS / IS	4	--	--	03	40	60	100	4
3	PEC	18CS73X	Professional Elective – 2	CS / IS	3	--	--	03	40	60	100	3
4	PEC	18CS74X	Professional Elective – 3	CS / IS	3	--	--	03	40	60	100	3
5	OEC	18CS75X	Open Elective –B	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CSL76	Artificial Intelligence and Machine Learning Laboratory	CS / IS	--	--	2	03	40	60	100	2
7	Project	18CSP77	Project Work Phase – 1	CS / IS	--	--	2	--	100	--	100	1
8	INT	--	Internship	(If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters)								
TOTAL					17	--	04	18	340	360	700	20

Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.

Professional Elective - 2

Course code under 18CS73X	Course Title
18CS731	Software Architecture and Design Patterns
18CS732	High Performance Computing
18CS733	Advanced Computer Architectures
18CS734	User Interface Design

Professional Electives – 3

Course code under 18CS74X	Course Title
18CS741	Digital Image Processing
18CS742	Network management
18CS743	Natural Language Processing
18CS744	Cryptography
18CS745	Robotic Process Automation Design & Development
Open Elective –B (Not for CSE / ISE Programs)	
18CS751	Introduction to Big Data Analytics
18CS752	Python Application Programming
18CS753	Introduction to Artificial Intelligence
18CS754	Introduction to Dot Net framework for Application Development

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS75X).

Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.

Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

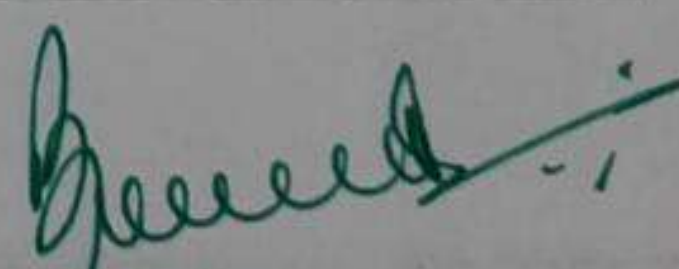
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CS81	Internet of Things	CS / IS	3	--	--	03	40	60	100	3
2	PEC	18CS82X	Professional Elective – 4	CS / IS	3	--	--	03	40	60	100	3
3	Project	18CSP83	Project Work Phase – 2	CS / IS	--	--	2	03	40	60	100	8
4	Seminar	18CSS84	Technical Seminar	CS / IS	--	--	2	03	100	--	100	1
5	INT	18CSI85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.												
Professional Electives – 4												
Course code under 18CS82X		Course Title										
18CS821		Mobile Computing										
18CS822		Storage Area Networks										
18CS823		NoSQL Database										
18CS824		Multicore Architecture and Programming										
Project Work CIE procedure for Project Work Phase - 2:												
(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
SEE for Project Work Phase - 2:												
(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.												
(ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.												
Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).												


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Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Transform calculus, fourier series and Numerical techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18ME32	Mechanics of Materials		3	2	--	03	40	60	100	4
3	PCC	18ME33	Basic Thermodynamics		3	0	--	03	40	60	100	3
4	PCC	18ME34	Material Science		3	0	--	03	40	60	100	3
5	PCC	18ME35A or 18ME35B	Metal cutting and forming Metal Casting and Welding		3	0	--	03	40	60	100	3
6	PCC	18ME36A or 18ME36B	Computer Aided Machine Drawing/ Mechanical Measurements and Metrology		1 3	4 0	--	03	40	60	100	3
7	PCC	18MEL37A or 18MEL37B	Material Testing lab Mechanical Measurements and Metrology lab		--	2	2	03	40	60	100	2
8	PCC	18MEL38A 18MEL38B	Workshop and Machine Shop Practice (Consists of Fitting, and Machining) Foundry, Forging and Welding lab		--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49 18KAK39/49 OR 18CPC39	Vyavaharika Kannada (Kannada for communication)/ Aadalitha Kannada (Kannada for Administration) Constitution of India, Professional Ethics and Cyber Law	HSMC	-- 1 --	2 -- --	-- -- --	-- 02 --	100 40 60	-- -- --	100 -- --	1
TOTAL					17	10	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					19	14		26	360	540		
Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.												
18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.												
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.												
b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.												
Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs												
Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.												


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IV SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Mathematics	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18ME42	Applied Thermodynamics		3	2	--	03	40	60	100	4
3	PCC	18ME43	Fluid Mechanics		3	0	--	03	40	60	100	3
4	PCC	18ME44	Kinematics of Machines		3	0	--	03	40	60	100	3
5	PCC	18ME45A	Metal cutting and forming		3	0	--	03	40	60	100	3
		18ME45B	Metal Casting and Welding									
6	PCC	18ME46A or	Computer Aided Machine Drawing/		1	4	--	03	40	60	100	3
		18ME46B	Mechanical Measurements and Metrology		3	0						
7	PCC	18MEL47A or	Material Testing lab		--	2	2	03	40	60	100	2
		18MEL47B	Mechanical Measurements and Metrology lab									
8	PCC	18MEL48A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)		--	2	2	03	40	60	100	2
		18MEL48B	Foundry, Forging and Welding lab									
9	HSMC	18KVK49/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK49/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPH49	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	10	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					19	14		26	360	540		

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

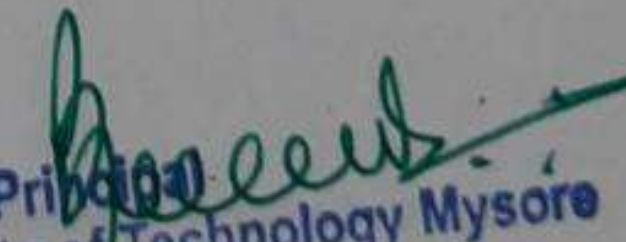
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the student have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.


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(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18ME51	Management and Economics		2	2	--	03	40	60	100	3
2	PCC	18ME52	Design of Machine Elements I		3	2	--	03	40	60	100	4
3	PCC	18ME53	Dynamics of Machines		3	2	--	03	40	60	100	4
4	PCC	18ME54	Turbo Machines		3	--	--	03	40	60	100	3
5	PCC	18ME55	Fluid Power Engineering		3	--	--	03	40	60	100	3
6	PCC	18ME56	Operations Management		3	--	--	03	40	60	100	3
7	PCC	18MEL57	Fluid Mechanics/Machines lab		--	2	2	03	40	60	100	2
8	PCC	18MEL58	Energy Conversion Lab		--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental	1	--	--	02	40	60	100	1
				[Paper setting: Civil Engineering Board]								
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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(Effective from the academic year 2019-2020)												
VI SEMESTER				Teaching Department	Teaching Hours /Week			Examination				Credits
Sl. No	Course and Course code		Course Title		Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ME61	Finite Element Methods		3	2	--	03	40	60	100	4
2	PCC	18ME62	Design of Machine Elements II		3	2	--	03	40	60	100	4
3	PCC	18ME63	Heat Transfer		3	2	--	03	40	60	100	3
4	PEC	18ME64X	Professional Elective -I		3	--	--	03	40	60	100	3
5	OEC	18ME65X	Open Elective -A		3	--	--	03	40	60	100	3
6	PCC	18MEL66	Computer Aided Modelling and Analysis Lab		--	2	2	03	40	60	100	2
7	PCC	18MEL67	Heat Transfer Lab		--	2	2	03	40	60	100	2
8	MP	18MEM68	Mini-project		--	--	2	03	40	60	100	2
9	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

Professional Elective -I

Course code under 18XX64X	Course Title	Course code under 18XX64X	Course Title
18ME641	Non-Traditional Machining	18ME644	Vibrations and Noise Engineering
18ME642	Refrigeration and Air conditioning	18ME645	Composite Materials Technology
18ME643	Theory of Elasticity	18ME646	Entrepreneurship Development

Open Elective -A

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Mini-project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

(i) **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.


Principal
Maharaja Institute of Technology Mysore
 Belawadi, Naguvanahalli Post
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 Mandya District - 571477

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

VII SEMESTER

(Effective from the academic year 2018 – 19)												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18ME71	Control Engineering		L	T	P					
2	PCC	18ME72	Computer Aided Design and Manufacturing		3	--	--	03	40	60	100	3
3	PEC	18ME73X	Professional Elective - 2		3	--	--	03	40	60	100	3
4	PEC	18ME74X	Professional Elective - 3		3	--	--	03	40	60	100	3
5	OEC	18ME75X	Open Elective -B		3	--	--	03	40	60	100	3
6	PCC	18MEL76	Computer Integrated Manufacturing Lab		--	2	2	03	40	60	100	2
	PCC	18MEL77	Design Lab		--	2	2	03	40	60	100	2
7	Project	18MEP78	Project Work Phase - 1		--	--	2	--	100	--	100	1
8	Internship	--	Internship	(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)								
TOTAL					15	04	06	18	340	360	700	20

Professional Elective - 2

Course code under 18XX73X	Course Title	Course code under 18XX73X	Course Title
18ME731	Design for Manufacture	18ME734	Total Quality Management
18ME732	Automation and Robotics	18ME735	Operations Research
18ME733	Computational Fluid Dynamics		

Professional Electives - 3

Course code under 18XX74X	Course Title	Course code under 18XX74X	Course Title
18ME741	Additive Manufacturing	18ME744	Mechatronics
18ME742	Emerging Sustainable Building Cooling Technologies	18ME745	Project Management
18ME743	Theory of Plasticity		

Open Elective -B

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the Internship requirements.

Principal

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18ME81	Energy Engineering		3	--	--	03	40	60	100	3
2	PEC	18ME82X	Professional Elective - 4		3	--	--	03	40	60	100	3
3	Project	18MEP83	Project Work Phase - 2		--	--	2	03	40	60	100	8
4	Seminar	18MES84	Technical Seminar		--	--	2	03	100	--	100	1
5	Internship	18XX185	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective.

Professional Electives - 4

Course code under 18XX82X	Course Title	Course code under 18XX82X	Course Title
18ME821	CNC Machine Tools	18ME824	Automobile Engineering
18ME822	Tribology	18ME825	Tool Design
18ME823	Non-Destructive Testing and Evaluation	18ME826	Fracture Mechanics

Project Work

CIE procedure for Project Work Phase - 2:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

(i) **Single discipline:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).

[Signature]
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B.E. Mechanical Engineering					
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)					
SEMESTER - VI					
OPEN ELECTIVE - A					
Course Code	18ME65X		CIE Marks	40	
Teaching Hours/Week (L:T:P)	3:0:0		SEE Marks	60	
Credits	03		Exam Hours	03	
Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (For syllabus, please refer to the concerned programme syllabus book or VTU website vtu.ac.in may be visited.).					
Selection of an open elective shall not be allowed if,					
<ul style="list-style-type: none">• The candidate has studied the same course during the previous semesters of the programme.• The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.• A similar course, under any category, is prescribed in the higher semesters of the programme.					
Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.					
Sl. No.	Board and the Department offering the Electives		Course		Course Title
			Sl. No.	code under 18XX65X	
1	ME	Mechanical Engineering	1	18ME651	Non-Conventional Energy Sources
			2	18ME652	World Class Manufacturing
			3	18ME653	Supply Chain Management
			4	18ME654	Advanced Materials Technology

B.E Mechanical Engineering Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - VII OPEN ELECTIVE - B					
Course Code	18ME75X	CIE Marks	40		
Teaching Hours/Week (L:T:P)	3:0:0	SEE Marks	60		
Credits	03	Exam Hours	03		
Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (For syllabus, please refer to the concerned programme syllabus book or VTU website vtu.ac.in may be visited.). Selection of an open elective shall not be allowed if, <ul style="list-style-type: none"> The candidate has studied the same course during the previous semesters of the programme. The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. A similar course, under any category, is prescribed in the higher semesters of the programme. Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.					
Sl NO	Board and the Department offering the Electives		Course		Course Title
			Sl No	code under 18XX75X	
2	ME	Mechanical Engineering	1	18ME751	Energy and Environment
			2	18ME752	Automotive Engineering
			3	18ME753	Industrial Safety
			4	18ME754	Optimization Techniques


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**SCHEME OF TEACHING AND EXAMINATION
MASTER OF BUSINESS ADMINISTRATION**

I SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical / Field Work / Assignment *	Total		IA	Exam		
16MBA11	Management & Organizational Behaviour	Core Course	3	2	5	3	20	80	100	4
16MBA12	Managerial Economics	Core Course	3	2	5	3	20	80	100	4
16MBA13	Accounting for Managers	Core Course	3	2	5	3	20	80	100	4
16MBA14	Quantitative Methods	Core Course	3	2	5	3	20	80	100	4
16MBA15	Marketing Management	Core Course	3	2	5	3	20	80	100	4
16MBA16	Managerial Communications	Core Course	3	2	5	3	20	80	100	4
	Total		18	12	30		120	480	600	24

* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

Principal

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Bela-wadi, Naguvanahalli Post

Srirangapatna Taluk

Mandya District - 571477

II SEMESTER										
Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical / Field Work / Assignment *	Total		IA	Exam		
16MBA21	Human Resource Management	Core Course	3	2	5	3	20	80	100	4
16MBA22	Financial Management	Core Course	3	2	5	3	20	80	100	4
16MBA23	Research Methods	Core Course	3	2	5	3	20	80	100	4
16MBA24	Business Law and Policy	Core Course	3	2	5	3	20	80	100	4
16MBA25	Strategic Management	Core Course	3	2	5	3	20	80	100	4
16MBA26	Entrepreneurship Development	Core Course	3	2	5	3	20	80	100	4
	Total		18	12	30		120	480	600	24

* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

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III SEMESTER
(Core Specialisation)

Subject Code			Category	Teaching hours / week			Duration of Exam (Hours)		Marks for		Total Marks	Credits
Marketing	Finance	Human Resource		Lecture	Practical / Field Work / Assignment **	Total			IA	Exam		
16MBAMM301	16MBAFM301	16MBAHR301	Foundation Course	3	2	5	3	20	80	100	3	
16MBAMM302	16MBAFM302	16MBAHR302	Foundation Elective	3	2	5	3	20	80	100	3	
16MBAMM303	16MBAFM303	16MBAHR303	Elective	3	2	5	3	20	80	100	3	
16MBAMM304	16MBAFM304	16MBAHR304	Foundation Course	3	2	5	3	20	80	100	3	
16MBAMM305	16MBAFM305	16MBAHR305	Foundation Elective	3	2	5	3	20	80	100	3	
16MBAMM306	16MBAFM306	16MBAHR306	Elective	3	2	5	3	20	80	100	3	
16MBAIN307			Internship *	0	8	8	-	50	50	100	4	
			Industrial Visit	0	0	0	0	0	00	00	0	
				18	12	30		120	480	700	22	

* Internship will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester. Total number of teaching hours per week is excluding internship workload.

** Practical / Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.
Industrial visit is a mandatory activity with zero credits

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Mandya District - 571477

III SEMESTER
(Core Specialisation Subjects)

Marketing Specialisation		Finance Specialisation		Human Resource Specialisation	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
16MBAMM301	Consumer Behavior	16MBAFM301	Principles & Practices of Banking	16MBAHR301	Industrial Relations & Legislations
16MBAMM302	Retail Management	16MBAFM302	Investment Banking & Financial Services	16MBAHR302	Recruitment & Selection
16MBAMM303	Services Marketing	16MBAFM303	Investment Management	16MBAHR303	Compensation & Benefits
16MBAMM304	Marketing Research	16MBAFM304	Advanced Financial Management	16MBAHR304	Learning & Development
16MBAMM305	Business Marketing	16MBAFM305	Cost Management	16MBAHR305	Knowledge Management
16MBAMM306	Supply Chain Management	16MBAFM306	Strategic Credit Management	16MBAHR306	Conflict & Negotiation Management

III SEMESTER (Dual Specialisation)

Subject Code			Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
Marketing & Finance	Finance & HR	HR & Marketing		Lecture	Practical / Field Work / Assignment **	Total		IA	Exam		
16MBAMM301	16MBAFM301	16MBAHR301	Foundation Course	3	2	5	3	20	80	100	3
16MBAMM302	16MBAFM302	16MBAHR302	Foundation Elective	3	2	5	3	20	80	100	3
16MBAMM303	16MBAFM303	16MBAHR303	Elective	3	2	5	3	20	80	100	3
16MBAFM301	16MBAHR301	16MBAMM301	Foundation Course	3	2	5	3	20	80	100	3
16MBAFM302	16MBAHR302	16MBAMM302	Foundation Elective	3	2	5	3	20	80	100	3
16MBAFM303	16MBAHR303	16MBAMM303	Elective	3	2	5	3	20	80	100	3
16MBAIN307			Internship *	0	8	8	---	50	50	100	4
			Industrial Visit	0	0	0	0	00	00	00	0
				18	12	30		120	480	700	22

* Internship will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester. Total number of teaching hours per week is excluding internship workload.

** Practical / Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload. Industrial visit is a mandatory activity with zero credits

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Mandya District - 571477

IV SEMESTER
(Core Specialisation)

Subject Code			Category	Teaching hours / week			Duration of Exam (Hours)		Marks for		Total Marks	Credits
Marketing	Finance	Human Resource		Lecture	Practical / Field Work / Assignment **	Total			IA	Exam		
16MBAMM401	16MBAFM401	16MBAHR401	Foundation Course	3	2	5	3		20	80	100	3
16MBAMM402	16MBAFM402	16MBAHR402	Foundation Elective	3	2	5	3		20	80	100	3
16MBAMM403	16MBAFM403	16MBAHR403	Elective	3	2	5	3		20	80	100	3
16MBAMM404	16MBAFM404	16MBAHR404	Foundation Course	3	2	5	3		20	80	100	3
16MBAMM405	16MBAFM405	16MBAHR405	Foundation Elective	3	2	5	3		20	80	100	3
16MBAMM406	16MBAFM406	16MBAHR406	Elective	3	2	5	3		20	80	100	3
16MBAPR407			Project Work *	0	8	8	---		50	150	200	12
											800	30

* Project work will be carried out after third semester and shall be evaluated during fourth semester. The internal assessment will be made for 50 marks. In the examination, the total marks of 150 shall be allotted as follows: 50 marks each for report evaluation by internal and external examiners respectively and remaining 50 marks for the viva voce examination, jointly assessed by internal and external examiners.

** Practical / Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

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Mandya District - 571417

(Core Specialisation Subjects)

Marketing Specialisation		Financial Specialisation		Human Resource Specialisation	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
16MBAMM401	Sales Management	16MBAFM401	Mergers, Acquisitions & Corporate Restructuring	16MBAHR401	Public relations
16MBAMM402	Integrated Marketing Communication	16MBAFM402	Risk Management and Insurance	16MBAHR402	Workplace Ethics & Value Systems
16MBAMM403	E-Marketing	16MBAFM403	Tax Management	16MBAHR403	International Human Resource Management
16MBAMM404	Strategic Brand Management	16MBAFM404	International Financial Management	16MBAHR404	Organisation Change and Development
16MBAMM405	Rural Marketing	16MBAFM405	Financial Derivatives	16MBAHR405	Strategic Talent Management
16MBAMM406	International Marketing Management	16MBAFM406	Corporate Valuation	16MBAHR406	Personal Growth & Interpersonal Effectiveness

IV SEMESTER
(Dual Specialisation)

[illegible]

- Project work will be carried out after third semester and shall be evaluated during fourth semester. The internal assessment will be marked 0 marks. In the examination, the total marks of 150 shall be allotted as follows: 50 marks each for report evaluation by internal and external examiners. Marks for the viva voce examination, jointly assessed by internal and external examiners.

ment will be marked 10 marks. In the examination centre please check the following
 Maharaja Srinagarpet chandrabhaga Mysore
 Belawadi, Nagayana halli, ROH
 Sringapatana Taluk
 Mandya District - 571477

**** Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.**

IV SEMESTER
(Dual Specialisation Subjects)

Marketing & Finance Specialisation		Marketing & Human Resources Specialisation		Finance & Human Resource Specialisation	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
16MBAMM401	Sales Management	16MBAMM401	Sales Management	16MBAFM401	Mergers, Acquisitions & Corporate Restructuring
16MBAMM402	Integrated Marketing Communication	16MBAMM402	Integrated Marketing Communication	16MBAFM402	Risk Management and Insurance
16MBAMM403	E-Marketing	16MBAMM403	E-Marketing	16MBAFM403	Tax Management
16MBAFM401	Mergers, Acquisitions & Corporate Restructuring	16MBAHR401	Public relations	16MBAHR401	Public relations
16MBAFM402	Risk Management and Insurance	16MBAHR402	Workplace Ethics & Value Systems	16MBAHR402	Workplace Ethics & Value Systems
16MBAFM403	Tax Management	16MBAHR403	International Human Resource Management	16MBAHR403	International Human Resource Management

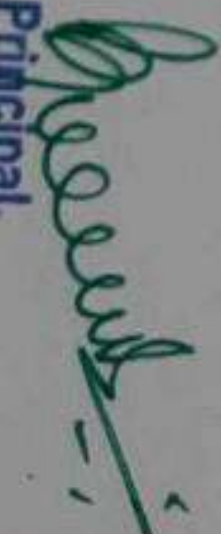
Plan of action (proposed)

1. Implementation of CBCS for MBA Programme will be effective from next academic year, i.e., 2016-17
2. Review of Scheme of Teaching and Examinations being finalized
3. Award of Credits for various components of MBA Programme
4. Allotment of marks for the subjects/papers, seminar and summer project.
80:20 patterns of marks for external examination and internal (IA) marks respectively is to be adopted for all the subjects, except Internship, for which the pattern will be 50:50 basis for internal and external assessments respectively.

Question paper for theory examination shall consist of Part A and B as under:

- Part A shall consist of 5 questions subdivided into a, b, c in 3+7+10 mixed pattern
- Part B shall be a *compulsory* question on Case study/ Practical problem for 20 marks (may contain a maximum of 4 sub-questions).

IA Pattern: 20 marks in each subject, comprising of 10 marks for tests and 10 marks for assignments/seminars/practical exercises/quiz/oral exams


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MBA Program Structure and Credits			
Year	Particulars	Credits	Total Credits
I	I Semester	24	48
	II Semester	24	
	III Semester	24	
II	Internship (III Semester)	4	52
	IV Semester	18	
	Project Work(IV Semester)	6	
Total		100	100

PROGRAMME OUTCOMES STUDENT WILL BE ABLE TO (POS)

- PO1. Acquire Sufficient theoretical knowledge and are enabled to apply them to solve practical problems in business and other organizations / institutions of importance.
- PO2. Apply Effective communication skills with a high degree of lateral and critical thinking that enhances learn ability, developed for being continuously employable.
- PO3. Demonstrate leadership qualities, ethically sound, enabled with decision making skills that reflect a high degree of social consciousness
- PO4. Recognise the need for sustained research orientation to comprehend a growingly complex, economic, legal and ethical environment
- PO5. Possess self-sustaining entrepreneurship qualities that encourages calculated risk taking.

Maharaja Institute of Technology Mysore
 Belawadi, Naguvannahalli Post
 Srirangapatna Taluk
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[Signature]
 Principal

SCHEME OF TEACHING AND EXAMINATION

I Semester									
Subject Code	Title of the Subject	Course Category	Teaching hours			Duration of Exam hours	Marks for		Credits
			Lecture	Practical Component	Total Hours		CIE	SEE	
18MBA11	Management & Organizational Behavior	Core	4	-	4	3	40	60	4
18MBA12	Managerial Economics	Core	4	-	4	3	40	60	4
18MBA13	Accounting for Managers	Core	4	-	4	3	40	60	4
18MBA14	Business Statistics & Analytics	Core	4	-	4	3	40	60	4
18MBA15	Marketing Management	Core	4	-	4	3	40	60	4
18MBA16	Managerial Communications	Core	4	-	4	3	40	60	4
Total			24	-	24	-	240	360	24

Note:

- Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard Case Centre. The student cannot assume the same cases will be part of the question paper.
- One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

II Semester									
Subject Code	Title of the Subject	Course Category	Teaching hours			Duration of Examination Hours	Marks for		Credits
			Lecture	Practical Component	Total		CIE	SEE	
18MBA21	Human Resource Management	Core	4	-	4	3	40	60	4
18MBA22	Financial Management	Core	4	-	4	3	40	60	4
18MBA23	Research Methodology	Core	4	-	4	3	40	60	4
18MBA24	Legal and Business Environment	Core	4	-	4	3	40	60	4
18MBA25	Strategic Management	Core	4	-	4	3	40	60	4
18MBA26	Entrepreneurship Development	Core	4	-	4	3	40	60	4
Total			24	-	24	-	240	360	24

Note:

- Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard Case Centre. The student cannot assume the same cases will be part of the question paper.
- One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

IV Semester (Core Specialization)											
Subject Code			Course Category			Teaching hours per week			Duration of Examination hours		
Marketing	Finance	Human Resource	Elective	Lecture	Practical Component	Total	CIE	SEE	Total Marks	Credits	
18MBAMN401 Sales Management	18MBAFM401 Mergers, Acquisitions & Corporate Restructuring	18MBAPR401 Public Relations	Elective	3	-	3	3	40	60	100	3
18MBAMN402 Integrated Marketing Communication	18MBAFM402 Risk Management and Insurance	18MBAPR402 Organizational Leadership	Elective	3	-	3	3	40	60	100	3
18MBAMM403 Digital and Social Media Marketing	18MBAFM403 Indirect Taxation	18MBAPR403 International Human Resource Management	Elective	3	-	3	3	40	60	100	3
18MBAMN404 Strategic Brand Management	18MBAFM404 International Financial Management	18MBAPR404 Organization Change and Development	Elective	3	-	3	3	40	60	100	3
18MBAMM405 Rural Marketing	18MBAFM405 Financial Derivatives	18MBAPR405 Strategic Talent Management	Elective	3	-	3	3	40	60	100	3
18MBAMN406 International Marketing Management	18MBAFM406 Corporate Valuation	18MBAPR406 Personal Growth & Interpersonal Effectiveness	Elective	3	-	3	3	40	60	100	3
18MBAPR407 Project Work			Core	0	12	12	-	40	60	100	6
Industrial Visit			Core	-	-	-	-	-	-	-	-
Total				18	12	30	-	280	420	700	24

Note:
1. Course instructions are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.
2. Project work(Six Weeks) will be carried out after third semester and shall be evaluated during fourth semester.

