

### 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
1.0			2019-20	68
	BE in Computer Science and		2018-19	64
1	B.E. in Computer Science and Engineering	B.E./CSE	2017-18	61
	Lingineering		2016-17	63
			2015-16	63
	in the		2019-20	70
			2018-19	70
2	B.E. in Civil Engineering	B.E./CV	2017-18	66
			2016-17	67
			2015-16	67
1.41			2019-20	63
	B.E. in Electronics and		2018-19	63
3	Communication Engineering	B.E./ECE	2017-18	62
	Communication Engineering		2016-17	62
			2015-16	62
			2019-20	63
4	B.E. in Information Science and	B.E./ISE	2018-19	65
	Engineering	D.L., 10L	2017-18	62
			2016-17	64



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-			2015-16	64
_			2019-20	73
			2018-19	72
5	B.E. in Mechanical Engineering	B.E./ME	2017-18	71
3	D.E. III Meetininen - B		2016-17	71
			2015-16	71
-			2019-20	20
			2018-19	20
6	M.Tech in Signal Processing	M.Tech/ECE	2017-18	21
			2016-17	22
			2015-16	-
			2019-20	22
			2018-19	22
7	M.Tech in Thermal Power	M.Tech/MTP	2017-18	22
	Engineering		2016-17	15
			2015-16	15
			2019-20	. 32
			2018-19	32
8	Master of Business Administration	MBA	2017-18	32
0			2016-17	32
			2015-16	31
			2019-20	45
			2018-19	45
9	Master of Computer Applications	MCA	2017-18	42
-			2016-17	41
			2015-16	41

Principal

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



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### EXAMINATION BE CIVIL ENGINEERING **III SEMESTER** SCHEME OF TEACHING &

				Teaching hours /week	hours k		Ex:	Examination	
SI. No	Subject Code	Title	Teaching Dept.	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	1	3	25	100	125
2	10 CV 32	Building Materials and		4	T	3	25	100	125
		Construction	Civil						
-		1 ecnnology							-
3	10 CV 33	Strength of Materials	Civil	4	:	3	25	100	125
4	10 CV 34	Surveying – I	Civil	4	1	3	25	100	125
5	10 CV 35	Fluid Mechanics	Civil	4	1	3	25	100	125
9	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
~	10 CVL 38	Surveving Practice - I	Civil		3	3	25	50	75
,			Total	22	08	24	200	200	006

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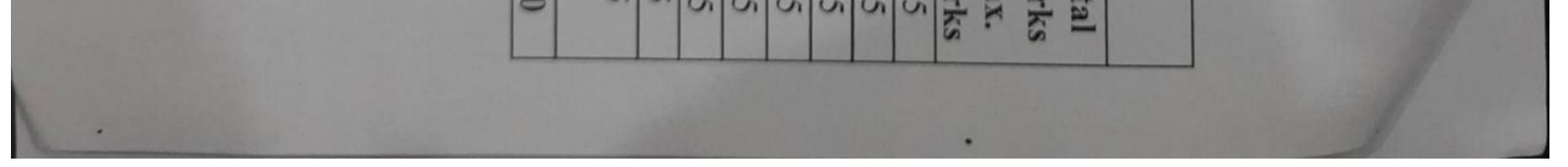
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### SCHEME OF TEACHING & EXAMINATION BE CIVIL ENGINEERING IV SEMESTER

				Teaching hours /week	hing /week		Examination	nation	
No No	Subject Code	Title .	Teaching Dept.	Th.	Pr.	Dur- ation	I.A. Max. Marks	Theory/ Pract. Max.	Tota Mark Max
								Marks	Mark
-	10 MAT 41	Engineering Mathematics –IV	Maths	4	:	3	25	100	125
2	10 CV 42	Concrete Technology	Civil	4	:	3	25	100	125
ω	10 CV 43	Structural Analysis - I	Civil	4	:	3	25	100	125
4	10 CV 44	Surveying - II	Civil	4	1	3	25	100	125
s	10 CV 45	Hydraulics and Hydraulic Machines	Civil	4	-	သ	25	100	125
6	10 CV 46	Building Planning & Drawing	Civil	1	6	4	25	100	125
7	10 CVL 47	09	Civil		3	3	25	50	75
~	10 CVL 48	Applied Engineering Geology Laboratory	Civil/Geo.	-	3	J	25	50	75
			Total	21	12	25	200	700	006

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			Teachi	Teaching Hrs / Week		Exam	Examination	
Subject Code	Title of the Subject	Teaching			A we have		Marks	
		Dept	Theory	Practical	(Brs)	NI	Theory / Practical	Total
10 AL 51	Management & Entrepreneurship	Any Dept.	04		03	25	100	125
10 CV 52	Design of RCC Structural Elements	Civil	04	4	03	25	100	125
10 CV 53	Structural Analysis – II	Civil	04	-	60	25	100	125
10 CV 54	Geotechnical Engineering I	Civil	04	**	63	25	1001	125
10 CV 55	Hydrology and Irrigation Engineering	Civil	04	1	60	25	100	125
10 CV 56	Transportation Engineering - I	Civil	04	-	63	25	100	125
10 CVL 57	Hydraulics and Hydraulic Machinery Lab.	Civil	:	60	03	25	50	75
10 CVL 58	Computer Aided Design Lab.	Civil		60	03	25	50	75
	TOTAL		24	90	24	200	700	006

# SCHEME OF TEACHING AND EXAMINATION B.E. CIVIL EINGINEERING VI SEMESTER

				Teach	Teaching Hrs / Week		Examination	nation
SI.	Subject Code	Title of the Subject	Teaching					Marks
			Dept	Theory	Practical	(Hrs)	1A	Theory /
-	10 CV 61	Environmental Engineering - I	Civil	64	t	03	25	100
2	10 CV 62	Design & Drawing of RC structures	Civil	02	03	04	25	100
3	10 CV 63	Transportation Engineering - II	Civil	04	1	03	25	100
4	10 CV 64	Geotechnical Engineering II	Civil	04	1	03	25	100
5	10 CV 65	Hydraulic Structures and Irrigation Design-Drawing	Civil	02	03	04	25	100
9	10 CV 66x	Elective-I (Group A)	Civil	04	1	03	25	100
1	10 CVL 67	Geotechnical Engineering. Lab.	Civil		03	03	25	50
00	10 CVL 68	Extensive Survey Viva Voce	Civil	:	03	03	25	50
		TOTAL		20	12	25	200	700

Total

125

125 75 75 900

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Ground Water Hydrology Rural Water Supply and Sanitation Traffic Engineering

CV 665 CV 666 CV 667

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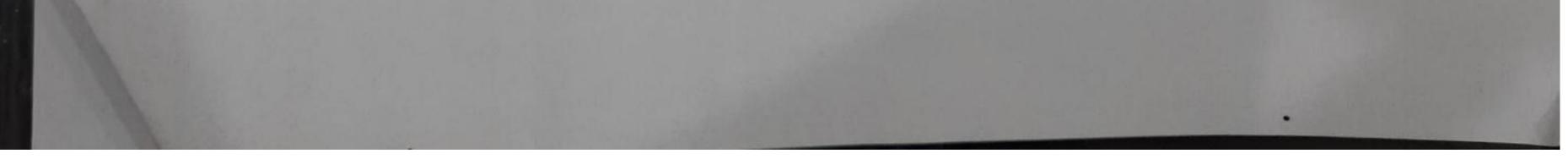
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# SCHEME OF TEACHING AND EXAMINATION B.E. CIVIL EINGINEERING V SEMIESTER

### Elective-I (Group A)



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	-	01	10	0	10	01	01 10		-	No Subj	0
	10 CVL 78	CVL 17	CV /bx	CV 75x	CV 74	CV 15	CV 12	LY 11		Subject Code	
TOTAL	Concrete and Highway Materials lab.	Environmental Engineering, Lab	Elective-III (Group C)	Elective-II (Group B)	Design of Pre Stressed Concrete Structures	Estimation and Valuation	Design of Stoel Structures	Environmental EngineeringII		Title of the Subject	
	Civil	Civil	Civil	Civil	Civil	Civil	Civil	Civil .	Dept.	Teaching	
24	1	:	04	04	04	04	04	04	Theory		Teaching
60	03	03	:		:	:		1	Practical		Teaching Hrs / Week
24	03	03	03	03	03	03	03	03	(Ifrs)	Duration	
200	25	25	25	25	25	25	25	25	IA		Exa
700	50	50	100	100	100 12	100	100	100	Theory / Practical	Marks	mination
900	75	75	125	125	125	125	125	125	Total		

10 CV 756	10 CV 751 10 CV 752 10 CV 753 10 CV 754 10 CV 755
Open Channel Hydraulies	Matrix Method of Structural Analy Advanced Design of RC Structures Design of Masonry Structures Earth and Earth Retaining Structure Highway Geometric Design

	01 1 0			-		-	-	No S	2
	CV 86		NB	V 83	2	UCVDI	1001 D 1	Sabject Cade	
TOTAL	Seminar	Project Work	JECTIVE-V (	COLUC-	ructure	Advanced ( oncrete Technology		Title of the Subject	
	Civil	Civil	Civil	Civil	Civil	Civil	Debr	Teaching	
14	3	1	04	04	02	04	Theory	1	Teaching h
12	03	06	4	1	03	1	Practical		Hrs / Week
19	03	03	03	03	04	03	(Hrs)	Duration	
250	50	100	25	25	25	25	IA		Exan
500		100	100	100	25 100 12	100	Theory / Practical	Marks	nination
750	50	200	125	125	125	125	Total		

Industrial Waste Water Treatment	10 CV 835
Earthquake Resistant Design of Sirv	HD CV 834
Pavement Design	10 CV 833
Advanced Foundation Design	10 CV 832
Advanced Pre-stressed Concrete St	IO CV KH

# SCHEME OF TEACHING AND EXAMINATION B.E. CIVIL EINGINEERING VII SEMIESTER

### Elective-III (Group C)

Air Pollution and Control	10 CV 765	
	10 CV 764	0.5
Pavement Materials and Construction	10 CV 763	
	10 CV 762	
_	10 CV 761	S

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10 CV 766 Design and Drawing of Bridges.: \* (2 Hrs of Theory + 3 Hrs of Drawing) \* (Exam Duration : 4 Hrs) Structural Dynamics

10 CV 767

# SCHEME OF TEACHING AND EXAMINATION B.E. CIVIL EINGINEERING VIII SEMESTER

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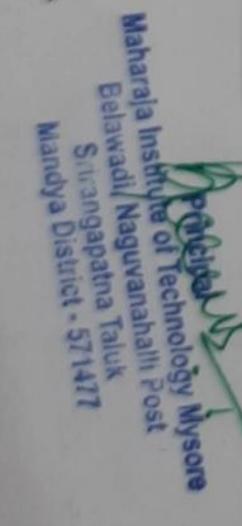
B	TO DO DO
Water Resources Engineering	10 CV 846
Finite Element Analysis Reinforced Earth Structures Urban Transport Planning Geographic Information System Advanced Design of Steel Structu	10 CV 841 10 CV 842 10 CV 842 10 CV 843 10 CV 844
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# **ISVESVARAYA TECHNO** 50 GICAL UNIVERSITY, BELGAUM

# omputer Science and Engineering B.E

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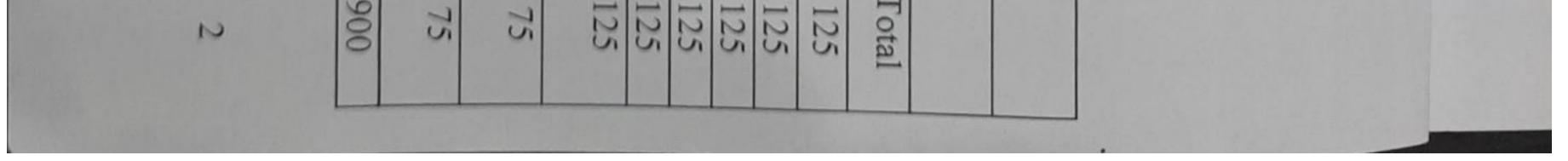
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### SCHEME OF TEACHING AND EXAMINATION B.E. COMPUTER SCIENCE AND ENGINEERING (Common to CSE & ISE)