IV Semester (Dual Specialization)											
Subject Code			Course Category			Teaching hours per week			Duration of Examination hours		
Marketing & Finance	Finance & HR	HR & Marketing	Elective	Lecture	Practical Component	Total	CIE	SEE	Total Marks	Credits	
18MBAMN401 Sales Management	18MBAFM401 Mergers, Acquisitions & Corporate Restructuring	18MBAPR401 Public Relations	Elective	3	-	3	3	40	60	100	3
18MBAMM402 Integrated Marketing Communication	18MBAFM402 Risk Management and Insurance	18MBAPR402 Organizational Leadership	Elective	3	-	3	3	40	60	100	3
18MBAMN403 Digital and Social Media Marketing	18MBAFM403 Indirect Taxation	18MBAPR403 International Human Resource Management	Elective	3	-	3	3	40	60	100	3
18MBAMN401 Mergers, Acquisitions & Corporate Restructuring	18MBAPR401 Public Relations	18MBAMN401 Sales Management	Elective	3	-	3	3	40	60	100	3
18MBAFM402 Risk Management and Insurance	18MBAPR402 Organizational Leadership	18MBAMM402 Integrated Marketing Communication	Elective	3	-	3	3	40	60	100	3
18MBAFM403 Indirect Taxation	18MBAPR403 International Human Resource Management	18MBAMM403 Digital and Social Media Marketing	Elective	3	-	3	3	40	60	100	3
18MBAPR407 Project Work			Core	-	12	12	-	40	60	100	6
Industrial Visit			Core	-	-	-	-	-	-	-	-
Total				18	12	30	-	280	420	700	24

Note:
1. Course instructions are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.
2. Project work(Six Weeks) will be carried out after third semester and shall be evaluated during fourth semester.

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III Semester (Core Specialization)											
Subject Code			Course Category		Teaching hours per week			Marks for		Total Marks	Credits
Marketing	Finance	Human Resource	Lecture	Practical Component	Total	Duration of Examination hours	CIE	SEE			
18MBAMM301 Consumer Behavior	18MBAFM301 Banking and Financial Services	18MBAHR301 Recruitment & Selection	Elective	3	2	5	3	40	60	100	4
18MBAMM302 Retail Management	18MBAFM302 Investment Management	18MBAHR302 HR Analytics	Elective	3	2	5	3	40	60	100	4
18MBAMM303 Services Marketing	18MBAFM303 Direct Taxation	18MBAHR303 Compensation & Reward System	Elective	3	2	5	3	40	60	100	4
18MBAMM304 Marketing Research & Analytics	18MBAFM304 Advanced Financial Management	18MBAHR304 Learning & Development	Elective	3	2	5	3	40	60	100	4
18MBAMM305 Business Marketing	18MBAFM305 Cost Management	18MBAHR305 Industrial Relations & Legislations	Elective	3	2	5	3	40	60	100	4
18MBAMM306 Supply Chain Management	18MBAFM306 Project Appraisal Planning & Control	18MBAHR306 Conflict & Negotiation Management	Elective	3	2	5	3	40	60	100	4
18MBAOS307 Organization Study			Core	0	8	8	—	40	60	100	4
Industrial Visit			Core	—	—	—	—	—	—	—	—
Total				18	20	38	—	280	420	700	28

Note:

- Each Course has a theory component of 3hrs (3credits) and a Practical component of 2hrs (1credit). The Time-Table allotment for each course should be (3+2) = 5hours.
- For the practical component, it is mandatory to maintain a practical record.
- 3, 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
- Organization Study (Four Weeks) will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester.
- One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

Rubrics for Organization Study			Rubrics for Viva voce Examination		
Particulars	Marks	Aspects	Marks		
CIE	20	Communication skill	5		
Report Evaluation by the Guide	20	Understanding the Industry	5		
SEE	60	Understanding the Corporate Functions/Company profile	10		
Viva-Voce Examination to be conducted by the Guide and an External examiner from the Industry/Institute	100	McKensy's 7S framework and Porter's Five Force Model	10		
Total	100	SWOT analysis	10		
		Financial statement analysis	10		
		Learning experience	5		
		Overall presentation	5		
		Total	60		

- Note:**
1. Each Course has a theory component of 3hrs (3credits) and a Practical component of 2hrs (1credit). The Time-Table allotment for each course should be (3+2) = 5hours.
 2. For the practical component, it is mandatory to maintain a practical record.
 3. 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
 4. Organization Study (Four Weeks) will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester.
 5. One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
 6. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

Rubrics for Organization Study			Rubrics for Viva voce Examination		
Particulars	Marks	Aspects	Aspects	Marks	Marks
CIE	20	Communication skill	SWOT analysis	10	
Report Evaluation by the Guide	20	Understanding the Industry	Financial statement analysis	10	
Viva-Voce Examination to be conducted by the Guide	60	Understanding the Corporate Functions Company profile	Learning experience	5	
and an External examiner from the Industry/Institute		McKenzy's 7S framework and Porter's Five Force Model	Overall presentation	5	
Total	100		Total	60	

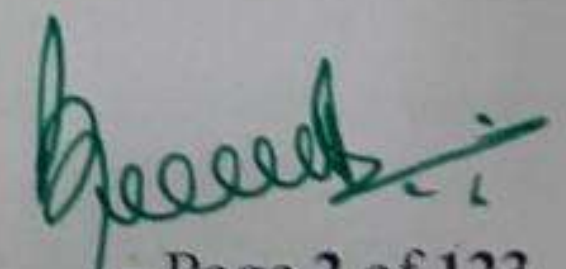
III Semester (Dual Specialization)											
Subject Code			Course Category			Teaching hours per week		Marks for		Total Marks	Credits
Marketing & Finance	Finance & HR	HR & Marketing	Lecture	Practical Component	Total	CIE	SEE				
18MBAMM301 Consumer Behavior	18MBAFM301 Banking and Financial Services	18MBAHR301 Recruitment & Selection	Elective	3	2	5	40	60	100	4	
18MBAMM302 Retail	18MBAFM302 Investment	18MBAHR302 HR Analytics	Elective	3	2	5	40	60	100	4	
18MBAMM303 Services	18MBAFM303 Direct Taxation	18MBAHR303 Compensation & Reward System	Elective	3	2	5	40	60	100	4	
18MBAMM304 Marketing	18MBAHR304 Recruitment & Selection	18MBAFM304 Consumer Behavior	Elective	3	2	5	40	60	100	4	
18MBAMM305 Banking and Financial Services	18MBAHR305 HR Analytics	18MBAFM305 Management	Elective	3	2	5	40	60	100	4	
18MBAMM306 Investment	18MBAHR306 HR Analytics	18MBAFM306 Management	Elective	3	2	5	40	60	100	4	
18MBAMM307 Direct Taxation	18MBAHR307 Reward System	18MBAFM307 Marketing	Elective	3	2	5	40	60	100	4	
18MBAOS307 Organization study			Core	1	8	9	40	60	100	4	
Industrial Visit			Core	1	1	2	40	60	100	4	
Total				18	20	38	280	420	700	28	

- Note:**
1. Each Course has a theory component of 3hrs (3credits) and a Practical component of 2hrs (1credit). The Time-Table allotment for each course should be (3+2) = 5hours.
 2. For the practical component, it is mandatory to maintain a practical record.
 3. 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
 4. Organization Study (Four Weeks) will be carried out by students after second semester during vacation and the report submitted by the students will be assessed internally during the third semester.
 5. One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
 6. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

Rubrics for Organization Study			Rubrics for Viva voce Examination		
Particulars	Marks	Aspects	Aspects	Marks	Marks
CIE	20	Communication skill	SWOT analysis	10	
Report Evaluation by the Guide	20	Understanding the Industry	Financial statement analysis	10	
Viva-Voce Examination to be conducted by the Guide	60	Understanding the Corporate Functions Company profile	Learning experience	5	
and an External examiner from the Industry/Institute		McKenzy's 7S framework and Porter's Five Force Model	Overall presentation	5	
Total	100		Total	60	

SCHEME OF TEACHING AND EXAMINATION

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examinations – 2020 - 21 MASTER OF BUSINESS ADMINISTRATION Choice Based Credit System (CBCS) and Outcome Based Education(OBE)										
I SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20MBA11	Management & Organizational Behavior	03	02	03	40	60	100	4
2	PCC	20MBA12	Managerial Economics	03	02	03	40	60	100	4
3	PCC	20MBA13	Accounting for Managers	03	02	03	40	60	100	4
4	PCC	20MBA14	Business Statistics	03	02	03	40	60	100	4
5	PCC	20MBA15	Marketing Management	03	02	03	40	60	100	4
6	PCC	20MBA16	Managerial Communication	03	02	03	40	60	100	4
TOTAL				18	12	18	240	360	600	24
Note: PCC: Professional Core Course Practical /Field Work / Assignment are part of contact hours for the faculty and must be considered in the workload. Four credit courses are designed for 50 hours Teaching – Learning process.										
Note: <ol style="list-style-type: none"> Each course has a theory component of 3hrs (3credits) and a practical component of 2hrs (1credit). The time-table allotment for each course should be 5hrs (3+2). For the practical component it is mandatory to maintain a record. 20% of marks should be allocated for application oriented questions in the Semester End Examination (SEE) question paper based on practical component. Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the SEE question paper. One industrial visit per semester is mandatory. The department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department. Students and course instructor/s to involve either individually or in groups to interact together to enhance the learning and application skills. Practical component: Students should interact with industry (small, medium and large) to understand their problems or foresee what can be undertaken for study in the form of research/ testing / projects and for creative and innovative methods for guidance and to solve the identified problem. The students shall <ol style="list-style-type: none"> Gain confidence in modeling of management systems. Work on different software/s (tools) to simulate, analyse and authenticate the output to interpret and conclude. Involve in case studies and field visits/ field work. Accustom with the use of standards to narrow the gap between academia and industry. <p>All activities should enhance student's abilities to employment and/or self-employment opportunity, management skills, statistical analysis, fiscal expertise etc.</p>										


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examinations – 2020 - 21 MASTER OF BUSINESS ADMINISTRATION Choice Based Credit System (CBCS) and Outcome Based Education(OBE)										
II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20MBA21	Human Resource Management	03	02	03	40	60	100	4
2	PCC	20MBA22	Financial Management	03	02	03	40	60	100	4
3	PCC	20MBA23	Research Methodology	03	02	03	40	60	100	4
4	PCC	20MBA24	Operations Research	03	02	03	40	60	100	4
5	PCC	20MBA25	Strategic Management	03	02	03	40	60	100	4
6	PCC	20MBA26	Entrepreneurship & Legal Aspects	03	02	03	40	60	100	4
TOTAL				18	12	18	240	360	600	24
Note: PCC: Professional Core Course Practical /Field Work / Assignment are part of contact hours for the faculty and must be considered in the workload. Four credit courses are designed for 50 hours Teaching – Learning process.										
Note: <ol style="list-style-type: none"> Each course has a theory component of 3hrs (3credits) and a practical component of 2hrs (1credit). The time-table allotment for each course should be 5hrs (3+2). For the practical component it is mandatory to maintain a practical record. 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component. Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the question paper. One industrial visit per semester is mandatory. The department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department. Internship (four weeks) to be carried out by students after second semester during vacation and the report submitted by the students be assessed internally during the third semester. 										

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examinations – 2020 - 21

MASTER OF BUSINESS ADMINISTRATION

Choice Based Credit System (CBCS) and Outcome Based Education(OBE)

III SEMESTER(Core Courses and Specialisation Courses)

III SEMESTER(Core Courses and Specialisation Courses)											
Sl. No	Course	Course Code			Teaching Hours /Week		Examination				Credits
		Marketing	Finance	Human Resource	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20MBA301*	20MBA301*	20MBA301*	03	02	03	40	60	100	4
2	PCC	20MBA302*	20MBA302*	20MBA302*	03	02	03	40	60	100	4
3	PEC	20MBAMM303	20MBAFM303	20MBAHR303	03	02	03	40	60	100	4
4	PEC	20MBAMM304	20MBAFM304	20MBAHR304	03	02	03	40	60	100	4
5	PEC	20MBAMM305	20MBAFM305	20MBAHR305	03	02	03	40	60	100	4
6	PEC	20MBAMM306	20MBAFM306	20MBAHR306	03	02	03	40	60	100	4
7	PCC	20MBA IN 307	20MBA IN 307	20MBA IN 307	-	08	-	40	60	100	4
TOTAL					18	20	18	280	420	700	28

Note:

PCC: Professional Core Course, PEC: Professional Elective Course.

Practical /Field Work / Assignment are part of contact hours for the faculty and must be considered in the workload.

Four credit courses are designed for 50 hours Teaching – Learning process.

* Interdisciplinary Core Courses may be taught by engineering faculty/subject expert.

Note:

- Each course has a theory component of 3hrs (3credits) and a Practical component of 2hrs (1credit). The time-table allotment for each course should be 5hrs (3+2). For the practical component it is mandatory to maintain a practical record.
- 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
- One industrial visit per Semester is mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the question paper.
- Project (six weeks) to be carried out by students after third semester and the report submitted by the students during the fourth semester.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examinations – 2020 - 21
MASTER OF BUSINESS ADMINISTRATION
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)

III SEMESTER (Core Courses and Dual Specialisation)

Sl. No	Course	Course Code			Teaching Hours /Week		Examination				Credits
		Marketing & Finance	Finance & Human Resource	Human Resource & Marketing	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20MBA301*	20MBA301*	20MBA301*	03	02	03	40	60	100	4
2	PCC	20MBA302*	20MBA302*	20MBA302*	03	02	03	40	60	100	4
3	PEC	20MBAMM303	20MBAFM303	20MBAHR303	03	02	03	40	60	100	4
4	PEC	20MBAMM304	20MBAFM304	20MBAHR304	03	02	03	40	60	100	4
5	PEC	20MBAFM303	20MBAHR303	20MBAMM303	03	02	03	40	60	100	4
6	PEC	20MBAFM304	20MBAHR304	20MBAMM304	03	02	03	40	60	100	4
7	PCC	20MBA IN 307	20MBA IN 307	20MBA IN 307	--	08	--	40	60	100	4
TOTAL					18	20	18	280	420	700	28

Note:

PCC: Professional Core Course, PEC: Professional Elective Course.

Practical /Field Work / Assignment are part of contact hours for the faculty and must be considered in the workload.

Four credit courses are designed for 50 hours Teaching – Learning process.

* Interdisciplinary Core Courses may be taught by engineering faculty/subject expert.

Note:

- Each course has a theory component of 3hrs (3credits) and a practical component of 2hrs (1credit). The time-table allotment for each course should be 5hrs (3+2). For the practical component it is mandatory to maintain a practical record.
- 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.
- One industrial visit per semester is mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
- Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases be part of the question paper.
- Project (six weeks) to be carried out by students after third semester and the report submitted by the students during the fourth semester.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI					
Scheme of Teaching and Examinations – 2020 - 21					
MASTER OF BUSINESS ADMINISTRATION					
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)					
III SEMESTER					
Core Courses					
Subject Code	Title of the Subject		Subject Code	Title of the Subject	
20MBA301	Emerging Exponential Technologies		20MBA301	Emerging Exponential Technologies	
20MBA302	Technology & Operational Strategy		20MBA302	Technology & Operational Strategy	
Specialisation Courses					
Marketing Professional Elective Courses		Finance Professional Elective Courses		Human Professional Elective Courses	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
20MBAMM303	Services Marketing	20MBAFM 303	Investment Management	20MBAHR303	Recruitment & Selection
20MBAMM304	Marketing Research & Analytics	20MBAFM304	Direct Taxation	20MBAHR304	Human Resource Analytics
20MBAMM305	Consumer Behaviour	20MBAFM305	Banking and Financial Services	20MBAHR305	Industrial Relations and Labour Laws
20MBAMM306	Retail Management	20MBAFM306	Advanced Financial Management	20MBAHR306	Compensation & Reward System
20MBAIN307	Internship	20MBAIN307	Internship	20MBAIN307	Internship


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examinations – 2020 - 21
MASTER OF BUSINESS ADMINISTRATION
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)

IV SEMESTER (Specialisation Courses)

Sl No	Course	Specialisation Courses			Teaching Hours /Week		Examination				Credits
		Marketing	Finance	Human Resource	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PEC	20MBAMM401	20MBAFM401	20MBAHR401	03	-	03	40	60	100	3
2	PEC	20MBAMM402	20MBAFM402	20MBAHR402	03	-	03	40	60	100	3
3	PEC	20MBAMM403	20MBAFM403	20MBAHR403	03	-	03	40	60	100	3
4	PEC	20MBAMM404	20MBAFM404	20MBAHR404	03	-	03	40	60	100	3
5	PEC	20MBAMM405	20MBAFM405	20MBAHR405	03	-	03	40	60	100	3
6	PEC	20MBAMM406	20MBAFM406	20MBAHR406	03	-	03	40	60	100	3
7	PCC	20MBAPR407	20MBAPR407	20MBAPR407	-	12	-	40	60	100	6
TOTAL					18	12	18	280	420	700	24

Note:

PEC: Professional Elective Course.

Practical /Field Work / Assignment are part of contact hours for the faculty and must be considered in the workload.

Three credit courses are designed for 40 hours Teaching – Learning process.

Note:

- Each Course has a theory component of 3hrs (3credits). The Time-Table allotment for each course should be 3hrs.
- 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examinations – 2020 - 21
MASTER OF BUSINESS ADMINISTRATION
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)
IV SEMESTER(Dual Specialisation)

Sl. No	Course	Subject Code			Teaching Hours /Week		Examination				Credits
		Marketing & Finance	Finance & Human Resource	Human Resource & Marketing	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PEC	20MBAMM401	20MBAFM401	20MBAHR401	03	-	03	40	60	100	3
2	PEC	20MBAMM402	20MBAFM402	20MBAHR402	03	-	03	40	60	100	3
3	PEC	20MBAMM403	20MBAFM403	20MBAHR403	03	-	03	40	60	100	3
4	PEC	20MBAFM401	20MBAHR401	20MBAMM401	03	-	03	40	60	100	3
5	PEC	20MBAFM402	20MBAHR402	20MBAMM402	03	-	03	40	60	100	3
6	PEC	20MBAFM403	20MBAHR403	20MBAMM403	03	-	03	40	60	100	3
7	PCC	20MBAPR407	20MBAPR407	20MBAPR407	-	12	-	40	60	100	6
TOTAL					18	12	18	280	420	700	24

Note:

PEC: Professional Elective Course.

Practical /Field Work / Assignment are part of contact hours for the faculty and must be considered in the workload.

Three credit courses are designed for 40 hours Teaching – Learning process.

Note:

- Each Course has a theory component of 3hrs (3credits). The Time-Table allotment for each course should be 3hrs.
- 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component.

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 576 102

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examinations – 2020 - 21 MASTER OF BUSINESS ADMINISTRATION Choice Based Credit System (CBCS) and Outcome Based Education(OBE)					
IV SEMESTER (Specialisation Courses)					
Marketing Specialization		Financial Specialization		Human Resource Specialization	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
20MBAMM401	B2B Marketing Management	20MBAFM401	Risk Management and Insurance	20MBAHR401	Organizational Leadership
20MBAMM402	Logistics and Supply Chain Management	20MBAFM402	Financial Derivatives	20MBAHR402	Personal Growth & Interpersonal Effectiveness
20MBAMM403	Digital Marketing Management	20MBAFM403	Indirect Taxation	20MBAHR403	International Human Resource Management
20MBAMM404	Strategic Brand Management	20MBAFM404	Mergers, Acquisitions & Corporate Restructuring	20MBAHR404	Organization Change and Development
20MBAMM405	Agri Business Marketing	20MBAFM405	Corporate Valuation	20MBAHR405	Human Recourse Audit
20MBAMM406	International Marketing Management	20MBAFM406	International Financial Management	20MBAHR406	Management Consulting for Business Excellence
20MBAPR407	Project Report	20MBAPR407	Project Report	20MBAPR407	Project Report

Programme Outcomes (POs)

1. Students are given sufficient theoretical knowledge and are enabled to apply them to solve practical problems in business and other organizations/institutions of importance
2. Students are provided effective communication skills with a high degree of lateral and critical thinking that enhances learn ability, developed for being continuously employable.
3. Students are instilled with leadership qualities, ethically sound, enabled with decision making skills that reflect a high degree of social consciousness
4. Students are trained for sustained research orientation to comprehend a growingly complex, economic, legal and ethical environment
5. Students are equipped with self sustaining entrepreneurship qualities that encourages calculated risk taking.




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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016 – 17 Onwards
 Master of Computer Applications (MCA)

I Semester					CREDIT BASED			
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA11	Data structures using C	4	--	3	20	80	100	4
16MCA12	Unix Programming	4	--	3	20	80	100	4
16MCA13	Web Technologies	4	--	3	20	80	100	4
16MCA14	Computer Organization	4	--	3	20	80	100	4
16MCA15	Discrete Mathematical Structures	4	--	3	20	80	100	4
16MCA16	Data structures using CLaboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA17	UnixProgramming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA18	Web ProgrammingLaboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
Total		20	09	24	160	640	800	26

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 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016 – 17 Onwards
Master of Computer Applications (MCA)

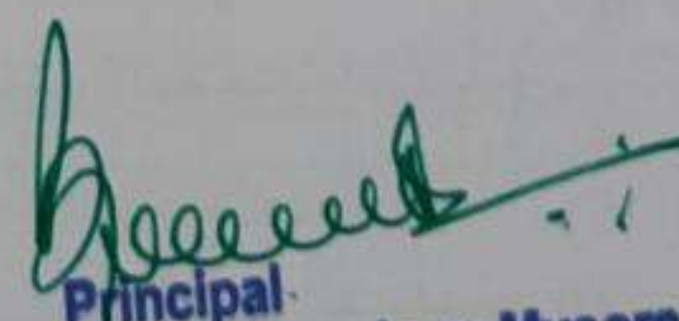
II Semester		CREDIT BASED						
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA21	Python Programming	4	--	3	20	80	100	4
16MCA22	Object oriented programming using C++	4	--	3	20	80	100	4
16MCA23	Database Management Systems	4	--	3	20	80	100	4
16MCA24	Operating Systems	4	--	3	20	80	100	4
16MCA25	System Software	4	--	3	20	80	100	4
16MCA26	Python Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA27	Object oriented programming using C++ laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA28	DBMS Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
Total		20	09	24	160	640	800	26


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016 – 17 Onwards
 Master of Computer Applications (MCA)

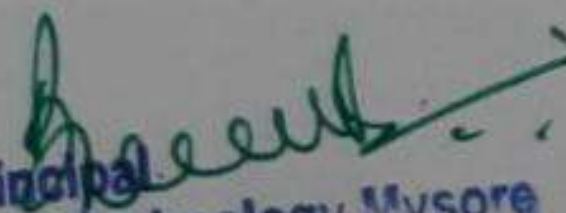
III Semester CREDIT BASED								
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA31	Computer Networks	4	--	3	20	80	100	4
16MCA32	Java Programming	4	--	3	20	80	100	4
16MCA33	Analysis and Design of Algorithms	4	--	3	20	80	100	4
16MCA34	Software Engineering	4	--	3	20	80	100	4
16MCA35	Elective 1	3	--	3	20	80	100	3
16MCA36	Computer Networks Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA37	Java Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA38	Analysis and Design of Algorithms Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
Total		19	09	24	160	640	800	25
Elective- 1								
16MCA351	Intellectual Property Rights							
16MCA352	Enterprise Resource Planning(ERP)							
16MCA353	MIS & E-Commerce							
16MCA354	Cyber Security							


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CHOICE BASED CREDIT SYSTEM (CBCS)
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 Master of Computer Applications (MCA)