### III SEMESTER

		~	7	6	5	4	ω	2	1				S. No.
		10CSL38	10CSL37	10CS36	10CS35	10CS34	10CS33	10CS32	10MAT31				Subject Code
	Total	Electronic Circuits & Logic Design Laboratory	Data Structures with C/C++ Laboratory	Object Oriented Programming with C++	Data Structures with C	Discrete Mathematical Structures	Logic Design	Electronic Circuits	Engineering Mathematics - III				Subject
	Martinese	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	Mathematics			1	Teaching Dept.
	24	,	1	04	04	04	04	04	04		Incory		Teaching Hrs / Week
	90	03	03		1		•		1		cal		Hrs /
	,	03	03	03	03	03	03	03	03		(Hrs)		
	200	25	25	25	25	25	25	25	25	IA			Exami
-	700	50	50	100	100	100	100	100	100	Exam	Marks	Maulta	Examination
	9	7	-	1	1	1	1	1	1	T			

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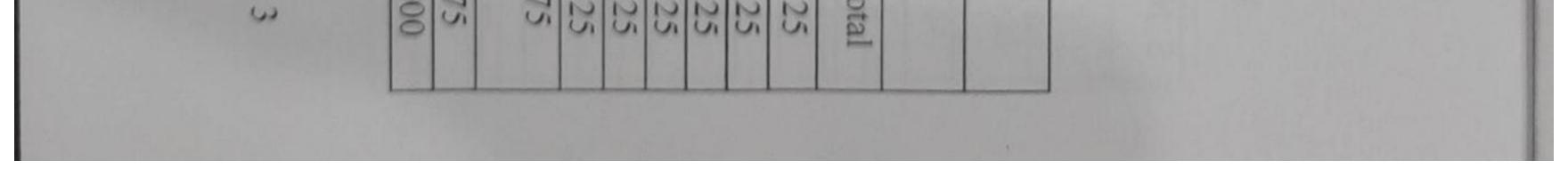
### N SEMESTER

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	8		7	6	5	4	w	2	1			S. No.
	10CSL48		10CSL47	10CS46	10CS45	10CS44	10CS43	10CS42	10MAT41			Subject Code
Total	Microprocessors Laboratory	Laboratory	Design and Analysis of Algorithms	Computer Organization	Microprocessors	Unix and Shell Programming	Design and Analysis of Algorithms	Graph Theory and Combinatorics	Engineering Mathematics - IV			Subject
	CSE/ISE		CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	Maths			Teaching Dept.
24	,		1	04	04	04	04	04	04		Theory	Teaching Hrs / Week
60	03		03								Practi cal	; Hrs /
	03		03	03	03	03	03	03	03		Duration (Hrs)	
200	25		25	25	25	25	25	25	25	IA		Examination
700	50		50	100	100	100	100	100	100	Exam	Marks	nation
90	75		75	12	12	12	12	12	12	Tot		

### CHING AND EXAMINATION non to CSE & ISE)

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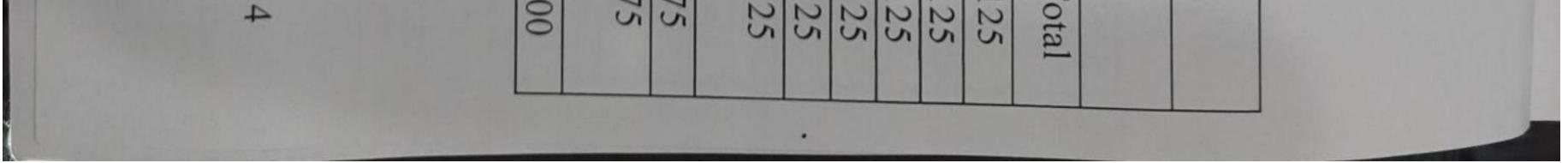
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### **V SEMESTER**

No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week	Hrs /		Examination	nation	
				Theory	Practi cal	Duration (Hrs)		Marks	Consider
							IA	Exam	Tot
1	10IS51	Software Engineering	CSE/ISE	04	1	03	25	100	12
2	10CS52	Systems Software	CSE/ISE	04	1	03	25	100	12
3	10CS53	Operating Systems	CSE/ISE	04	1	03	25	100	12
4	10CS54	Database Management Systems	CSE/ISE	04	1	03	25	100	12
S	10CS55	Computer Networks - I	CSE/ISE	04	1	03	25	100	12
6	10CS56	Formal Languages and Automata Theory	CSE/ISE	04	1	03	25	100	12:
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	90	1	200	700	900

### NCE AND ENGINEERING **NG AND EXAMINATION**

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Srirangapatna Taluk



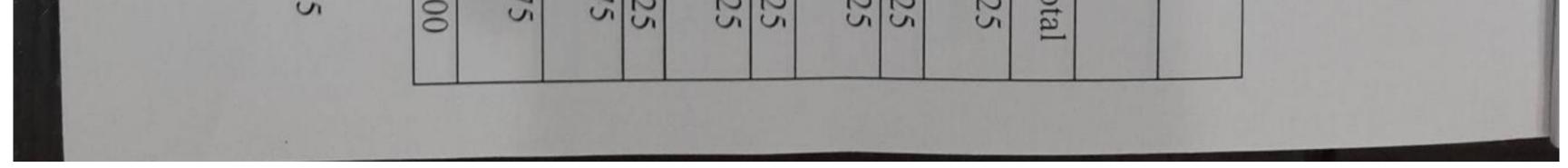
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### **VI SEMESTER**

	8	7	6	5	4		3	2		-				S. No.
	10CSL68	10CSL67	10CS66x	10CS65 / 10IS665	10CS64	10IS662	10CS63/	10CS62	TOTITOT	10AL61				Subject Code
Total	Unix System Programming and Compiler Design Laboratory	Computer Graphics and Visualization Laboratory	Elective I (Group-A)	Computer Graphics and Visualization	Computer Networks - II		Compiler Design	Unix System Programming	municht and Entrebrenenismb	Management and Entrepreneurship				Subject
	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE		CSE/ISE	CSE/ISE	MBA	CCE/ICE/				Teaching Dept.
24	1		04	04	04		04	04	40	DA I		У	Theor	Teaching Hrs Week
60	03	03	-		1			I	1				Practical	g Hrs /
	03	03	03	03	03		03	03	CO	50		(Hrs)	Duration	
200	25	25	25	25	25		25	25	67	20	IA			Examination
700	50	00	100	100	100		100	100	TOO	100	Exam		Marks	nation
90	7:	1	12	12:	12:		12:	12:	12.	10	Tot			

# B.E. COMPUTER SCIENCE AND EXAMINATION

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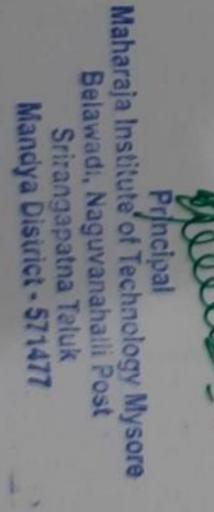
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### VII SEMESTER

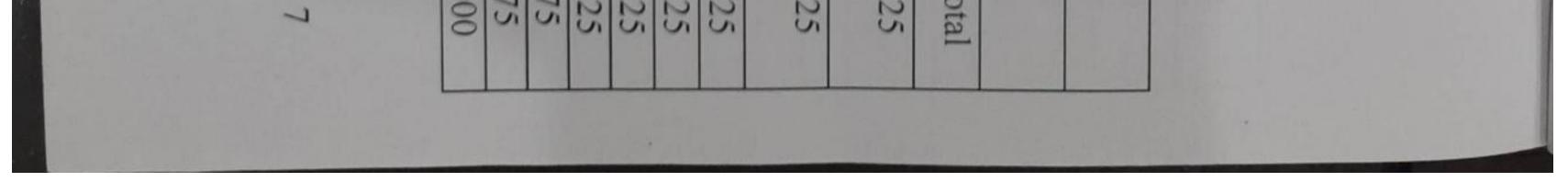
	8	7	6	5	4	3	2	1			S. No.
	10CSL78	10CSL77	10CS76x	10CS75x	10CS74	10CS73	10CS72/ 10IS752	10CS71			Subject Code
Total	Web Programming Laboratory	Networks Laboratory	Elective III(Group-C)	Elective II (Group-B)	Advanced Computer Architectures	Programming the Web	Embedded Computing Systems	Object-Oriented Modeling and Design			Subject
	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE			Teaching Dept.
24		1	04	04	04	04	04	04		Theory	Teaching Hrs / Week
06	03	03		1	1	1	1	1		Practi cal	Hrs /
	03	03	03	03	03	03	03	03		Duration (Hrs)	
200	25	25	25	25	25	25	25	25	IA		Examination
00/	50	50	100	100	100	100	100	100	Exam	Marks	nation
900	75	75	12	12	12	12:	12:	12:	Tot		

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



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**B.E. COMPUTER S** 

### VIII SEMESTER

	6	5	4	3	2	1					S. No.
	10CS86	10CS85	10CS84x	10CS83x	10CS82	10IS81					Subject Code
Total	Seminar	Project Work	Elective V(Group-E)	Elective IV(Group-D)	System Modeling and Simulation	Software Architectures					Subject
	CSE	CSE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE				Dept.	Teaching
16	1		04	04	04	04			Theory	Week	Teaching Hrs
06	1	90	1	1	1			cal	Practi		Hrs /
		03	03	03	03	03			Duration		
250	50	100	25	25	25	25	IA				Examination
000		100	100	100	100	100	Exam		Marks		ation
c/	5(	20	12	12	12	12	Tot				

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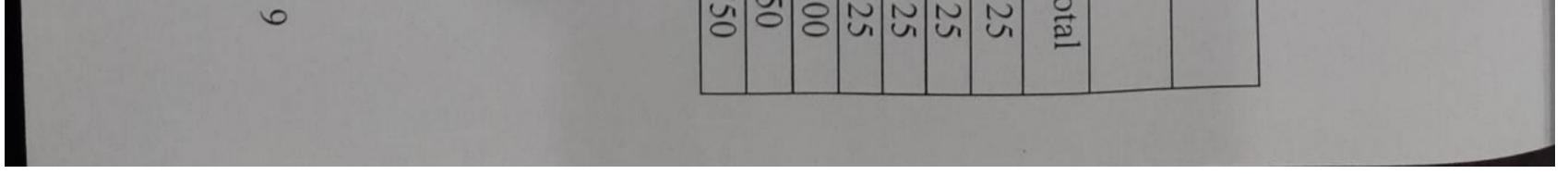
# SCHEME OF TEACHING AND EXAMINATION CIENCE AND ENGINEERING

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# Elective IV – Group D

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

Wireless Networks and Mobile Computing10CS841/10IS841Web 2.0 and Rich Internet Applications10CS841VLSI Design and Algorithms10CS842Network Management Systems10CS843Information and Network Security10CS845/10IS844Microcontroller-Based Systems10CS846

NOTE: Students have to register for one Elective from

## Elective V– Group E

each of the five Elective Group.

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



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### SCHEME OF TEACHING & EXAMINATION **ELECTRONICS & COMMUNICATION ENGINEERING**

Subject Code 10MAT - 31 10ES - 32 10ES - 33 10ES - 34 10IT- 35	Title	Teach	100 C	iching s/week		Exar	nination	
Code	True	Dept.	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	a	04		03	25	100	125
10ES-33	Logic Design	(a)	04		03	25	100	125
10ES-34	Network Analysis	a	04		03	25	100	125
10IT- 35	Electronic Instrumentation	a	04	A State	03	25	100	125
10ES-36	Field Theory	a	04		03	25	100	125
10ESL - 37	Analog Electronics Lab	a		03	03	25	50	75
10ESL - 38	Logic Design Lab	a		03	03	25	50	75
		Total	24	06	24	200	700	900

### **III SEMESTER (COMMON TO EC/TC/ML)**

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### SCHEME OF TEACHING & EXAMINATION ELECTRONICS & COMMUNICATION ENGINEERING

Subject Code		Teach		iching s/week		Exau	nination	
and a start of the second s	Title	Dept.	Theory	Practical	Duration	1. A	Theory/ Practical	Total Marks
10MAT - 41	Engg. Mathematics - IV	Mat	04		03	25	100 *	125
10ES- 42	Microcontrollers	(a)	04		03	25	100	125
10ES - 43	Control Systems	(a)	04		03	25	100	125
10EC - 44	Signals & Systems	a	04		0.3	25	100	125
10EC 45	Fundamentals of HDI	0	0.1		03	25	100	125

### IV SEMESTER (COMMON TO EC/TC/ML)

		Total	24	06	24	200	700	900
10ECL - 48	HDL Lab	a		03	03	25	50	75
10ESL-47	Microcontrollers Lab	a		03	03	25	50	75
10EC - 46	Linear ICs & Applications	a	04		03	25	100	125
1000 40	i unuamentais or more							

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

					ing Hrs /		Exam	ination	
SL	Subject	Title of the Subject	Tenching			Section 1	1.1	Marks	
NO.	Code	The of the Subject	Dept.	Theory	Practical	Duration (Hrs)	18	Theory / Practical	Total
01	10AL51	Management and Entrepreneurship	EC	4	-	3	25	100	125
02	AVALUCTOR	Digital Signal Processing	EC	4	4	3	25	100	125
	10EC52	and the second	EC	4	-	3	25	100	125
03	10EC53	Analog Communication	and the second design of the s			3	25	100	125
04	10EC54	Microwaves and Radar	EC	4	-		25	100	125
05	10EC55	Information Theory and Coding	EC	4	-	3	and the second se	and the second se	125
06	10EC36	Fundamentals of CMOS VLSI	EC	4		3	25	100	the second se
	and the second se	A REAL PROPERTY AND A REAL	EC		3	3	25	50	75
07	10ECL57	DSP Lab	LU					20	75
08	10ECL58	Analog Communication Lab + LIC Lab	EC	*	3	3	25	50	900
		TOTAL		24	06	24	200	700	500

SCHEME OF TEACHING AND EXAMINATION

### B.E. ELECTRONICS AND COMMUNICATION

### VI SEMESTER

				and the second se	ching Week		Exam	ination	
SI.	Subject	Title of the Subject	Teaching			D. Mar		Marks	
No.	Code		Dept.	Theory	Practical	Duration (Hrs)	IA	Theory / Practical	Total
	1000000	Distant Communication	EC	4	-	3	25	100	125
	1012061	Digital Communication	EC	4	-	3	25	100	125
2	10EC62	Microprocessors				3	25	100	125
	10EC63	Microelectronics Circuits	EC	4	-	3			125
4	10EC64	Antennas and Propagation	EC	4	-	5	25	100	
_		and the second design of the s	EC	4		3	25	100	125
5	10EC65	Operating Systems	EC	4	-	3	25	100	125
6	10EC66x	Elective-I (Group A)			2	3	25	50	75
	10ECL67	Advanced Communication Lab	EC	-	5	3			75
8	10ECL68	Microprocessor Lab	EC		3	3	25	50	
0	101000000	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

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



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

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### VII Semester

51.	Subject		A	and the second se	ning Hrs / Veek		Exam	ination	
No.	Code	Title of the Subject	Teaching Dept.		10.000	The second second	1000	Marks	
				Theory	Practical	Duration (Hrs)	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
3	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	1	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\*

Elective-III (Group C)

10EC761 - Programming in C++

10EC762 - Real Time Systems

10EC763 - Image Processing

10EC764 - Radio Frequency Integrated Circuits

10EC756 - Speech Processing

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

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

VIII SEMESTER



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SI. No.	Subject Code	Title of a second	T	Teaching	Hrs / Week		Exan	nination	
	Code	Title of the Subject	Teaching Dept.			Duration		Marks	
1	10EC81	Wireless Communication		Theory	Practical	(Hrs)	IA	Theory / Practical	Total
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-IV (Group D)	EC	4	-	3	25	100	125
5	10ECP85	(Choup E)	EC	4	-	3	25	100	125
6	10ECS86	Project Work	EC		6	3	100	100	200
	1.020000	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

Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk

Srirangapatna Taluk Mandya District - 571477

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

# VISVESVARAYA TECHNOI GICAL UNIVERSITY, BELGAUM

# nformation Science and

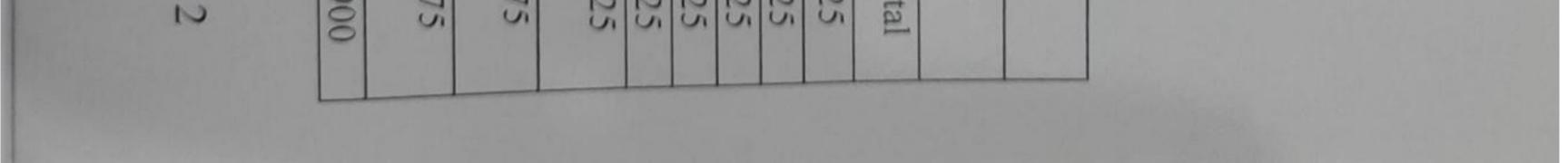
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Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



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UK	100	200		00	.24		Total		
00	00c	C7	co	c O		CSE/ISE	Electronic Circuits & Logic Design Laboratory	10CSL38	8
CI	00	2C C7	03	03		SE/	h C/C++	10CSL37	7
125	100	25	03		04	E	Object Oriented Programming with C++	10CS36	6
125	100	25	03	1	04	CSE/ISE	Data Structures with C/C++	10CS35	S
125	100	25	03	1	04	CSE/ISE	Discrete Mathematical Structures	10CS34	4
125	100	25	03	1	04	CSE/ISE	Logic Design	10CS33	3
125	100	25	03	1	04	CSE/ISE	Electronic Circuits	10CS32	2
125	100	25	03	1	04	Mathematics	Engineering Mathematics - III	10MAT31	-
Tota	Exam	IA							
	Marks		Duration (Hrs)	Practi cal	Theory				
	ation	Examination		Hrs /	Teaching Week	Teaching Dept.	Subject	Vo. Subject Code	S. N
								II SEMESTER	
			5	NEERIN	EXAMINA ND ENGIN ISE)	MCHING AND I N SCIENCE AN Mon to CSE &	SCHEME OF TEACH B.E. INFORMATION SO (Commo		



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

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### IV SEMESTER

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	10CSL48		10CSL47	10CS46	10CS45	10CS44	10CS43	10CS42	10MAT41			Subject Code
Total	Microprocessors Laboratory	Laboratory	Design and Analysis of Algorithms	Computer Organization	Microprocessors	Unix and Shell Programming	Design and Analysis of Algorithms	Graph Theory and Combinatorics	Engineering Mathematics - IV			Subject
	CSE/ISE		CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	Maths			Teaching Dept.
24			1	04	04	04	04	04	04		Theory	Teaching Hrs / Week
06	03		03	1		1	•	•	1		Practi cal	Hrs /
	03		03	03	03	03	03	03	03		Duration (Hrs)	
200	25		25	25	25	25	25	25	25	IA		Examination
700	50		50	100	100	100	100	100	100	Exam	Marks	ation
900	75		75	125	125	125	125	125	125	Total		

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

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### V SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week	Hrs /		Examination	ation	
				Theory	Practi	Duration (Hrs)		Marks	
			•		Vai	(mark)	IA	Exam	Tota
-	101551	Software Engineering	CSE/ISE	04		03	25	100	125
, c	100000	Cuctame Cofficiente	CSE/ISE	04		03	25	100	1
7 6	100050	Operating Contemp	COE/ICE	04		03	25	100	1
	100051	Operating oystering	COE/ICE	04		50	25	100	1
4	100334	Database intallagentent systems		0.		00	20	100	_
5	10CS55	Computer Networks - I	CSE/ISE	04	•	03	25	100	
6	10CS56	Formal Languages and Automata	CSE/ISE	04	1	03	25	100	-
	•	Theory							
7	10CSL57	Database Applications Laboratory	CSE/ISE	•	03	03	25	00	10
~	10CSL58	Systems Software & Operating	CSE/ISE	•	03	03	25	50	
		Systems Laboratory							
		Total		24	06		200	00/	JOK

# SCIENCE AND EXAMINATION

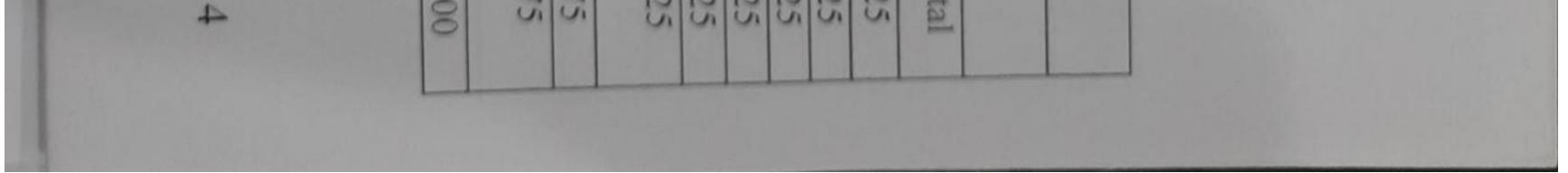
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### **VI SEMESTER**

	_									1.4				
		8	7	6	5	4		2		T				S. No.
		10ISL68	10ISL67	10IS66x	10IS65	10CS64	101863	10CS62		10AL61			Cone	Subject
Elastina I Cuana A	Total	Software Testing Laboratory	File Structures Laboratory	Elective I (Group-A)	Software Testing	Computer Networks - II	File Structures	Unix System Programming		Management and Entrepreneurship				Subject
		CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	CSE/ISE	A	CSE/ISE/MB			Dept.	Teaching
	24	-	-	04	04	04	04	04		04			Theory	Teaching
	60	03	03	1	1								Practical	Teaching Hrs /Week
		03	03	03	03	03	03	03		03	(Hrs)	n	Duratio	
	200	25	25	25	25	25	25	25		25	IA			Exam
	700	50	50	100	100	100	100	100		100	Exam	IVIDINS	Marka	Examination
	900	75	75	125	125	125	125	125		125	Total			

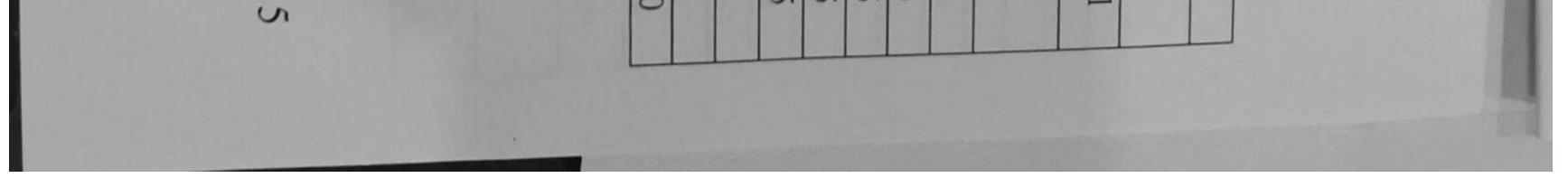
10IS661/10CS661 Elective 10IS666/10CS666 10IS665/10CS65 0IS663/10CS663 0IS662/10CS63 0IS664/10CS664 - Group 2

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

**Operations** Research Data Compression Programming Languages Pattern Recognition Compiler Design Computer Graphics and Visualization

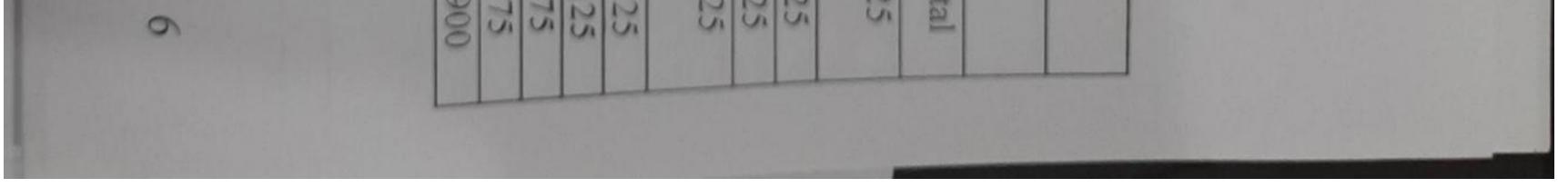
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06	1 700	200		06	24		Total		
75	50	25	03	03		CSE/ISE	and the second second	10CSL78	8
75	50	25	03	03			Networks Laboratory	10CSL77	7
12:	100	25	03		04		ive III(	10IS76x	6
125	100	25	03		04	CSE/ISE	Elective II (Group-B)	10IS75x ·	5
125	100	25	03		04		Data Warehousing and Data Mining	10IST	4
125	100	25	03		04	CSE/ISE	Programming the Web	10CS73	3
125	100	25	03		04	CSE/ISE	Information Systems	OI	2
125	100	25	03		04	CSE/ISE	Object Oriented Modeling and Design	10CS71	1
Total	Exam	IA							
	Marks		Duration (Hrs)	Practi cal	Theory				
	ation	Examination		Hrs/	Teaching Week	Teaching Dept.	Subject	Subject Code	S. No.
				AMINATION ENGINEERING	EXAMINA ND ENGIN	CHING AND I SCIENCE AN	SCHEME OF TEAC B.E. INFORMATION S	SEMESTER	VII