IV Semester					CREDIT BASED			
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA41	Advanced Java Programming	4	--	3	20	80	100	4
16MCA42	Advanced Web Programming	4	--	3	20	80	100	4
16MCA43	Software Testing and Practices	4	--	3	20	80	100	4
16MCA44	Elective-2	3	--	3	20	80	100	3
16MCA45	Elective-3	3	--	3	20	80	100	3
16MCA46	Advanced Java Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA47	Advanced Web Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA48	Software Testing Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA49	Seminar	--	2	--	50	--	50	1
Total		18	11	24	210	640	850	25
Elective -2				Elective-3				
16MCA441	Advanced Computer Networks	16MCA451		Wireless Communication and Mobile Technologies				
16MCA442	Data Warehousing and Data Mining	16MCA452		Big Data Analytics				
16MCA443	Software Architecture	16MCA453		Software Quality				


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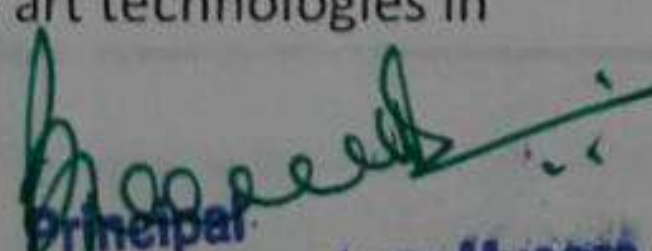
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16MCA444	Cryptography and Network security	16MCA454	Management Principles of User Interface Design
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V Semester		CREDIT BASED						
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA51	Object-Oriented Modeling and Design Patterns	4	--	3	20	80	100	4
16MCA52	Programming Using C# & .NET	4	--	3	20	80	100	4
16MCA53	Mobile Applications	4	--	3	20	80	100	4
16MCA54	Elective-4	3	--	3	20	80	100	3
16MCA55	Elective-5	3	--	3	20	80	100	3
16MCA56	Software Design Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA57	.Net Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA58	Mini Project : Mobile Applications Development using Android/iOS/Windows etc.	--	4(2 hrs lab+ 1 hr instruction+ 1 hr contact)	3	20	80	100	3
16MCA59	Seminar	--	2	--	50	--	50	1
Total		18	12	24	210	640	850	26
Elective-4			Elective-5					
16MCA541	Web2.0 and Rich Internet Applications	16MCA551		Software Defined Networks				
16MCA542	Cloud Computing	16MCA552		Internet of Things(IoT)				
16MCA543	Artificial Intelligence	16MCA553		Service Oriented Architecture				
16MCA544	Storage Area Networks	16MCA554		Software Project Management				

16MCA49 and 16MCA59: Seminar

- Students should present the seminar on cutting edge/emerging/state of the art technologies in the field of Computer Science and Applications.


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- Duration of the seminar should be approximately 45 minutes.
- Student should submit the write up on seminar topic containing at least 10 pages.

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CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016 – 17 Onwards
Master of Computer Applications (MCA)

VI Semester		CREDIT BASED					
Subject Code	Name of the Subject	Evaluation				Total	Credits
		Internal		External			
		Presentation	Report Evaluation	Dissertation Evaluation	Viva		
16MCA61	Internship	50	50	-	-	100	02
16MCA62	Project Work	75		125	100	300	20
Total		175		125	100	400	22
Grand Total (I to VI Semesters): 4500 Marks : 150 Credits							
Guidelines:							
16MCA61: Internship							
<ul style="list-style-type: none">• The students shall undergo internship for 6 weeks during the vacation immediately after the 5th semester examination.• The internship shall be carried out in industry/R&D labs or institutions.• Internship should be presented along with the report by the end of 6 weeks and shall be evaluated by the internal panel for 50 marks each.							
16MCA62: Project Work							
Synopsis							
<ul style="list-style-type: none">• Synopsis of the project must be submitted before the end of the first month of 6th semester• The synopsis of the project must include:<ul style="list-style-type: none">a) Problem formulation and literature survey.b) Details of the required tools and technologies for the development of project.c) Write up shall not exceed 15 pages.• Internal assessment for synopsis presentation and evaluation of the synopsis by the internal examiner/guide is for 20 marks.							
Dissertation							
<ul style="list-style-type: none">• The project shall be carried out in the same institution or in industry/R&D labs based on software tools and technologies learnt in MCA course/internship for minimum period of 16 weeks.• Internal assessment shall be evaluated by the internal panel/guide for 55 marks.<ul style="list-style-type: none">a) For continuous evaluation of project work by the internal examiner/guide with progress reports is for 10 marks each. (3 progress reports x 10 marks= 30)b) Final presentation for the entire project is evaluated for 25 marks.• The internal examiners (Project Guide with at least 2 years experience) and the external examiners shall be appointed by the University for the final evaluation of the project.• Internal and external examiners shall carry out the evaluation of Dissertation report for 125 marks individually. The average of the marks allotted by the internal and external examiners shall be the final marks for the project Dissertation report evaluation.• The project presentation and Viva-voce shall be evaluated jointly by both the internal and external examiners for 100 marks.• The student should be encouraged to present/publish the part/outcome of the project as an article in the conferences/journals.							

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Under Outcome Based Education (OBE) And Choice Based Credit System (CBCS) Scheme
Scheme of Teaching and Examination – 2018-19
Master of Computer Applications
I SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA11	Object Oriented Programming with C++	MCA	03	-	-	03	60	40	100	03
2	18MCA12	Unix and Shell Programming	MCA	03	-	-	03	60	40	100	03
3	18MCA13	Web Technologies	MCA	03	-	-	03	60	40	100	03
4	18MCA14	Software Engineering	MCA	03	-	-	03	60	40	100	03
5	18MCA15	Computer Organization	MCA	03	-	-	03	60	40	100	03
6	18MCA16	C++ Programming Lab	MCA	-	01	03	03	60	40	100	02
7	18MCA17	Unix and Shell Programming Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA18	Web Technologies Lab	MCA	-	01	03	03	60	40	100	02
TOTAL				Theory: 15hours Practical: 09 hours Tutorial/Instruction: 03hours				480	320	800	21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
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Master of Computer Applications
II SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
				Theory (L)	Tutorial (T)	Practical (P)					
1	18MCA21	Programming using Java	MCA	03	-	-	03	60	40	100	03
2	18MCA22	Data Structures using C++	MCA	03	-	-	03	60	40	100	03
3	18MCA23	Discrete Mathematical Structures and Statistics	MCA/ Mathematics	03	-	-	03	60	40	100	03
4	18MCA24	Computer Networks	MCA	03	-	-	03	60	40	100	03
5	18MCA25	Operating Systems	MCA	03	-	-	03	60	40	100	03
6	18MCA26	Java Programming Lab	MCA	-	01	03	03	60	40	100	02
7	18MCA27	Data Structures Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA28	Computer Networks Lab	MCA	-	01	03	03	60	40	100	02
9	18MCA29	Mini Project	MCA	-	02	02	03	60	40	100	02
TOTAL				Theory: 15hours Practical: 11 hours Tutorial/Instruction: 05 hours				540	360	900	23

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III SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA31	Database Management System	MCA	03	-	-	03	60	40	100	03
2	18MCA32	Programming using Python	MCA	03	-	-	03	60	40	100	03
3	18MCA33	Design and Analysis of Algorithms	MCA	03	-	-	03	60	40	100	03
4	18MCA34	System Software	MCA	03	-	-	03	60	40	100	03
5	18MCA35X	Elective I	MCA	03	-	-	03	60	40	100	03
6	18MCA36	DBMS Lab	MCA	-	01	03	03	60	40	100	02
7	18MCA37	Python Programming Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA38	Algorithms Lab	MCA	-	01	03	03	60	40	100	02
TOTAL				Theory: 15hours Practical: 09 hours Tutorial/Instruction: 03hours				480	320	800	21

Elective I	
18MCA351	Software Testing
18MCA352	Optimization Techniques
18MCA353	Advance Computer Networks
18MCA354	Management Information Systems

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IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA41	Advanced Java Programming	MCA	03	-	-	03	60	40	100	03
2	18MCA42	Advanced Web Programming	MCA	03	-	-	03	60	40	100	03
3	18MCA43	Object Oriented Modeling and Design	MCA	03	-	-	03	60	40	100	03
4	18MCA44X	Elective II	MCA	03	-	-	03	60	40	100	03
5	18MCA45X	Elective III	MCA	03	-	-	03	60	40	100	03
6	18MCA46	Professional Communication & Report Writing	MCA	02	-	-	03	60	40	100	02
7	18MCA47	Advanced Java Programming Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA48	Advanced Web Programming Lab	MCA	-	01	03	03	60	40	100	02
9	18MCA49	Object Oriented Modeling and Design Lab	MCA	-	01	03	03	60	40	100	02
TOTAL				Theory: 17hours Practical: 09 hours Tutorial/Instruction: 03hours				540	360	900	23

Elective II		Elective III	
18MCA441	Wireless Communication and Mobile Technologies	18MCA451	Enterprise Resource Planning (ERP)
18MCA442	Cyber Security	18MCA452	Data Warehousing and Data Mining
18MCA443	Computer Graphics	18MCA453	Advanced Database Management Systems
18MCA444	Cloud Computing	18MCA454	Big Data Analytics

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Master of Computer Applications

V SEMESTER

SL No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA51	Programming using C#.net	MCA	03		-	03	60	40	100	03
2	18MCA52	Mobile Applications	MCA	03		-	03	60	40	100	03
3	18MCA53	Machine Learning	MCA	03	-	-	03	60	40	100	03
4	18MCA54X	Elective IV	MCA	03	-	-	03	60	40	100	03
5	18MCA55X	Elective V	MCA	03	-	-	03	60	40	100	03
6	18MCA56	C#.net Lab	MCA	-	01	03	03	60	40	100	02
7	18MCA57	Mobile Applications Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA58	Mini Project	MCA	-	02	04	03	60	40	100	03
TOTAL				Theory: 15hours Practical: 10 hours Tutorial/Instruction: 04 hours				480	320	800	22

Elective IV		Elective V	
18MCA541	Multimedia Systems	18MCA551	System Simulation and Modeling
18MCA542	Internet of Things (IoT)	18MCA552	Principles of User Interface Design
18MCA543	Image Processing	18MCA553	Software Architecture
18MCA544	Parallel Computing	18MCA554	Storage Area Networks

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
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VI SEMESTER

SL No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory	Practical	Tutorial	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA61	Internship	MCA	-	-	-	-	-	100	100	4
2	18MCA62	Seminar	MCA	-	-	-	-	-	100	100	2
3	18MCA63	Major Project	MCA	-	-	-	03	60	40	100	16
TOTAL								60	240	300	22


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Scheme of Teaching and Examination
Master of Computer Applications
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme

SEMESTER-I											
S.No	Course Type	Course Code	Title	Teaching Hours/ Week			Examination				Credits
				L	P	T/S DA	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	PCC	20MCA11	Data Structures with Algorithms	04	-	-	03	60	40	100	04
2	PCC	20MCA12	Operating System with Unix	04	-	-	03	60	40	100	04
3	PCC	20MCA13	Computer Networks	04	-	-	03	60	40	100	04
4	PCC	20MCA14	Mathematical Foundation for Computer Applications	03	-	02	03	60	40	100	04
5	PCC	20MCA15	Research Methodology & IPR	02	-	02	03	60	40	100	02
6	PCC	20MCA16	Data Structures with Algorithms Lab	-	04		03	60	40	100	02
7	PCC	20MCA17	Unix Programming Lab	-	04		03	60	40	100	02
8	PCC	20MCA18	Computer Networks Lab	-	04		03	60	40	100	02
9	BC	20MCA19-BC*	Basics of Programming & CO	02	-	02	03	60	40	100	-
Total				17	12	06	27	540	360	900	24

***Only for non-computer science students**

Note: PCC- Professional Core Course; PCE- Professional Elective Course

Each Course (PCC/PCE) shall have case study discussion and may be considered as a part of assignment.

Theory courses internal assessment (CIE) shall be based on internal test (50% weightage), 50% weightage may be given to other continues assessment carried out during the teaching learning processes. Course coordinator may select suitable assessment techniques/tools for continues evaluation such as weekly Multiple Choice Questions (MCQ) quiz, higher order cognitive level questions as assignment, and case study questions/

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any other assignment useful for learning with a minimum cognitive level at the application level. Average marks of three internal tests have to be considered for CIE along with other continues evaluations.

Laboratory courses internal assessment shall be based on internal test (50% weightage), remaining 50% weightage shall be given to continues evaluation of practical execution during regular laboratory hours. During regular laboratory hours students may be asked to solve the extended versions of the laboratory program/problem, and demonstrate higher order cognitive level such as analysis and design programming assignment. During the laboratory hours after the program execution, technical quiz may be conducted. Wherever laboratory is also having project work students may be asked to solve novel problems in their projects work.

Skill development activities (SDA):

Students and course instructor/s to involve either individually or in groups to interact together to enhance the learning and application skills.