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## Elective II – Group B

10IS751/10CS751 10IS752/10CS751 10IS753/10CS753 10IS754/10CS754 10IS755 10IS756/10CS756

Advanced DBMS Embedded Computing Systems JAVA and J2EE Multimedia Computing Advanced Software Engineering Neural Networks

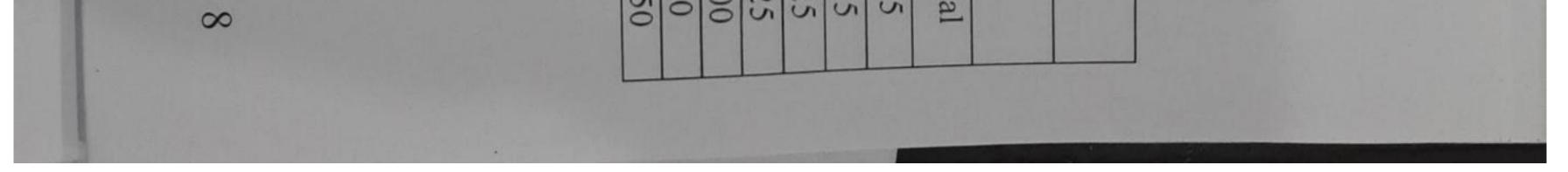
Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477 10IS761/10CS761 10IS762/10CS762 10IS766/10CS766 0IS765/10CS765 0IS764/10CS764 0IS763/10CS763 rincipal. -Elective III – Group C C# Programming and .Net Digital Image Processing Game Theory Artificial Intelligence Fuzzy Logic Storage Area Networks -



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-	IUU	100	03	06		ISE	Draight Wark	101005	n
	100	100	03	60		ISE	Project Work	10IS85	л. —
	100	25	03	1	04	CSE/ISE	Elective V(Group-E)	10IS84x	4
	100	25	03	_ e10.81	Lisch 04ogy M	CSE/ISE	Elective IV(Group-D)	10IS83x	3
	100	25	03	ı	Mar 04 Loss	CSE/ISE	System Modeling and Simulation	10CS82	2
125	100	25	03	1	04	CSE/ISE	Software Architectures	10IS81	1
Tota	Exam	IA							
				cal					
	Marks		Duration	Practi	Theory				
					Week	Dept.			
	ation	Examination		Hrs /	Teaching Hrs	Teaching	Subject	Subject Code	S. No.
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## Elective IV – Group D

10IS831/10CS831 10IS832/10CS832 10IS833 10IS834/10CS834 10IS835/10CS835 10IS836/10CS836

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

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



uting 10IS841/10CS841 ns 10IS842 10IS843 10IS844/10CS844 10IS845/10CS844 10IS845/10CS845

Ad-hoc Networks Information Retrieval Supply Chain Management Services Oriented Architecture Clouds, Grids and Clusters Decision Support Systems

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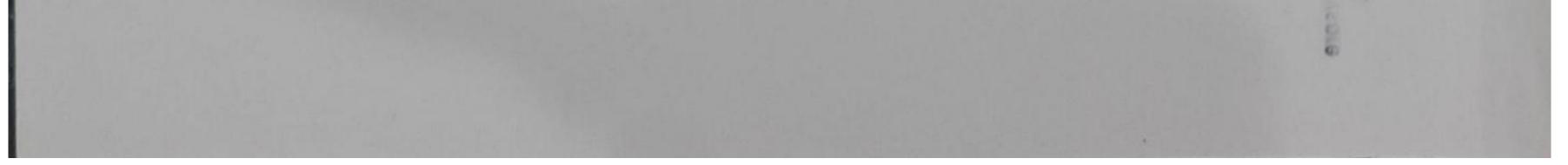
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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM SCHEME OF TEACHING AND EXAMINATION

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		80	7	6	5	4	ω	2	-		S.No.
	III SEMESTER	10MEL38A/10MEL38B	10MEL37A/10MEL37B	10ME36A/10ME36B	10ME35	10ME34	10ME33	10ME32A/10ME32B	10MAT31		Sub-Code
	B.E.	Foundry & Forging lab / Machine Shop	Metallography & Material Testing Lab / Mech. Measurements & Metrology Lab	Computer Aided Machine Drawing / Fluid Mechanics	Manufacturing Process I	Mechanics of Materials	Basic Thermodynamics	Material Sc. & Metallurgy / Mechanical Measurements & Metrolgy	Engg. Maths – III		Title
		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mathematics		Teaching Dept.
	21/24	:	1	01 04	04	04	04	04	04	Theory	Teachin
Maha	9	03	03	- 03	1	:	:	:	:	y Pract. / Drg.	Teaching Hours / week
raja nstitute Belawadi, Na Srirang Mandya	24	03	03	03	03	03	03	03	03	Duration	
and Bahana Taluk Laguvanahalli Post Laguvanahalli Post District - 571477	200	25	25	25	25	25	25	25	25	Max. I.A. Marks	Exam
y Mysore	700	50	50	100	100	100	100	100	100	Max. Theory /Pr.	Examination
	900	75	75	125	125	125	125	125	125	Total marks	

III SEMESTER B.E. MECHANICAL



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	10MEL48A/10MEL48B	10MEL47A/10MEL47B	10ME46A/10ME46B	10ME45	10ME44	10ME43	10ME42A/10ME42B	10MAT41		Sub-Code
	Foundry & Forging lab / Machine Shop	Metallography & Material Testing Lab / Mech. Measurements & Metrology Lab	Computer Aided Machine Drawing / Fluid Mechanics	Manufacturing Process II	Kinematics of Machines	Applied Thermodynamics	Material Sc. & Metallurgy / Mechanical Measurements & Metrolgy	Engg. Maths – IV		Title
	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mathematics		Teaching Dept.
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200	25	25	25	25	25	25	25	25	Max. I.A. Marks	Exam
700	50	50	100	100	100	100	100	100	Max. Theory /Pr.	Examination
006	75	75	125	125	125	125	125	125	Total marks	

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# VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

SCHEME OF TEACHING AND EXAMINATION

IV SEMESTER B.E. MECHANICAL



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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM SCHEME OF TEACHING AND EXAMINATION

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8 Energy Conversion Engg. Lab	Lab	Fluid Mechanics & Machines	Turbo Machines		Manufacturing Process III	Dynamics of Machines	Energy Engineering		Design of Machine Elements I	Management and Entrepreneurship		IIII	Title
b 24	-	;	04	2	04	04	04		04	04		Theory	Teaching H
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V SEMESTER B.E. MECHANICAL

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Maharaja Institute of Technology Mysora Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477 Lever the . -



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	10MEL68	10MEL67	10ME66X	10ME65	10ME64	10ME63	10ME62	10ME61		Sub-Code	
	CAMA Lab	Heat & Mass Transfer Lab	Elective 'A'	Mechatronics & 🗆 P	Finite Element Methods	Heat & Mass Transfer	Design of Machine Elements II	Computer Integrated Manufacturing		Title	-
24	:	:	04	04	04	04	04	04	Theory	Te: Hou	I OLIVILOI L
90	03	03	1	:	1	:		:	Pract/ Drg.	Teaching Hours/week	
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200	25	25	25	25	25	25	25	25	Max. I.A. Marks	Examination	
700	50	50	100	100	100	100	100	100	Max. Theory /Pr.		
900	75	75	125	125	125	125	125	125		Total Marks	

VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

SCHEME OF TEACHING AND EXAMINATION

VI SEMESTER B.E. MECHANICAL

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10ME661 Theory of Elasticity

10ME663 Refrigeration & Air Condition

10ME665 Non Traditional Machining

10ME667 Project Management

								ning		E
						10ME668	10ME666	10ME664	10ME662	Elective 'A'
						8 Statistic Quality	Knowledge	4 Design of Heat	2 Mechanics of	
						ity Control	Management	at Exchangers	Composite Mat	
				Maf					terials	
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	10MEL79	10MEL78	10MEL77	10ME76X	10ME75X	IOME74	10ME73	IOME72	10ME71		Sub-Code
	Project Phase I	CIM and Automation Lab	Design Lab	Elective C	Elective B	Operations Research	Hydraulics and Pneumatics	Mechanical Vibrations	Engineering Economics		Title
24	1	:	:	04	04	04	04	04	04	Theory	Teaching
90	;	03	03	:	1	:	:	1		Pract. J Drg.	Hours/week
24		03	03	03	03	03	50	03	60	Duration	Ex
250	50	25	25	25	25	25	25	25	25	Max. I.A. Marks	Examination
700	1	50	50	100	100	100	100	100	100	Max. Theory /Pr.	
950	50	75	75	125	125	125	125	125	125	Marks	Total

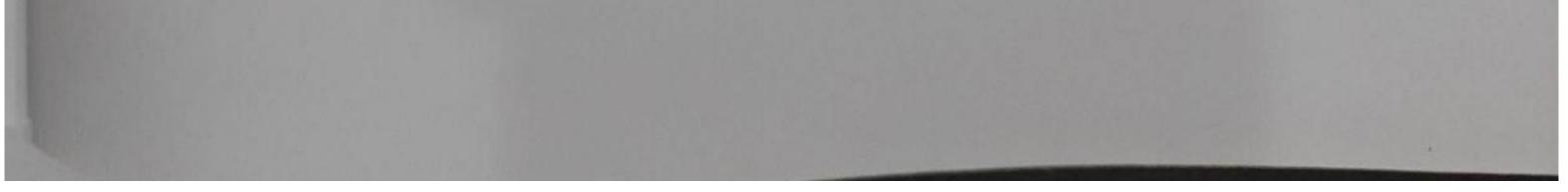
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# MINATION VII SEMESTER B.E. MECHANIC



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



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# VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

HING AND EXAMINATION

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VIII SEMESTI

S.No.

Sub-Code

Title

Theory

			i	)4	)4	04	04	eory	Tea Hour
	60	03	06	:	:	:	:	Pract/ Drg.	Teaching Hours/week
	15		03	03	03	03	03	Duration	Exa
	250	50	100	25	25	25	25	Max. I.A. Marks	Examination
	500	:	100	100	100	001	100	Max. Theory /Pr.	
	750	50	200	125	125	125	125		Total Marks

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10ME86L

Seminar

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10ME85L

Project Work

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10ME84X

Elective E

04

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10ME83X

Elective D

04

2

10ME82

Control Engineering

04

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10ME81

Management

04

Operations



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Elective 'D'

10ME831 Tribology

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10ME833 Power Plant Engineering

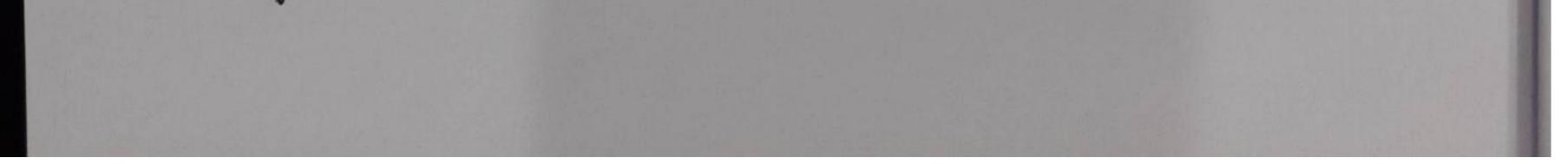
10ME835 Orgisational Behaviour an Professioanl Communication

10ME837 Rapid Prototyping

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	nd			
10ME838 Foundry Technology	10ME836 Computer Graphics	10ME834 Nano Technology	10ME832 Fracture Mechanics	
10ME847 Design of Experiments	10ME845 Database Management System	10ME843 Bio Mass Energy Systems	10ME841 Machine Tool Design	Elective 'E'
10ME848 Design for Manufacture	10ME846 Artificial Intelligence	10ME844 Automotive Engineering	10ME842 Industrial Engineering & Ergonomics	е 'Е'



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# CHEMISTRY GROUP

rks	Total	125	125	125	125	125	75	75	75		775
<b>Examination Marks</b>	LA.	25	25	25	25	25	25	25	25		**175
Examin	Th./Pr.	100	100	100	100	100	50	50	50		**600
Theory /Lab/	Drawing (Hrs/ Week)	4 (T)	4 (T)	4 (T)	6 (2T + 4L)	4 (T)	3 (L)	3 (L)	2 (T)	2 (T)	32
	Board	Basic Sc.	Basic Sc.	CSE	Mech. Engg.	E&C	CSE	Basic Sc.	Civil		Total
Teaching	Department	Maths	Chemistry	Any Engineering Department	Mech./IP/Auto/ Mfg.Engg./ IEM	E&C/E&E /TC/IT	Any Engineering Department	Chemistry	Civil / Environmental	Humanities	
	Subject	Envincerine Maths-I	Engineering Chemistry	Programming in C & Data Structures	Computer Aided Engineering Drawing	Basic Electronics	Computer Programming Lab	Enge. Chemistry Lab	*Environmental Studies	Language (Eng.)	
	Subject	14MAT11	14CHF12	14PCD13	14CED14	14ELN15	14CPL16	14CHEL17	14CIV18		
	No.	-		1 m	4	8	9	5	00	6	

3. Tech.

KOUL	rks	Total	125	125	125	125	125	75	75	75		775 wever
CHEMISINI GROUP	Examination Marks	LA.	25	25	25	25	25	25	25	25		**175   Isorily, ho
THE PARTY	Examin	Th./Pr.	100	100	100	100	100	50	50	50		**600 ject compul
	Theory /Lab/	Drawing (Hrs/ Week)	4 (T)	4 (T)	4 (T)	6 (2T + 4L)	4 (T)	3 (L)	3 (3)	2 (T)	2 (T)	Total         32         **600         **175         775           Students have to pass the subject compulsorily, however
	Dand	DUALU	Basic Sc.	Basic Sc.	CSE	Mech. Engg.	E&C	CSE	Basic Sc.	Civil		Total students have
	Teaching	Department	Maths	Chemistry	Any Engineering Department	Mech./IP/Auto/ Mfg.Engg./ IEM	E&C/E&E /TC/IT	Any Engineering Department	Chemistry	Civil / Environmental	Humanities	Cype.
		Subject	Engineering Maths-II	Engineering Chemistry	Programming in C & Data Structures	Computer Aided Engineering Drawing	Basic Electronics	Computer Programming Lab	Engg. Chemistry Lab	*Environmental Studies	Language (Eng.)	CIP/Env.Engg. : Question Papers will be of Objective Type. marks will not be considered for awarding class / rank.
	Subject	Code	14MAT21	14CHE22	14PCD23	14CED24	14ELN25	14CPL26	14CHEL27	14CIV28		P/Env.Engg. : ris will not be
	21	No.	-	2	m	4	5	9	6	00	6	* CII

Language (Kan./Eng.) - Audit Course

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

# I SEMESTER B.E./B.Tech.

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#### **B.E. CIVIL ENGINEERING**

~				ng Hours / Veek	Examination					
SI. No	Subject Code	Title	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	
5	15CV36	Building Materials and Construction	04		03	80	20	100	4	
,	15CVL37	Building Materials Testing Laboratory		1I+2P	03	80	20	100	2	
-	15CVL38	Basic Surveying Practice		1I+2P	03	80	20	100	2	
	Contraction of the	TOTAL	24	6	24	640	160	800	28	

(Common to \_\_\_\_\_

Note:

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

Receeds

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



#### **B.E. CIVIL ENGINEERING**

(Common to \_\_\_\_\_)

	ESTER			g Hours / eek					
SL No	Subject Code	Title	Theory	Practical / Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	Credits
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
3	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

Maharaja Institute of Technology N Belawadi, Naguvanahalii Posi Srirangapatna Taluk Mandya District - 57 1477



#### **B.E. CIVIL ENGINEERING**

~	Subject		and the second se	iching s /Week		Credits			
Sl. No.	Code	Title	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	15CUECY		0.0						

#### V SEMESTER

		TOTAL	19	09	24	640	160	800	26
8	15CVL58	Concrete and Highway Materials Laboratory		1I+2P	03	80	20	100	2
7	15CVL57	Geotechnical Engineering Laboratory		1I+2P	03	80	20	100	2
0	IJCVJOA	Open Elective-1	03		03	80	20	100	3

Profession	al 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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	I SEMESTEI	<	the second se	ching s /Week		Examin	ation		Credit
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
1		Design of Steel Structural Elements	04		03	80	20	100	4
2	15CV62	15	04		03	80	20	100	4
3	15CV63	Highway Engineering			09924	80	20	100	4
4	15CV64	Water Supply and Treatment Engineering	04		03				3
5	15CV65X	Professional Elective 2	03		03	80	20	100	
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
0	1001100	TOTAL	22	6	24	640	160	800	26

#### **B.E. CIVIL ENGINEERING**

Professional E	lective-2	Open Electi	ve-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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#### **B.E. CIVIL ENGINEERING**

	II SEMESTI			aching rs /Week		Exan	nination		Credi
Sl. No.	Subject Code	Title	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
3.5.2.5		the second se		1I+2P	03	20	80	100	2
6	15CVL76	Environmental Engineering Laboratory		1I+2D	03	20	80	100	2
7	15CVL77	Computer Aided Detailing of Structures	the state of the state of the		0.5	100		100	2
8	15CVP78	Project Phase I + Project Seminar		3			5(0)		24
		TOTAL	18	9	21	240	560	800	24
			Professio	onal Elective 4					
rofessiona	I Elective 3		15CV751	and the second	Urban Transpo	ortation and	Planning		
5CV741	Design of B	Bridges	15CV752		Prefabricated !	Structures	and the second second		
5CV742	Ground Wa	ter & Hydraulics	15CV753		Rehabilitation	and Retrofit	ting of Structures		
CV743	Design Con	cept of Building Services	15CV754		Reinforced Ea	rth Structure	S		
CV744	Structural D	Jynamics	States and the second second	Statement and			and cominar		

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

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**B.E. CIVIL ENGINEERING** 

	Subject		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aching rs /Week		Exan	nination		Credits
Sl. No.	Subject Code	Title	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	y Oriented	3	50	50	100	2
5	15CVP85	Project Work		6	3	100	100	200	6

VIII SEMESTER

6	15CVS86	Seminar on current trends in Engineering and Technology	-	4	-	100		100	1
		TOTAL	11	10	15	310	390	700	20

Profession	al 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)

	EMESTER			ing Hours Week		Examin	ation	The state	Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT31	Engineering Mathematics –III*	04	and the second s	03	80	20	100	4
2	15EC32	Analog Electronics	04	-	03	80	20	100	4
3	15EC33	Digital Electronics	04	1994 - C	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
	Contraction of the second	TOTAL	24	6	24	640	160	800	28

\*Additional course for Lateral entry students only:

(	15MATDIP31	Additional Mathematics - I	03	03	80	 80	
100	TAX STREET, STREET, ST						

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

521	MESTER			ng Hours Jeek		Examina	tion		Credi
SI. 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	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
5	15EC46	Linear Integrated Circuits	04		03	80	20	100	4
,	15ECL47	Microprocessor Lab		1I+2P	03	80	20	100	2
	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	
			the second se				

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S1.	Subject		Teaching Hours /Week		Examinati		Credits		
No	Code	Title	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	1-12-1	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
TOT	TAL		22	06	24	640	160	800	26

Profession	nal Elective-1	Open Elec	tive - 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	Sa grant and said	The second se
15EC555	MSP430 Microcontroller		

Professional Elective: Elective relevant to chosen specialization/ branch.
 \* 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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VIS	EMESTER			ing Hours Week		Credit			
Sl. Subject No Code		Title	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
	a second s	VLSI Design	04		03	80	20	100	4
3	15EC63		04		03	80	20	100	4
4	15EC64	Computer Communication Networks	04					100	3
5	15EC65X	Professional Elective-2	03		03	80	20	100	
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

Profession	nal Elective-2	Open Elective - 2* (List offered by EC/TC Board only					
	Cellular Mobile Communication	15EC661	Data Structures Using C++				
and the particular statistics	Adaptive Signal Processing	15EC662	Power Electronics				
	Artificial Neural Networks	15EC663	Digital System Design using Verilog				
	Digital Switching Systems						
15EC655	Microelectronics						

Professional Elective: Elective relevant to chosen specialization/branch.
 \* 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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VII SEMESTER

S1. No	Subject			Teaching Hours /Week		Examination				
	Code	Title	Theory	Practic al/Dra wing	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	
	Tel-I-re- Li	TOTAL	18	09	21	240	560	800	24	

Profession	al 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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/111	SEMESTER			ing Hours Week		Credits			
SI. No	Subject Code	Title	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	Industr	y 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					

 15EC835
 Network and Cyber Security

 Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk

 Srirangapatna Taluk

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



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

C1				ing Hours Week		Exami	ination	1	Credits
Sl. No	and the second se	Title	Theory	Practical/ Drawing	Duration	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	K	03	80	20	100	4
3	15CS33	Data Structures and Applications	04	< 6	03	80	20	100	4
4	15C834	Computer Organization	04		03	80	20	100	4
5	15CS35	Unix and Shell Programming	04	and the second second	03	80	20	100	4
6	15CS36	Discrete Mathematical Structures	04	- 7	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

III SEMESTER

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



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

IV	SEMESTER		Teaching H	ours /Week	17		amination	17	Credit
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practica 1 Marks	I.A. Marks	Total Marks	
			04		03	80	20	100	4
1	15MAT41	Engineering Mathematics - IV	04	A				100	4
2	15CS 42	Software Engineering	04		03	80	20	100	
-	1505 42		04	A. A	03	80	20	100	4
3	15CS43	Design and Analysis of Algorithms	04	1		Y		100	4
4	15CS 44	Microprocessors and Microcontrollers	04		03	80	20	100	
	1505 11		04		03	80	20	100	4
5	15CS45	Object Oriented Concepts	8				20	100	4
6	15CS46	Data Communication	04		03	80	20	100	
		Design and Analysis of Algorithm	1	1I+2P	03	80	20	100	2
7	15CSL47	Laboratory		1 Carl	02	80	20	100	2
8	15CSL48	Microprocessors Laboratory	<u> </u>	1I+2P	03	80			20
		TOTAL	24	06	24	640	160	800	28

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

precent\_ 2



1:40

**V SEMESTER** 

**B.E. Information Science & Engineering** 

SI.	Subject	and the second of the second for the second s	and the second	ing Hours Veek		>	100		
No	Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	Credits
1	15C851	Management and Entrepreneurship for IT industry	04		03	80	20	100	4
2	15C852	Computer Networks	04	A	03	80	20	100	4
3	15CS53	Database Management System	04	K - O	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	1	03	80	20	100	3
7	15CSL57	Computer Network Laboratory	1	1I+2P	03	80	20	100	2
8	15CSL58	DBMS Laboratory with mini project		/1I+2P	03	80	20	100	2
TOT	ΓAL		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					

 IS554
 Programming Languages

 1. Professional Elective: Electives relevant to choosen specialization / branch
 Maharaja Institute OP rechnology Mysore Belawadi, Maguvanahalli Post Srirangapatna Taluk

 2. Open Elective: Electives from other technical and/or emerging subject areas (Announced separately) Mandya District - 571477