The students should interact with industry (small, medium and large), understand their problems or foresee what can be undertaken for study in the form of research/ testing / projects, and for creative and innovative methods to solve the identified problem.

The students shall

- 1) Gain confidence in modelling of systems and algorithms.
- 2) Work on different software/s (tools) to Simulate, analyse and authenticate the output to interpret and conclude. Operate the simulated system under changed parameter conditions to study the system with respect to thermal study, transient and steady state operations, etc,
- 3) Handle advanced instruments to enhance technical talent.
- 4) Involve in case studies and field visits/ field work.
- 5) Accustom with the use of standards/codes etc., to narrow the gap between academia and industry.

All activities should enhance student's abilities to employment and/or self-employment opportunities, management skills, Statistical analysis, fiscal expertise, etc.

Tutorial:

Tutorial sessions may be conducted using cooperative Learning techniques. Tutorial sheets maintained should indicate date, problem (statement) addressed, and cooperative learning technique employed, solution to the problem. Course coordinator shall maintain document in specific format for tutorial / SDA.

In order to promote reinforcement of TLP, course coordinator to analyze the performance of the student after the execution of particular test and conduct remedial/ tutorial classes. It is recommended to make changes in delivery methods wherever required and give appropriate assignments/ study materials to fast/slow learners.

Note:

- 1) Four credit courses are designed for 50 hours of teaching and learning process

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- 2) Three credit courses are designed for 40hours Teaching – Learning process.
- 3) Two credit courses are designed for 30hours Teaching – Learning process.

Research/Technical Seminar:

As a part of the course Research Methodology & IPR, presenting the seminar is mandatory. The CIE marks awarded for Research/Technical Seminar shall be based on the evaluation of Seminar Report, Presentation skills and performance in Question and Answer session in the ratio 50:25:25. Seminar is to be considered for **20 marks. Remaining 20 marks is for internal tests.**

Students shall do the literature survey of existing work on contemporary topics and present. Student shall highlight on the research gap and propose solution. Seminar presentation and report have to be evaluated using rubrics.

Bridge course: 20MCA19-BC

20MCA19-BC: Bridge course is a non-credit course introduced to the students who admits into MCA program from non-computer science background. Students have to secure eligibility by scoring 50% marks in aggregate (CIE and SEE).

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ಇಂಜಿನಿಯರಿಂಗ್

ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಸಂಪನ್ಮೂಲ ಇಂಜಿನಿಯರಿಂಗ್

ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಸಂಪನ್ಮೂಲ ಇಂಜಿನಿಯರಿಂಗ್

ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಸಂಪನ್ಮೂಲ ಇಂಜಿನಿಯರಿಂಗ್

ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಸಂಪನ್ಮೂಲ ಇಂಜಿನಿಯರಿಂಗ್

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Scheme of Teaching and Examination

Master of Computer Applications

Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme

SEMESTER-II

S.No.	Course Type	Course Code	Title	Teaching Hours/Week			Examination				Credits
				L	P	T/SDA	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	PCC	20MCA21	Database Management System	03	-	-	03	60	40	100	03
2	PCC	20MCA22	Object Oriented Programming with Java	03	-	-	03	60	40	100	03
3	PCC	20MCA23	Web Technologies	04	-	-	03	60	40	100	04
4	PCC	20MCA24	Software Engineering	03	-	02	03	60	40	100	04
5	PEC	20MCA25X	Elective-1	03	-	-	03	60	40	100	03
6	PEC	20MCA26X	Elective-2	03	-	-	03	60	40	100	03
7	PCC	20MCA27	DBMS Lab	-	04	-	03	60	40	100	02
8	PCC	20MCA28	Java Programming Lab.	-	04	-	03	60	40	100	02
9	PCC	20MCA29	Web Technologies Lab with Mini-project	-	04	-	03	60	40	100	02
Total				19	12	02	27	540	360	900	26

Elective-I		Elective-II	
20MCA251	Cybersecurity	20MCA261	Cryptography and Network Security
20MCA252	Data Mining and Business Intelligence	20MCA262	Artificial Intelligence
20MCA253	Enterprise Resource Planning	20MCA263	Mobile Application Development
20MCA254	User Interface Design	20MCA264	Distributed operating System
20MCA255	Optimization Techniques	20MCA265	Natural Language Processing

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Scheme of Teaching and Examination
Master of Computer Applications
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme

SEMESTER-III											
S.No	Course Type	Course Code	Title	Teaching Hours/Week			Examination				Credits
				L	P	T/SDA	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	PCC	20MCA31	Data Analytics using Python	04	-	-	03	60	40	100	04
2	PCC	20MCA32	IoT	04	-	-	03	60	40	100	04
3	PCC	20MCA33	Advances in Java	04	-	-	03	60	40	100	04
4	PEC	20MCA34X	Elective-II	03	-	-	03	60	40	100	03
5	PEC	20MCA35X	Elective-III	03	-	-	03	60	40	100	03
6	PCC	20MCA36	Data Analytics Lab with Mini-project	-	04		03	60	40	100	02
7	PCC	20MCA37	IoT Lab with Mini Project	-	04		03	60	40	100	02
8	PCC	20MCA38	Advances in Java Lab	-	04		03	60	40	100	02
Total				18	12	-	24	480	320	800	24
Elective-III				Elective-IV							
20MCA341		Block chain Technology		20MCA351	Deep Learning						
20MCA342		Cloud Computing		20MCA352	Big data Analytics						
20MCA343		Digital Marketing		20MCA353	Wireless Ad Hoc Networks						
20MCA344		Software Testing		20MCA354	Software Project Management						
20MCA345		NOSQL		20MCA355	Software Defined Networks						

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Scheme of Teaching and Examination
Master of Computer Applications
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme

SEMESTER-IV											
S.No	Course Type	Course Code	Title	Teaching Hours/Week			Examination				Credits
				Lecture(L)	Tutorial(T)	Practical(P)\Seminar	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	PCC	20MCA41	Advances in Web Technologies	02	02		3	60	40	100	02
2	PCC	20MCA42	Programming using C#	02	02	-	03	60	40	100	02
3	PCC	20MCA43	Industry Internship (4 weeks in vacation of 3 rd sem.)	-	-	-	-	-	100	100	02
4	PCC	20MCA44	Project work Phase 2 (During 4 th Semester- min. of 4 Months)			02	03	60	40	100	20
Total				4	4	02	09	180	220	400	26

Internship:

All the students have to undergo mandatory internship of 4 weeks during the vacation of III semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as fail in internship course and have to complete the same during the subsequent semester. After satisfying the internship requirements the degree will be awarded. However, student can carry out 4th semester project without completing the internship.

Project:

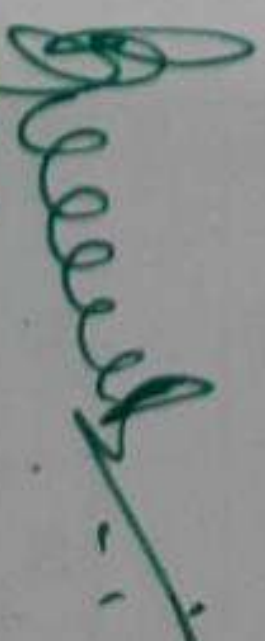
The candidate should carry out the project in any industry or R&D institution or educational institution under a guide/co-guide. The candidate has to present the work carried out before the examiners during the University examination. The work out carried out should be free from plagiarism. The

literature study may be clearly written which may be summary of existing project and highlight of what are the functionalities that are proposed to this project. Student shall indicate the different research papers, documents refereed as a part of the literature study. It is recommended to do prior art search as part of literature survey before submitting the synopsis for the projects.

This is an individual project for a duration of minimum of 4 months or duration of the semester. Rubrics have to be used for evaluation of projects which makes the evaluation transparent and valid. Paper publication in an indexed journal/conference is compulsory as part of the project work.

Project work evaluation

There shall be three project presentations each to be considered for 5 marks (5X3= 15 marks) and a final presentation for 15 marks. Presentation may be given using Power point presentation/demonstrations of the work. Synopsis submitted in a proper format is to be evaluated for 10 marks. Student has to publish a research paper in indexed journal / conference. Publications follow the Thesis. 10% weightage is given in SEE. Project report organization/contents can be similar to project report contents of 2018 scheme/syllabus.


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M.TECH-SP-2016-17 SCHEME OF TEACHING AND EXAMINATION

M.Tech in Signal Processing

I SEMESTER

Subject Code	Title	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work / Assignment/ Tutorials		I.A.	Exam		
16ELD11	Advanced Engineering Mathematics	4	--	3	20	80	100	4
16ESP12	Statistical Signal Processing	4	--	3	20	80	100	4
16EVE13	Advanced Embedded Systems	4	--	3	20	80	100	4
16ESP14	Modern DSP	4	--	3	20	80	100	4
16EXX15X	Elective – 1	3	--	3	20	80	100	3
16ESPL16	Signal Processing lab	--	3	3	20	80	100	2
16ESPL17	Seminar on advanced topics from refereed journals	--	3	--	100	--	100	1
Total		19	6	18	220	480	700	22

Elective-1:

16ECS151	Advanced Computers Networks	16ESP153	Modern Spectral Analysis & Estimation
16ESP152	Multirate Systems and Filter Banks	16ECS154	Simulation, Modeling and Analysis


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M.Tech in Signal Processing

II SEMESTER

Subject Code	Title	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work / Assignment/ Tutorials		I.A.	Exam		
16ESP21	Image Processing and Machine Vision	4	--	3	20	80	100	4
16ESP22	DSP System Design	4	--	3	20	80	100	4
16ESP23	Digital Signal Compression	4	--	3	20	80	100	4
16ESP24	Biomedical Signal Processing	4	--	3	20	80	100	4
16EXX25X	Elective-2	3	--	3	20	80	100	3
16ESPL26	Image Processing Lab	--	3	3	20	80	100	2
16ESP27	Seminar on Advanced topics from refereed Journals	--	3	--	100	--	100	1
Total		19	6	18	220	480	700	22

Elective - 2:

16ESP251	Detection & Estimation	16ESP253	Pattern Recognition
16EVE252	VLSI Design for Signal Processing	16ESP254	Channel Coding

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M.Tech in Signal Processing

III SEMESTER: Internship

Subject Code	Title	Teaching hours/week		Duration of the Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work		I.A.	Exam		
16ESP31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	--	--	--	25	--	25	20
16ESP32	Report on Internship	--	--	--	25	--	25	
16ESP33	Evaluation and Viva-voce on Internship	--	--	--	--	50	50	
16ESP34	Evaluation of Project Phase-I	--	--	--	50	--	50	1
	Total	--	--	--	100	50	150	21


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M.Tech in Signal Processing

IV SEMESTER

Subject Code	Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work / Assignment/ Tutorials		I.A.	Exam		
16ESP41	Adaptive Signal processing	4	--	3	20	80	100	4
16EXX42X	Elective-3	3	--	3	20	80	100	3
16ESP43	Evaluation of Project Phase-II	--	--	--	50	-	50	3
16ESP44	Evaluation of Project Work and Viva-Voce	--	--	--	--	100+100	200	10
Total		7	--	06	90	360	450	20

Elective-3:

16ESP421	Array Signal Processing	16ECS423	Communication System Design using DSP Algorithms
16ESP422	Speech and Audio processing	16ELD424	Reconfigurable Computing

Note:

- Project Phase-1:** 6-week duration shall be carried out between 2nd and 3rd Semester vacation. Candidates in consultation with the guide shall carry out literature survey/ visit industries to finalize the topic of Project.
- Project Phase-2:** 16-week duration during 4th semester. Evaluation shall be done by the committee constituted comprising of HoD as Chairman, Guide and Senior faculty of the department.
- Project Evaluation:** Evaluation shall be taken up at the end of 4th semester. Project work evaluation and Viva-Voce examination shall be conducted
 - Internal Examiner shall carry out the evaluation for 100 marks.
 - External Examiner shall carry out the evaluation for 100 marks.
 - The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.
 - Viva-Voce examination of Project work shall be conducted jointly by Internal and External examiner for 100 marks.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination – 2018-19

M.Tech in Signal Processing (ESP)

Choice Based Credit System (CBCS)

I SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ELD11	Advanced Engineering Mathematics	04	--	03	40	60	100	4
2	PCC	18ECS12	Advanced Digital Signal Processing	04	--	03	40	60	100	4
3	PCC	18EVE13	Advanced Embedded Systems	04	--	03	40	60	100	4
4	PCC	18ESP14	Multirate Systems and Filter Banks	04	--	03	40	60	100	4
5	PEC	18ESP15	Digital Compression	04	--	03	40	60	100	4
6	PCC	18ESPL16	Advanced Digital Signal Processing Lab	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
TOTAL				22	04	21	280	420	700	24

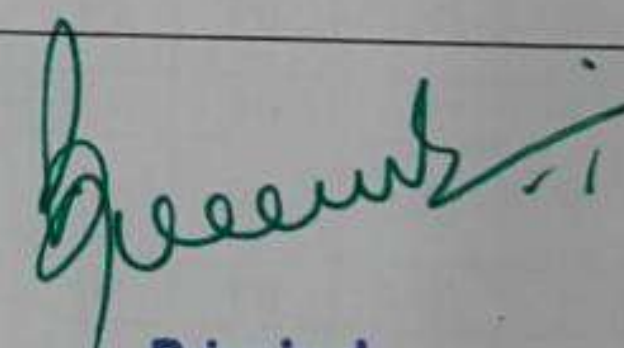
Note: PCC: Professional core, PEC: Professional Elective.

Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination will be conducted during III semester and prescribed credit shall be included in the III semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during subsequent University examination after satisfying the internship requirements.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech in Signal Processing (ESP)										
Choice Based Credit System (CBCS)										
II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ESP21	Image Processing and Machine Vision	04	--	03	40	60	100	4
2	PCC	18ESP22	DSP System Design	04	--	03	40	60	100	4
3	PCC	18ESP23	Biomedical Signal Processing	04	--	03	40	60	100	4
4	PEC	18XXX24X	Professional elective 1	04	--	03	40	60	100	4
5	PEC	18XXX25X	Professional elective 2	04	--	03	40	60	100	4
6	PCC	18ESPL26	Image Processing Lab	--	04	03	40	60	100	2
7	PCC	18ESP27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				20	06	18	340	360	700	24
Note: PCC: Professional core, PEC: Professional Elective										
Professional Elective 1				Professional Elective 2						
Course Code Under : 18xxx24x		Course Title		Course Code Under : 18xxx25x		Course Title				
18ECS241		Wireless Sensor Networks		18ESP251		Channel Coding				
18ELD242		Reconfigurable Computing		18ESP252		Statistical Signal Processing				
18ESP243		Detection and Estimation		18ELD253		Micro Electro Mechanical Systems				
Note:										
1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide in any and a senior faculty of the department. Participation in seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.										
The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.										
2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination will be conducted during III semester and prescribed credit shall be included in the III semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during subsequent University examination after satisfying the internship requirements.										



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech in Signal Processing (ESP)										
Choice Based Credit System (CBCS)										
III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ESP31	Adaptive Signal Processing	04	--	03	40	60	100	4
2	PEC	18XXX32X	Professional elective -3	04	--	03	40	60	100	4
3	PEC	18XXX33X	Professional elective -4	04	--	03	40	60	100	4
4	Proj	18ESP34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	INT	18ESP35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				12	02	12	260	240	500	20
Note: PCC: Professional core, PEC: Professional Elective, Proj: Project, INT: Internship,										
Professional Elective 3				Professional Elective 4						
Course Code Under : 18xxx32x		Course Title		Course Code Under : 18xxx33x		Course Title				
18ESP321		Speech and Audio Processing		18ESP331		VLSI Design for Signal Processing				
18ESP322		Array Signal Processing		18ESP332		Pattern Recognition & Machine Learning				
18ESP323		Communication System Design using DSP Algorithm		18ECS333		IoT				
Note:										
1. Project Phase-1: Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.										
SEE (University examination) shall be as per the University norms.										
2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.										
Internship SEE (University examination) shall be as per the University norms.										


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination – 2018-19 M.Tech in Signal Processing (ESP) Choice Based Credit System (CBCS)										
IV SEMESTER										
SL No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Proj	18ESP41	Project work phase -2	--	04	03	40	60	100	18
TOTAL				--	04	03	40	60	100	18
Note: Proj: Project.										
Note: 1. Project Phase-2: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25. SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										

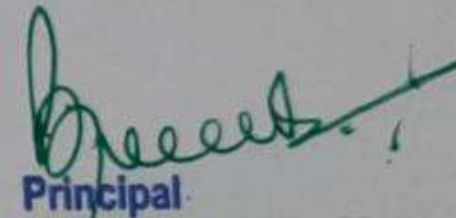

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examinations – 2020 - 21										
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)										
Programme: M.TECH IN SIGNAL PROCESSING (ESP)										
I SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20ELD11	Advanced Engineering Mathematics	04	--	03	40	60	100	4
2	PCC	20ECS12	Advanced Digital Signal Processing	04	--	03	40	60	100	4
3	PCC	20EVE13	Advanced Embedded System	04	--	03	40	60	100	4
4	PCC	20ESP14	Multirate Systems and Filter Banks	04	--	03	40	60	100	4
5	PCC	20ESP15	Digital Compression	04	--	03	40	60	100	4
6	PCC	20ESPL16	Advanced Digital Signal Processing Lab	-	04	03	40	60	100	2
7	PCC	20RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
TOTAL				22	04	21	280	420	700	24
Note: PCC: Professional core.										
Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II										


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semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as fail in internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.

Note: (i) Four credit courses are designed for 50 hours Teaching – Learning process.
(ii) Three credit courses are designed for 40 hours Teaching – Learning process.



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examinations – 2020 - 21										
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)										
Programme: M.TECH IN SIGNAL PROCESSING (ESP)										
II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment/ Project	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20ESP21	Image Processing and Machine Vision	04	--	03	40	60	100	4
2	PCC	20ESP22	DSP System Design	04	--	03	40	60	100	4
3	PCC	20ECS23	Error Control Coding	04	--	03	40	60	100	4
4	PEC	20XXX24X	Professional elective 1	04	--	03	40	60	100	4
5	PEC	20XXX25X	Professional elective 2	04	--	03	40	60	100	4
6	PCC	20ESPL26	Image Processing Lab	--	04	03	40	60	100	2
7	PCC	20ESP27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				20	06	20	340	360	700	24
Note: PCC: Professional core, PEC: Professional Elective.										


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Professional Elective 1		Professional Elective 2	
Course Code under 20XXX24X	Course title	Course Code under 20XXX25X	Course title
20ECS241	Wireless Sensor Networks	20ESP251	Biomedical Signal Processing
20EVE242	Nanoelectronics	20ECS252	Statistical Signal Processing
20ECS243	Cryptography and Network Security (20EVE334)	20ELD253	Micro Electro Mechanical Systems
20ELD244	Reconfigurable Computing	20ESP254	Detection and Estimation
<p>Note:</p> <p>1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory. The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as fail in internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.</p>			


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examinations – 2020 - 21										
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)										
Programme: M.TECH IN SIGNAL PROCESSING (ESP)										
III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20ESP31	Adaptive Signal Processing	04	--	03	40	60	100	4
2	PEC	20XXX32X	Professional elective 3	03	--	03	40	60	100	3
3	PEC	20XXX33X	Professional elective 4	03	--	03	40	60	100	3
4	PROJ	20ESP34	Project Work phase -I	--	02	--	100	--	100	2
5	PROJ	20ESP35	Mini-Project	--	02	--	100	--	100	2
6	INT	20ESPI36	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				10	04	12	360	240	600	20
Note: PCC: Professional core, PEC: Professional Elective. PROJ-Project, INT-Internship										


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Professional elective 3		Professional elective 4	
Course Code under 20XXX32X	Course title	Course Code under 20XXX33X	Course title
20ESP321	Array Signal Processing	20EVE331	VLSI Design for Signal Processing
20EIE322	Medical Imaging	20ESP332	Pattern Recognition & Machine Learning
20ELD323	Business Intelligence and its Applications	20ECS333	Internet of Things
20ESP324	Speech and Audio Processing	20ESP334	Communication System Design using DSP Algorithms

Note:

- 1. Project Work Phase-1:** Students in consultation with the guide & co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project phase-I report, and make a project presentation.
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.
SEE (University examination) shall be as per the University norms.
- 2. Mini-Project:** Each student shall involve in carrying out the Mini-project work in constant consultation with internal guide, prepare the project report as per the norms avoiding plagiarism. A mini project is an assignment that you try to complete at the end of semester to strengthen the understanding of his/her fundamentals through effective application of theoretical concepts.
- 3. Internship:** Those, who have not pursued /completed the internship shall be declared as fail in internship

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course and have to complete the same during subsequent University examinations after satisfying the internship requirements. Internship SEE (University examination) shall be as per the University norms.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering
CHOICE BASED CREDIT SYSTEM (CBSC)

I SEMESTER

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work / Assignmen		I.A.	Exam		
16MTP11	Applied Mathematics	4	-	3	20	80	100	4
16MTP12	Finite Element Method	4	-	3	20	80	100	4
16MTP13	Advanced Fluid Mechanics	4	-	3	20	80	100	4
16MTP14	Thermodynamics & Combustion Engineering	4	-	3	20	80	100	4
16MTP15X	Elective – I	4	-	3	20	80	100	4
16MTP16	Thermal Engineering measurement - Lab 1	--	3	3	20	80	100	2
16MTP/MTH 17	SEMINAR	--	-	--	100	--	100	1
Total		20	3	18	220	480	700	23

Elective – I

16MTP 151	Non Conventional Energy System	14 MTP 153	Energy Conservation and Management
16MTP 152	Nuclear Energy Conversion	14MTP 154	Refrigeration and Air Conditioning

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering
CHOICE BASED CREDIT SYSTEM (CBSC)

II SEMESTER

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Mar	CREDITS
		Lecture	Practical / Field Work /		I.A.	Exam		
16MTP21	Advanced Heat Transfer	4	-	3	20	80	100	4
16MTP22	Steam & Gas Turbines	4	-	3	20	80	100	4
16MTP23	Advanced Power Plant Cycles	4	-	3	20	80	100	4
16MTP24	Theory of IC Engines	4	-	3	20	80	100	4
16MTP25X	Elective – II	4	-	3	20	80	100	4
16MTP26	Simulation Laboratory Projects on Thermal Engineering - Lab 2	--	3	3	20	80	100	2
16MTP/MT27	SEMINAR	--	-	--	100	--	100	1
	**PROJECT WORK PHASE-I COMMENCEMENT(6 WEEKS DURATION)	--	--	--	--	--	--	--
Total		20	3	18	220	480	700	23

Elective – II

16MTP251	Thermal Power Station – 1	16MTP253	Modeling and Simulation of Thermal Systems
16MTP252	Alternate Fuels for IC Engines	16MTP254	Computational Methods in Heat Transfer & Fluid Flow

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering

CHOICE BASED CREDIT SYSYTEM (CBSC)

III SEMESTER

Subject Code	Title	Teaching hours/week		Examination			Total Marks	CREDITS
		Theory	Practical / Field Work / Assignment	Duration	I.A. Marks	Theory / Practical Marks		
16MTP31	Seminar/ Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
16 MTP32	Report on Internship	-	-	-	25	-	25	
16 MTP 33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
16 MTP34	Project Work Phase-1	-	-	-	50	-	50	1
Total		-	-	-	100	50	150	21


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SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering
CHOICE BASED CREDIT SYSTEM (CBSC)

VI SEMESTER

Subject Code	Title	Teaching hours/week		Examination Duration			Total Marks	CREDITS
		Theory	Practical / Field Work /	Duration in Hrs	I.A. Marks	Theory / Practical Marks		
16MTP41	Design of heat Transfer Equipments for thermal power plant	4	2	3	20	80	100	4
	ELECTIVE-III	4	2	3	20	80	100	3
16 MTP 43	Evaluation of Project Work Phase-II	-	-	-	50	-	50	3
16 MTP 44	Evaluation of Project Work and Viva-Voce	-	-	3	-	100+100	200	10
Total		-	4	9	90	360	450	20

ELECTIVE-III

16MTP421	Convective Heat and Mass Transfer	16MTP423	Design & Analysis of Thermal Systems
16MTP422	Engine Flow & Combustion	16MTP424	Experimental Methods in Thermal Power Engineering

Note:

1. Project Phase-2: 16-week duration during 4th semester. Evaluation shall be done by the committee constituted comprising of HoD as Chairman, Guide and Senior faculty of the department.