**B.E. Information Science & Engineering** 

VI SEN	IESTER		Teaching H	ours /Week		and the second s	mination		Credit
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	4
			04		03	80	20	100	
1	15CS61	Cryptography, Network Security and Cyber Law		-	02	80	20	100	4
2	15IS62	File Structures	04		03	00	20		4
2	151502		04	A	03	80	20	100	4
3	151863	Software Testing		A	02	80	20	100	4
4	15CS64	Operating Systems	04	( ()	03	00	20		2
5	15CS/IS65x		03		03	80	20	100	3
5	1505/15054	Professional Elective 2	() and ()	all hard	02	80	20	100	3
6	15CS/IS66x	Open Elective 2	03		03	00	20		1. 19
7	15ISL67	Software Testing Laboratory		1I+2P	03	80	20	100	2
		Software resting Laboratory		1I+2P	03	80	20	100	2
8	15ISL68	File Structures Laboratory with mini project		11.21	0.5	00			
	Sale Land	TOTAL	22	06	24	640	160	800	26

	The second
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)

Geeensi



B.E. Computer Science & Engineering

V	II SEMESTI	ER	Teachi	ng Hours		Exam	ination	4	Credits
51. No	Subject Code	Title	/V Theory	Veek Practical/ Drawing	Duration		Theory/ Practical Marks	Total Marks	
1	15CS71	Web Technology and its applications	04		03	20	80	100	4
1			04	6	03	20	80	100	4
2	15CS72	Advanced Computer Architectures			* <u>*</u>	20	80	100	4
3	15CS73	Machine Learning	04	Jor - D	03	20		100	3
4	15CS74x	Professional Elective 3	03	- P	03	20	80	100	5
7			03		03	20	80	100	3
5	15CS75x	Professional Elective 4	100	IL OD	03	20	80	100	2
6	15CSL76	Machine Learning Laboratory		1I+2P	03		for the second	100	2
7	15CSL77	Web Technology Laboratory with mini project		1I+2P	03	20	80	100	
		Project Phase 1 + Seminar		<u>}</u>		100		100	2
8	15CSP78		18	6	21	240	560	800	24
		TOTAL	No.1		-				
				Professi	onal Elective	: 4	M. PHILE		
Pro	fessional Elec	tive 3		15CS75	1 5	Soft and Evolution	ary Computin	ng	
150	CS741	Natural Language Processing		15CS75	2 (	Computer Vision a		and the second	
210-0-	CS742	Cloud Computing and its Applications		15CS75	3 I	Digital Image Proc	cessing	Same and Street Street	
150	CS743	Information and Network Security		15CS75-		Storage Area Netw	vorks		
15C	CS744	Unix System Programming	n / branch						

15CS744 1. Professional Elective: Electives relevant to choosen specialization / branch

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

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



B.E. Computer Science & Engineering

VIII	SEMESTER	
	NO ADDITION A ADDITI	

15CS834

			and the second	ing Hours Veek		Exam	ination		Credits
Sl. No	and the second se	Title	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	1	3	20	80	100	3
4	15CS84	Internship / Professional Practice	Industr	y 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
				No.				west works 20	a special di
Profe	essional Elect	ive 5		19					11.2
15CS		High Performance Computing	Find						
	\$832	User Interface Design	VA						
ISCS	833	Network management	X						

2

System Modeling and Simulation

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

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#### B.E. Mechanical Engineering

#### IV SEMESTER

			Tead	ching Hours	/Week		Exam	ination		Credit
SI. N o	Subject Code	Title	Lectur e	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							
	15MEL47A	Materials Testing Lab/								
7	/ 15MEL47B	Mechanical Measurements and Metrology Lab	1		2	03	80	20	100	02
8	15MEL48A	Foundry and Forging Lab								
	15MEL48B	Machine Shop/	1		2	03	80	20	100	02
		TOTAL	19/21	06	08/04		640	160	800	27

Maharaja Institute de Rechnology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



B.E.	Mecl	hanical	Engin	eering
A A	1	A SANA & SAN	and a second	

V	SF	M	ES	<b>FE</b>	R
	NO 84	12.2.0	Market .		A. A.

			Tea	aching Hou	rs /Week		Examina	ation		Credits
SI. No		Title	Lecture	Tutoria	l 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
6	15MEL57	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 Electiv	/e-I					
	15ME551	5ME551 Refrigeration and Air-conditioning	1	5ME561	Optimization Te	chniques				
	15ME552		1	15ME562	Energy and Envi	ironment				
	15ME553			15ME563	Automation and	Robotics				
	15ME554			15ME564	Project Manager	met				

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.

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



#### **B.E. Mechanical Engineering**

				Teac	hing Hours	/Week		Examir	ation		Credits
1. Io	Subject Code	Title	I	ecture	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
Pr	ofessional El	lective-II	Open Ele	ctive-II							
15	5ME651	Computational Fluid Dynamics	15ME661	1 Ene	rgy Auditing						
15		Mechanics of Composite Materials	15ME662	2 Indu	ustrial Safety						
1.	5ME653	Metal Forming	15ME663	3 Mai	intenance Eng	gineering					
1	5ME654	Tool Design	15ME664	4 Tot	al Quality Ma	anagement					
1	5ME655	Automobile Engineering									

#### **VI SEMESTER**

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.

Professional Elective: Elective relevant to chosen specialization/ branch
 OpenElective: Electives from other technical and/or emerging subject areas.

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



**B.E. Mechanical Engineering** 

#### VIII SEMESTER

SI. No			Teach	ning Hours	/Week		Credits			
	Subject Code	Title	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	In	dustry Orie	nted	03	50	50	100	2
5	15ME85	Project Phase – II	•	6	-	03	100	100	200	6
6	15MES86		•	4	-	-	-	100	100	1
		TOTAL	10	12	-		390	310	700	20

Professional Elective-V15ME831Cryogenics15ME832Experimental Stress Analysis15ME833Theory of Plasticity15ME834Green Manufacturing	
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 6<sup>th</sup> & 7<sup>th</sup> semester vacation or 7<sup>th</sup> & 8<sup>th</sup> semester vacation.

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



**REGULATIONS GOVERNING** 

THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)

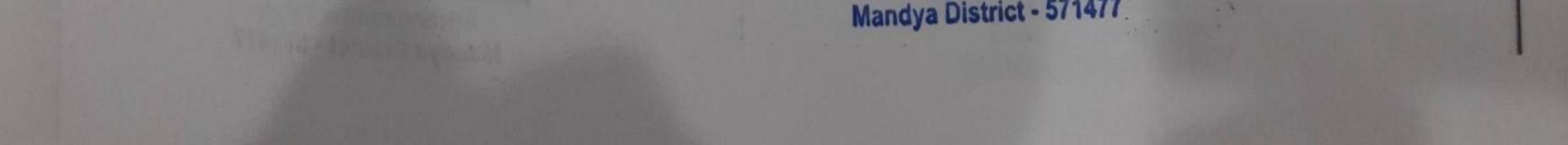
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

Effective from the academic year 2017-18

#### Annexure -1

			choice Based C	redit System (	CBCS)		_				-
			SEMESTER B.E./B	Tech. (PHYSICS	Ten	blog		Framina	lan	T	-
SI. No	Course Code	Course Title	Traching Department	Board	Theory	Practical A	Duration in bours	SEE Marks		Total Marks	Credits
1	17MAT11	Engineering Mathematics	Mathematics	Basic Science	04		03	60	40	100	4
	A DECEMBER OF THE OWNER	-I Environmenting Phanics	Physics	Basic Science	04		03	60	40	100	4
2	17PHY12 17CTV13	Engineering Physics 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	17ELEI7	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	A REAL PROPERTY OF A DESCRIPTION	Instruction Practical	03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENGI8	Language - English (Audit Course)	Humanities	55	01		-	-	-	-	
		( ) total country	5 C	TOTAL	the second s	al: 06 hours	21	420	280	700	24
		Ш	SEMESTER B.E./B	Tech. (CHEMIS	TRY GR	OUP)		-	-	-	T
1	17MAT21	Engineering Mathematics	Mathematics	Basic Science	04		03	60	40	100	1
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04		03	60	40	100	
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04		03	60	40	100	0 4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	a la secondada de la secondada	r Instruction or Practice	03	60	40	10	0
5	17ELN25	Basic Electronics	ECE/EEE/TC/E and L	E and C Engineering	04		03	60	40	10	x
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ar Tutorial ar Practical	03	60	40	10	00
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	Contract of the second second	ar Tutorial or Practical	03	61	40	1	00
8	1707728	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	OITu		-	3	0 20	0	50
	1	- And and a state of the state		1428 - 19 H 19 19 19 19 19 19 19 19 19 19 19 19 19	Theo	ry:21 hours	2	1500 50	50 30	0 7	150

Maharaja Institute of Technology Mysore 21Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



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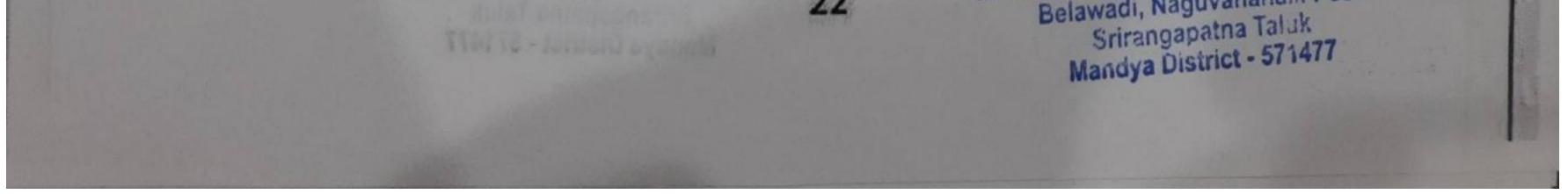
**REGULATIONS GOVERNING** THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) Effective from the academic year 2017-18

1			Scheme of Teaching Choice Based	g and Examinati Credit System (	Contraction of the local division of the loc	118			-		
t		1	SEMESTER B.E./	the second state on the second state of the se	A case of the second	UP)	-			-	-
IPHILZ/					Teaching Hours /Week			Exan	nollani	_	
		te Course Title	Teaching	Board	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
	1 17MATH	Engineering Mathematics -I	Mathematics	Basic Science	04		03	60	40	100	t
	the second s	Engineering Chemistry	Chemistry	Basic Science	04	-	03	60	40	100	T
	3 17PCD13	Programming in C and Data Structures	Anu	Computer Science and Engineering	04		03	60	40	100	
	17CED14	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour 04Hour	Instruction Practice	03	60	40	100	
10	ITELNIT	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04	2	03	60	40	100	
6	17CPL16	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour 02Hour I	AP BOOLES & MA	03	60	40	100	
7	17CHEL17	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour 7 02Hour 1	a shirt of the state of the	03	60	40	100	
8	170118	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01HourT	utorial	2	30	20	50	
				TOTAL	Theory: Practical	21 hours l: 08 hours	21	450	300	750	
				T. A OUVEIO	CROID		- A		19		
_	Lancama		SEMESTER B.E./	Basic Science	O4	in the second	03	60	40	100	T
-		Engineering Mathematics -II Engineering Physics	Physics	Basic Science	04		03	60	40	100	t
	Constant Street Constant	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	-	03	60	40	100	T
	17EME24	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04		03	60	40	100	ļ
	17ELE25	Basic Electrical Engineering	E and E Engineering	E and E Engincering	04	-	03	60	40	100	1
	17WSL26	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02-Hour		03	60	40	100	
I	17PHYL27	Engineering Physics Laboratory	Physics	Basic Science	01-Hour 02-Hour	Instruction Practical	03	60.	40	100	+
I	17ENG28	Language - English (Audit Course)	Humanities	77	01				1	1	-
				TOTAL	Theory:2	1 hours : 06 hours	21	420	280	700	

#### Annexure -1

Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post

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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

			B.E./B.Tech		-					100	
III S	EMESTER					11 AU. 1	1	Examin	ation		
					Teachin	g Hours /Week		P.Xamin			5
SL No	Course Code	Course	Course Title	Teaching	Theory	Practical/ Drawing	Duration is hours	SEE Mark	CIE Marks	Total Marks	Credits
1	17MAT31	Core Course	Engineering Mathematics-III		04	-	03	60	40	100	4
2	17XX32	Core Course		1	04	-	03	60	40	100	4
3	17XX33	Core Course		and and a	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			03	() <del>-4</del>	03	60	40	100	3
7	17XXL37	Laboratory			01-Hour la 02-Hour P	A425	03	60	40	100	2
8	17XXL38	Laboratory			01-Hour li 02-Hour P		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	0
		turner and	T	OTAL	Theory:2 Practical:		25	510	340	850	2
Fou Kan Cons	d discipline of study. ndation Course: The nada/Constitution o stitution of India, Prof it Course:	courses based up f India, Professio fessional Ethics ar	to be compulsorily studied on the content that leads to onal Ethics and Human H od Human Rights in cycle lidates) have to register for	by a stu o Knowl lights: 5 based co	edge enhand 0 % of the p ancept durin	re requirement to c mement. programs of the Inc g III and IV semes	stitution ha	e require	ment of	a progra	-
	17MATDIP31	A 466	onal Mathamatics - I		03		03	60	4	60	

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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)

TV	SEMESTER										-
11.	JENESIEN	1		1	Teach	ing Hours /Week	1 day	Exam	ination	-	1
SI. No	Course Code	Course	Course Title	Teaching	8	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	14	03	60	40	100	4
4	17XX44	Core Course		1	04	( <b>7</b> )	03	60	40	100	4
5	17XX45	Core Course		1	04	14	03	60	40	100	4
6	17XX46	Foundation Course			03		03	60	40	100	3
7	17XXL47	Laboratory			01-Hour 1 02-Hour I	Instruction Practical	03	60	40	100	2
8	17XXL48	Laboratory			01-Hour I 02-Hour H	Instruction 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
-			T		Theory:24 Practical:		25	510	340	850	21
said ound anns onstit adit (	discipline of study. lation Course: The ide/Constitution of ution of India, Profe Course:	courses based upo India, Profession essional Ethics and		OTAL oy a studi Knowled ghts: 50 ased con	Practical: ent as a con- lge enhance % of the pro- cept during	06 hours e requirement to com ement, rograms of the Enstitu III and IV semesters	iplete the	requirer	ment of a	program	
1	7MATDIP41	Addition	al Mathamatics - II		03		03	60	-	60	14
-			sorily studied by all latera		16		ger al car	-	1. COR 2	X	





**REGULATIONS GOVERNING** THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

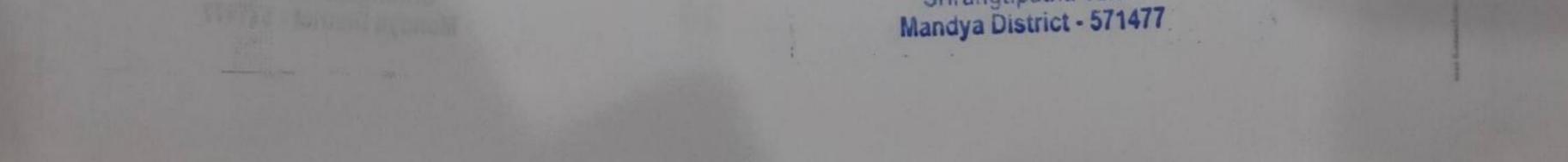
Effective from the academic year 2017-18

Annexure -1 (page -5)

			B.E./B.Tech_		-	-				-		-
VSE	MESTER					Teachle	g Hours /Week	T	Exami	nation		-
SI. No	Course Code	Course	Course Title	61	Teaching Department	Leach	Practical/ Drawing	Duration in bours	SEE Marks	CIE Marks	Total Marks	Credits
1	17XX51	Core Course	Management and Entrepreneurship Excluding CSE, ISE EV Programs. (The course must be r to Management and Entrepreneurship. Ho the title and syllabus of can be as per the prog- requirement).	related owever, content		04		03	60	40	100	4
2	17XX52	Core Course		-		04	<u>4</u>	03	60	40	100	
3	17XX53	Core Course			1	04		03	60 60	40	100	100
4	17XX54	Core Course	and the search of		1	04		03	Contraction of the	63	19226	
5	17XX55X	Professional				03	*	03	60	40	100	
6	17XX56Y	Open Elective				03		03	60	40	100	
7	17XXL57	Laboratory				01-Hour la 02-Hour P	ractical	03	60	40	100	1999
8	17XXL58	Laboratory			1	01-Hour la 02-Hour P	KIDEN (CN TROPE) MAT	03	60	40	100	12
	A State of the		1	т	OTAL	Theory:22 Practical:		24	480	320	100	2
			-	There are a second	lectives	- The second	the set of the set					
	De	ofessional Elective			~	Yanad har the	Open Elective Department of					
and the second second	es under 17XX55X		Tilla C	Courses a Code 17X	Inder	i i i i i i i i i i i i i i i i i i i		Course T	tle	a dan da		
	XX551		and the second s	7XX56	C. C. B. C. Martin						and and	
				7XX562	Section 1	-						-
	XX552	177-52 "			1000 m 1000	Careta and		Alle				-
17	XX553	and annual	<u>2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</u>	7XX563	and a state	1	n Agazzaria contante da la			-		_
to Prove	XX554	all all and all	Prost in the second second	7XX564	Strate - Alde		Sand Street of Street			11		
of an o n n Registr L. Con	pen elective is The candida The candida The syllabus ration to elective e subject: This id discipline of s	not allowed, if; te has no pre – req te has studied simil content of open el es shall be docume is the course, which study.	in electives offered by a ulsite knowledge. ler content course durin lective is similar to that inted under the guidance in is to be compulsorily ant to chosen specializa	g previou of Depar e of Prog studied b	as seme tmental ramme ( )y a stud	sters. core course Coordinator	(s) or to be studied and Adviser.	professio	nal elect	ivc(s).		

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Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk



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**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)

		VISVESVA	Schem	CHNOLOGI e of Teaching and Choice Based Cred	T.Y.BIUU	LAUON PON	(ATTACK A 51)	BELA	GAV	•		
			B.E./B.	Tech	a singer	1.1.8					-	
VISI	MESTER			Talling - warmen		Tarching	Hours /Week	T	Exami	nation		
SI. No	Course Code	Course	Cou	rse Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17XX61	Core Course	Excluding CSE Programs. (The course mu Management an Entrepreneurshi title and syllabu	st be related to		04		03	60	40	100	4
2	17XX62	Core Course	a superior and and and		WTH NO WY	04		03	60	40	100	4
3	17XX63	Core Course	- mar 10 ments			04		03	60	40	100	4
4	17XX54	Core Course		and the second		04		03	60	40	100	4
5	17XX65X	Professional Elective				03		03	60	40	100	3
6	17XX66Y	Open Elective	Contraction of the second	and a strength of the strength of the		03	1	03	60	40	100	3
7	17XXL67	Laboratory	And the second second			01-Hour Ir 02-Hour P	The state of the second se	03	60	40	100	2
8	17XXL68	Laboratory				01-Hour Ir 02-Hour P		03	60	40	100	2
				T	OTAL	Theory:22 Practical:		24	450	320	300	26
				Elect	lives	A starting and	and a second					
	P	rofessional Electi	TE		Offere	d by the De	Open Elective					
and the state of the	es mader 17XX65X	Cou	rse Title	Courses unde Code 17XX64	er			Course Ti	tle			
17.	XX651		Contraction of the second	17XX661		and an american						
17:	XX652	tentite and the second	and a state of the second	17XX662	anti- 1	all a start	ations hours		-	-	-1	
17	XX653		1	17XX663	1	3	Alles - A Charter					
17	XX654		A STATE STATE STATE	17XX664	and the second second		and the second to	the state of the	A.			

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 similer 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.

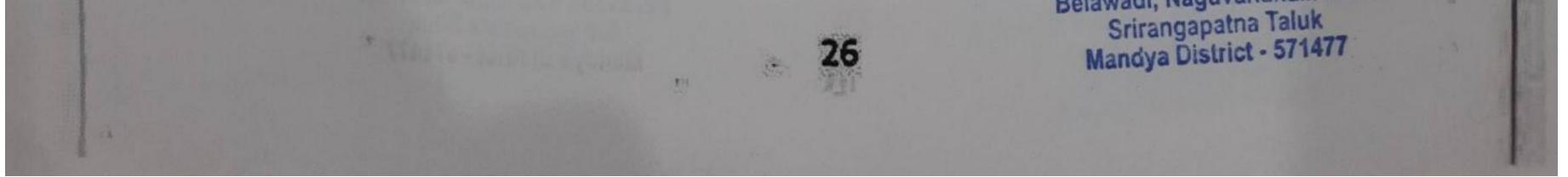
1. Core subject: This is the course, which is to be computsorily studied by a student as a core requirement to complete the requirement of a programme In a said discipline of study.

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

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

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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 (page -7)

			RAYA TECHNO Scheme of Teach Choice Bas	aing and Ex	amination 2	2017-2018	DELA	IGA	VI.		
			B.E./B.Tech								
VII S	EMESTER		San and a start of the		1						_
					Teaching	g Hours /Week		Exami	astion	-	
SL. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17XX71	Core Course			04	44 ()	03	60	40	100	4
2	17XX72	Core Course			04		03	60	40	100	4
3	17XX73	Core Course		_	04		03	60	40	100	4
4	17XX74 X	Professional Elective			03	.•••3 <i>i</i> .	03	60	40	100	3
5	17XX75Y	Professional Elective			03		03	60	40	100	3
6	17XXL76	Laboratory			01-Hour In 02-Hour Pr	A CONTRACTOR OF	03	60	40	100	2
7	17XXL77	Laboratory			01-Hour In 02-Hour Pr	Charles and Charle	03	60	40	100	2
8	17XXP78	Core Course	Project Phase - I and Project seminar			03		7	100	100	2
		anne anne a		TOTAL	Theory:18 Practical a hours	hours nd Project: 09	21	420	380	800	2
	Calente avec.		Chieran - Chieran	Electives		in the state of the					
-		Professional El	ective	1	an a	Profession	al Electiv	e		200	
	es under 17XX74X	(	Course Title	Courses Code 17	AND CONTRACTOR		Cours	2 1802			
-	XX741	and the second states		17XX7	51						
17	XX742			17XX7	52				373N933		
17	XX743			17XX7	53						
17	XX744			17XX7	54	All and a second se	a company and	and the second			

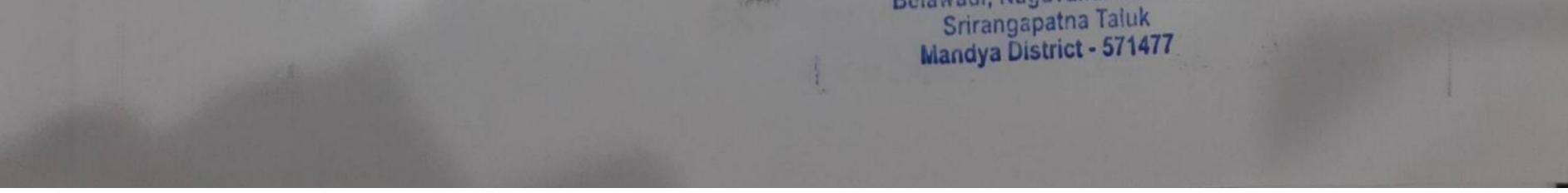
1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

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

3. 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.

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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

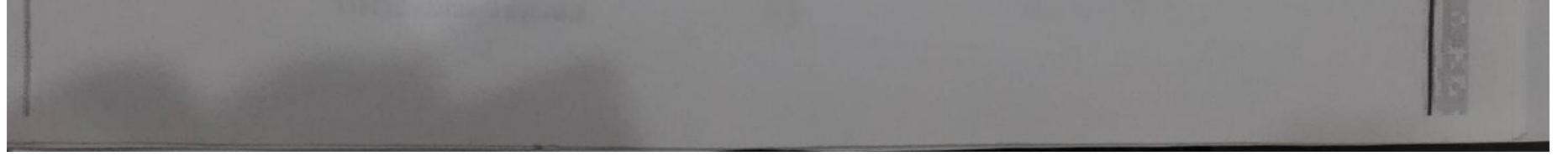
Annexure -1 (page -8)

		VISVESV	ARAYA TECHNOL Scheme of Teachin Choice Bases	ig and E)	NUDDAUOU	POLL BOLD	BEL	AGA	VI		
	Ser. Co		B.E./B.Tech	_	-						
VIII	SEMESTER	-	1	1	Teachin	g Hours /Week		Exami	ination	_	
SL No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	170201	Core Course			04	2427	03	60	40	100	4
-	17XX81	Core Course			04		03	60	40	100	4
2	17XX82					**	01	60	40	100	3
3	17XX83X	Professional Elective		_	03	(dechar	03	00	+0	183	-
4	17XX84	Core Course	Internship/ Professional Practice	1	Working h of Interns	ours of the place ship	03	50	50	100	2

5	17VVD05	Core Course	Project work Phase -II			06	03	100	100	200	0
2	17XXP85	Core Course	Technical Seminar			04	4	-	100	100	1
6	17XXS86	Cole Course		TAL	Theory:11 Project and hours	hours d Seminar: 10	15	390	310 ment of a	700	20
	Alexander and		Profession	nal El	ectives					1-12 m	
	es under 17XX83X				Course Title						
17	XX831						-			-1. t	
17	XX832	and the second									
17	XX833					- manife the		-			-
17	XX834			Tere .		And the second second				Alternation of the	
10.4 531	id discipline of	f study.	hich is to be compulsorily studied by levant to chosen specialization/branc to be completed between the (VI and V	j.							