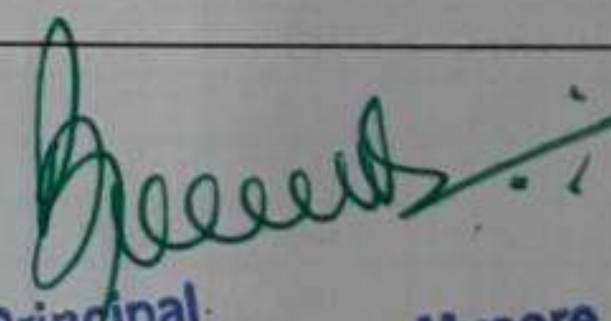
2. Project Evaluation: Evaluation shall be taken up at the end of 4th semester. Project work evaluation and Viva-Voce examination shall be conducted

3. Project evaluation:

- Internal Examiner shall carry out the evaluation for 100 marks.
- External Examiner shall carry out the evaluation for 100 marks.
- The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.
- Viva-Voce examination of Project work shall be conducted jointly by Internal and External examiner for 100 marks.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination – 2018-19 M.Tech in Thermal Engineering/Thermal Power Engineering (MTP) Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
I SEMESTER										
Sl. No	Course	Course Code	Title	Teaching Hours /Week		Examination				Credits
				Theory	Field work/ Assignment	Duration in hours	CIE Marks	Marks	Total Marks	
1	PCC	18MTP11	Mathematics	04	--	03	40	60	100	4
2	PCC	18MTP12	Finite Element Method	04	--	03	40	60	100	4
3	PCC	18MTP13	Advanced Fluid Mechanics	04	--	03	40	60	100	4
4	PCC	18MTP14	Thermodynamics & Combustion Engineering	04	--	03	40	60	100	4
5	PEC	18MTP15	Energy Conservation and Management	04	--	03	40	60	100	4
6	PCC	18MTPL16	Thermal Engineering measurement - Lab 1	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
TOTAL				22	04	21	280	420	700	24
Note: PCC: Professional core, PEC: Professional Elective. Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.										


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018-19
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

II SEMESTER

Sl. No	Course	Course Code	Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18MTP21	Advanced Heat Transfer	04	--	03	40	60	100	4
2	PCC	18MTP22	Steam & Gas Turbines	04	--	03	40	60	100	4
3	PCC	18MTP23	Refrigeration and Air Conditioning	04	--	03	40	60	100	4
4	PEC	18MTP24X	Professional elective 1	04	--	03	40	60	100	4
5	PEC	18MTP25X	Professional elective 2	04	--	03	40	60	100	4
6	PCC	18MTPL26	Simulation Laboratory Projects on Thermal Engineering - Lab 2	--	04	03	40	60	100	2
7	PCC	18MTP27	Technical Seminar	--	02	-	100	-	100	2
TOTAL				20	06	18	340	360	700	24

Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, Aud: Audit Course

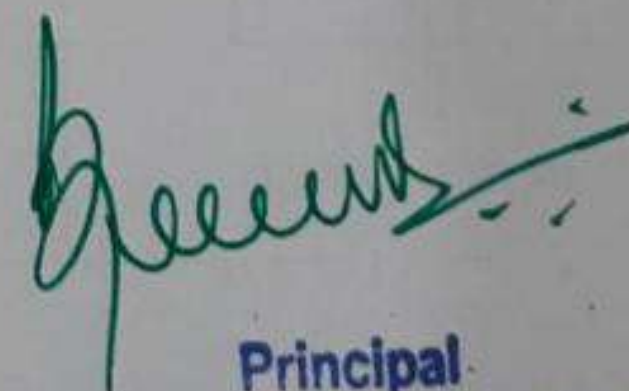
Professional Elective 1		Professional Elective 2	
Course Code under 18MTP24X	Course title	Course Code under 18MTP25X	Course title
18MTP241	Advanced Power Plant Cycles	18MTP251	Theory of IC Engines
18MTP242	Thermal Power Station – 1	18MTP252	Modeling and Simulation of Thermal Systems
18MTP243	Alternate Fuels for IC Engines	18MTP253	Computational Methods in Heat Transfer & Fluid Flow

Note:

1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.

The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018-19
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theor y	work / Assig nmen	ion in hours	Mark s	s	Total Mark s	
1	PCC	18MTP31	Design of heat Transfer Equipments for thermal power plant	04	--	03	40	60	100	4
2	PEC	18MTP32X	Professional elective-3	04	--	03	40	60	100	4
3	PEC	18MTP33X	Professional elective- 4	04	--	03	40	60	100	4
4	Proj	18MTP34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	INT	18MTPI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				12	02	12	260	240	500	20

Note: PCC: Professional core, PEC: Professional Elective.

Professional elective 3		Professional elective 4	
Course Code under 18XXX32X	Course title	Course Code under 18XXX33X	Course title
18MTP321	Convective Heat and Mass Transfer	18MTP331	Experimental Methods in Thermal Power Engineering
18MTP322	Engine Flow & Combustion	18MTP332	Biomass Conversion and Technologies
18MTP323	Design & Analysis of Thermal Systems	18MTP333	CAD for thermal engineering

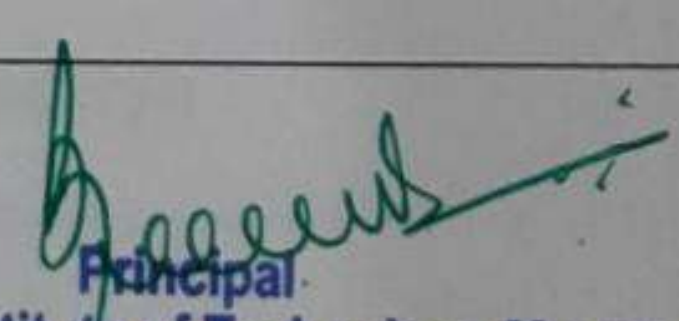
Note:

1. Project Phase-1: Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE (University examination) shall be as per the University norms.

2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.

Internship SEE (University examination) shall be as per the University norms.


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018-19
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

IV SEMESTER				Teaching Hours /Week		Examination					Credits
Sl. No	Course	Course Code	Title	Theo ry	Field work/ Assignmen	Dura tion in hours	CIE Mark s	SEE Mark s	Viva voce	Total Mark s	
1	Proj	18MTP41	Project work phase -2	--	04	03	40	60		100	20
TOTAL				--	04	03	40	60		100	20

Note: PC: Proj: Project.

Note:

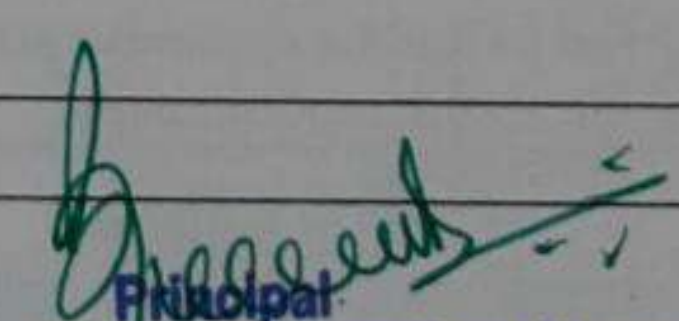
1. Project Phase-2:

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.


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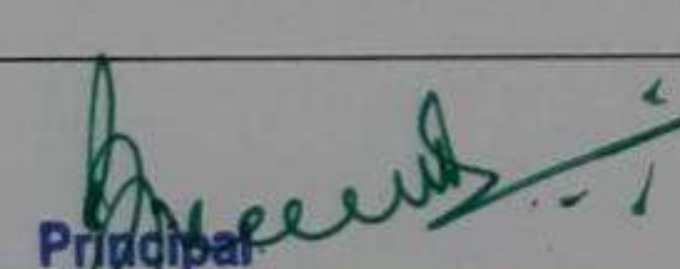
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2020 - 21											
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
I SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours per Week			Examination				Credits
				Theory	Practical	Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	SDA					
1	PCC	20MTP11	Applied Mathematics	03	--	02	03	40	60	100	4
2	PCC	20MTP12	Finite Element Method in Heat Transfer	03	--	02	03	40	60	100	4
3	PCC	20 MTP13	Advanced Fluid Mechanics	03	--	02	03	40	60	100	4
4	PCC	20MTP14	Combustion Thermodynamics	03	--	02	03	40	60	100	4
5	PCC	20 MTP15	Advanced Power Plant Cycles	03	--	02	03	40	60	100	4
6	PCC	20 MTPL16	Thermal Engineering Measurement Laboratory	--	04	--	03	40	60	100	2
7	PCC	20RMI17	Research Methodology and IPR	01	--	02	03	40	60	100	2
TOTAL				17	04	12	21	280	420	700	24
Note: PCC: Professional core.											
Skill development activities: Students and course instructor/s to involve either individually or in groups to interact together to enhance the learning and application skills. The students should interact with industry (small, medium and large), understand their problems or foresee what can be undertaken for study in the form of research/ testing / projects, and for creative and innovative methods to solve the identified problem. The students shall (1) Gain confidence in modelling of systems and algorithms. (2) Work on different software/s (tools) to Simulate, analyse and authenticate the output to interpret and conclude. Operate the simulated system under changed parameter conditions to study the system with respect to thermal study, transient and steady state operations, etc. (3) Handle advanced instruments to enhance technical talent. (4) Involve in case studies and field visits/ field work. (5) Accustom with the use of standards/codes etc., to narrow the gap between academia and industry. All activities should enhance student's abilities to employment and/or self-employment opportunities, management skills, Statistical analysis, fiscal expertise, etc.											
Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed internship credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as fail in internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.											
Note: (i) Four credit courses are designed for 50 hours Teaching – Learning process. (ii) Three credit courses are designed for 40 hours Teaching – Learning process. (iii) Two credit courses are designed for 25 hours Teaching – Learning process.											


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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2020 - 21											
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
II SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Seminar	Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20 MTP21	Advanced Heat Transfer	03	--	02	03	40	60	100	4
2	PCC	20 MTP22	Steam and Gas Turbines	03	--	02	03	40	60	100	4
3	PCC	20MTP23	Refrigeration and Air	03	--	02	03	40	60	100	4
4	PEC	20MTP24X	Professional Elective- 1	04	--	--	03	40	60	100	4
5	PEC	20MTP25X	Professional Elective- 2	04	--	--	03	40	60	100	4
6	PCC	20 MTPL26	Simulation Laboratory	--	04	--	03	40	60	100	2
7	PCC	20MTP27	Technical Seminar	--	02	--	--	100	--	100	2
TOTAL				17	06	06	18	340	360	700	24
Note: PCC: Professional core, PEC: Professional Elective.											
Professional Elective 1				Professional Elective 2							
Course Code under 20XXX24X		Course title		Course Code under 20XXX25X		Course title					
20MTP241		Energy Conservation and Management		20MTP251		Solar Thermal Technologies and applications					
20MTP242		Thermal Power Station		20MTP252		Modelling and Simulation of Thermal Systems					
20 MTP243		Nuclear Engineering in Power Generation		20MTP253		Computational Methods in Heat Transfer and Fluid Flow					
20MTP244		Cryogenics		20MTP254		Jet Propulsion and Rocketry					
Note:											
1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the programme shall be mandatory.											
The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and performance in Question and Answer session in the ratio 50:25:25.											
2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed internship credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as fail in internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.											

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2020 - 21											
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Mini-Project/ Internship	Skill Development activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	SDA					
1	PCC	20MTP31	Design of Heat Transfer Equipment for Thermal Power Plant	03	--	02	03	40	60	100	4
2	PEC	20MTP32X	Professional elective -3	03	--	--	03	40	60	100	3
3	PEC	20MTP33X	Professional elective -4	03	--	--	03	40	60	100	3
4	Project	20MTP34	Project Work phase -1	--	02	--	--	100	--	100	2
5	PCC	20MTP35	Mini-Project	--	02	--	--	100	--	100	2
6	Internship	20MTPI36	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)			03	40	60	100	6
TOTAL				09	04	02	12	360	240	600	20
Note: PCC: Professional core, PEC: Professional Elective.											
Professional elective 3				Professional elective 4							
Course Code under		Course title		Course Code under		Course title					
20MTP321		Convective Heat and Mass Transfer		20MTP331		Experimental Methods in Thermal Power Engineering					
20MTP322		Theory of IC Engines		20MTP332		Non-conventional Energy Resources					
20MTP323		Design and Analysis of Thermal Systems		20MTP333		Gas Dynamics					
20MTP324		Phase Change Phenomena in Fluids		20MTP334		Thermal Storage System					
Note:											
1. Project Work Phase-1:Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar.											
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and performance in Question and Answer session in the ratio 50:25:25.											
SEE (University examination) shall be as per the University norms.											
2. Internship: Those, who have not pursued /completed the internship shall be declared as fail in internship course and have to complete the same during subsequent University examinations after satisfying the internship requirements.											
Internship SEE (University examination) shall be as per the University norms.											


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Scheme of Teaching and Examinations – 2020 - 21
M.Tech in Thermal Engineering/Thermal Power Engineering (MTP)
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IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	20MTP41	Project work phase -2	--	04	03	40	60	100	20
TOTAL				--	04	03	40	60	100	20

Note:

1. Project Work Phase-2:
 CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and performance in Question and Answer session in the ratio 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.




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