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#### **B.E: CIVIL ENGINEERING**

m	SEMESTER		Teaching	Teaching	Hours /Week		Exami	nation		Credits
SI. No.	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics	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	Prese	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 Ir 02-Hour P		03	60	40	100	2
8	17CVL38	Basic Surveying Practice	Civil Engg.	01-Hour Ir 02-Hour P		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		1000	al: 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:

III SEMESTER

(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	
i) L	anguage English (A	udit Course) be compulsorily studied by	y all lateral entry stude	nts (except B.S	c candidates)	hun	~		
					Maharaja Institute Belawadi, Na	of Technolog	y Mysore		
				4	Belawadi, Na Sriranga Mandya D	guvanahalli k apatna Taluk	7051		7
					Mandya D	istrict - 57147			



#### **B.E: CIVIL ENGINEERING**

IV SE	MESTER		Teaching	Teaching He	ours /Week		Exami	ination	A STATE MARCHINE	Credits
SI. No.	Course Code	Title	Department	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	AR I ITH	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 Instru 02-Hour Pract		03	60	40	100	2
8	17CVL48	Engineering Geology Laboratory	Civil Engg.	01-Hour Instru 02-Hour Pract		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: 24 Practical: 06		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	
(ii) Lan	guage English (Audit	Course) be compulsorily studied by all late	ral entry students (	except B.Sc cand	idates)	Maharaja l	Princip nstitution	eghoology	yspre	
				5		Belay	wadi, Naguvi Srirangapati	anahalli Post na Taluk ct - 571477	- Suite	
	4					IV.	anuya Distri			



#### **B.E: CIVIL ENGINEERING**

	MESTER		Teaching Department	Teaching	Hours /Week		Exami	nation		Credits
Sl. No.	Course Code	Title		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 I 02-Hour P		03	60	40	100	2
8	17CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	01-Hour I 02-Hour F	nstruction Practical	03	60	40	100	2
			TOTAL		22hours : 06 hours	24	480	320	800	26

#### **V SEMESTER**

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: Princ

The calculate 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 electrices shall be documented under the guidance of Programme Coordinator and Adviser.
 Maharaja Institute of Technology Maharaja Institute of Technology Maharaja Institute of Technology Maharaja Institute of Technology Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.



#### **B.E: CIVIL ENGINEERING**

SI. No.	Course	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
	Code			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 I 02-Hour I	nstruction Practical	03	60	40	100	2
			TOTAL	Theory:2 Practical	2hours : 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	and the second
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.

VISEMESTED

· 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.

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk (s). 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**

	MESTER		Teaching	Teaching	Hours /Week		Examina	ation		Credits
Sl. No.	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	٢
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	A14.	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 Ir 02-Hour P		03	60	40	100	2
7	17CVL77	Computer Aided Detailing of Structures	Civil Engg.	01-Hour In 02-Hour P		03	60	40	100	2
8	17CVP78	Project Work Phase-I + Project work Seminar	Civil Engg.		03			100	100	2
		TOTAL		Theory:18 Practical 09 hours	8 hours and Project:	21	420	380	800	24

#### VII SEMESTER

Professional	Flective-3	Professiona	al Elective-4	
17CV741	Design of Bridges	17CV751	Urban Transportation and Planning	- Accellari
17CV742	Ground Water & Hydraulics	17CV752	Prefabricated Structures	A Technology Mysore
17CV743	Design Concept of Building Services	17CV753	Prefabricated Structures           Rehabilitation and Retrofitting of Structures	Belawadi, Naguvanahalli Post
17CV744	Structural Dynamics	17CV754	Reinforced Earth Structures	Srirangapatna Taluk

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**

		the second s	Teaching	Teaching	g Hours /Week		Examin	ation		Credits
SI. No.	Course Code	Title	Department	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

#### VIII SEMESTER

		TOTAL		Theory: D Project a 10 hours	11 hours nd Seminar:	15	330	370	700	20
6	17CVS86	Seminar on current trends in Engineering and Technology	Civil Engg.	-	4		•	100	100	1
5	17CVP85	Project Work-II	Civil Engg.		6	3	100	100	200	6
4	17CV84	Internship/ Professional Practice	Civil Engg.	Indus	try Oriented	3	- 50	50	100	2
3	17CV83X	Professional Elective-5	Civil Engg.	3		3	60	40	100	3
	the second se									

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

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



## SCHEME OF TEACHING AND EXAMINATION

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

111	SEMESTER		Teaching	Teaching H	Iours /Week		Examir	nation		Credits
SI. No	Course Code	Title	Department	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	- PERSON	03	60	40	100	1 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 In 02-Hour Pr		03	60	40	100	2
8	17ECL38	Digital Electronics Lab	EC	01-Hour In 02-Hour Pr		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	0
	•	TOTAL		and the second	y: 24hours al: 06 hours	25	510	340	850	2

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	A	60	
(ii) La	nguage English (Au	dit Course) be compulsorily studied by al	l lateral entry stude	ents (except B	Sc candidates)	M	Belawadi, Srira	Principal ute of Techno Naguvanaha ingapatna Ta a District - 5	luk	



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

V SE	MESTER			Teaching	Hours /Week		Examina	tion		Credits
SI. No	Course Code	Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
140	C. S.			04	0	03	60	40	100	4
1	17MAT41	Engineering Mathematics -IV*	Maths	04	and the second second	02	60	40	100	4
2	17EC42	Signals and Systems	EC	04		03			100	4
3	17EC43	Control Systems	EC	04	all and the	03	60	40	100	
		Principles of Communication	EC	04 .		03	60	40	100	4
4	17EC44	Systems				03	60	40	100	4
5	17EC45	Linear Integrated Circuits	EC	04				40	100	3
6	17EC46	Microprocessor	EC	03		03	60	40	100	
7	17ECL47	Microprocessor Lab	EC	01-Hour Ins 02-Hour Pra		03	60	40	100	2
8	17ECL48	Linear ICs and Communication Lab	EC	01-Hour Ins 02-Hour Pra		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human	Humanities	01		01	30	20	50	01
		TOTAL	Contraction of the second	Theory: 2 Practical: 0		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.

(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	Maharaja Institute of Teccionalialli Post
(ii) La		dit Course) be compulsorily studied by a	Il lateral entry studer	nts (except B.Sc ca	ndidates)	Srirangapatna - 571477 Mandya District - 571477

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)



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## **B.E.: Electronics & Communication Engineering**

SI. No	Course Code	Title	Teaching Department	Teaching /Week	Hours	Examination				Credits
1	17000			Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17ES51	Management and Entrepreneurship Development	EC	04		03	(0)			
2	17EC52	Digital Signal Processing	and the second	04		03	60	40	100	4
3	175052		EC	04		03	60	40	100	4
5	17EC53	Verilog HDL	EC	04		03	60	40	100	1
4	17EC54	Information Theory & Coding	EC	04		03	60		COLUMN STR	4
5	17EC55X	Professional Elective-1		04		03	00	40	100	4
_		Trofessional 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 I 02-Hour F		03	60	40	100	2
8	17ECL58	HDL Lab	EC	01-Hour I 02-Hour F		03	60	40	100	2
		TOTAL		Theory: Practical:	22hours 06 hours	24	480	320	800	26

Professiona	al Elective-1	Open Elect	ive - 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.

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



<b>B.E.:</b> Electronics	&	Communication	Engineering
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VI S	EMESTER		Teaching Department		ng Hours /eek			Credit		
No	Code	Title		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 In 02-Hour P		03	60	40	100	2
8	17ECL68	Computer Networks Lab	EC	01-Hour I 02-Hour P		03	60	40	100	2
•		TOTAL		Theory: Practical:	22hours 06 hours	24	480	320	800	26

Profession	nal Elective-2	Open Electiv	re - 2*** (List offered by EC/TC Board only)
	Cellular Mobile Communication	17EC661	Data Structures Using C++
	Adaptive Signal Processing	17EC662	Power Electronics (not for E&C students)
	Artificial Neural Networks	17EC663	Digital System Design using Verilog
and the second second second second second	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 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).
 Principal
 Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



## VII SEMESTER

## **B.E.: Electronics & Communication Engineering**

SI.	Course Code		Teaching Department		ng Hours Veek		Examina	ntion		Credits
No	course coue	Title		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 02-Hour	Instruction Practical	03	60	40	100	2
7	17ECL77	VLSI Lab	EC		Instruction Practical	03	60	40	100	2
8	17ECP78	Project Work Phase-I + Project work Seminar	EC		03		-	100	100	2
		TOTAL		Practica	18 hours 11 and 09 hours	21	420	380	800	24

Professiona	l Elective-3	Professional	
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
17EC744 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 Maharaja Institute of Technology Mysore 7 Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477

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## **B.E.: Electronics & Communication Engineering**

VIII	I SEMESTEI	<	Teaching Department	and the second se	ing Hours Veek		Examin	ation		Credit
SI. No	Course Code	Title		Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EC81	and a set of the set o	EC	4		3	60	40	100	4
1	TILCOT	Wireless Cellular and LTE 4G Broadband				2	60	40	100	4
2	17EC82	Fiber Optics & Networks	EC	4	-	3	00	40		in Comile
		Fiber Opties & Retworks		2		3	60	40	100	3
3	17EC83X	Professional Elective-5	EC	3	-	5	00			
				Industr	y Oriented	3	50	50	100	2
4	17EC84	Internship/Professional Practice	EC	Industr	y onenice					
			EC	-	6	3	100	100	200	6
5	17ECP85	Project Work	EC							
5	17ECS86		EC	-	4	-	-	100	100	. 1
	1710300	Seminar	20	the second						
		TOTAL		Project a	11 hours and : 10 hours	15	330	370	700	20

Profession	al 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 VII teori Technology M Maharaja Instituteori Technology M Belawadi, Naguvanahalli Pos Sritangapatna Taluk Mandya District - 571477

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m	SEMESTER		Teaching	Teaching I	Hours /Week		Exami	nation	and the second s	Credits
SI. No	Course Code	Title	Department	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	The second	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	and the second	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 Ins 02-Hour Pra		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour Ins 02-Hour Pra		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			24hours al: 06 hours	25	510	340	850	28

## **B.E:** Computer Science and Engineering

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:

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(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	Action 1 60 .	
(ii) L	anguage English (A	udit Course) be compulsorily studied by	all lateral entry stude	nts (except B.	Sc candidates)	M	aharaja Instit Belawadi	i, Naguvanahalli Post	
	1.2			1			Mandy	ya District - 571477	



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

VSE	MESTER			The Line II	Wook		Exami	ination		Cred
SI. No	Course Code	Title	Teaching Department	Teaching Ho Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
NO	The second second				Dining	03	60	40	100	4
1	17MAT41	Engineering Mathematics - IV	Maths	04				10	100	3
2	17CS42	Object Oriented Concepts	CS/IS	03		03	60	40		-
		Design and Analysis of Algorithms	CS/IS	04		03	60	40	100	4
3	17CS43		CS/IS	04		03	60	40	100	4
4	17CS44	Microprocessors and Microcontrollers		04				40	100	4
5	17CS45	Software Engineering	CS/IS	04		03	60			1
6	17CS46	Data Communication	CS/IS	04		03	60	40	100	4
7	17CSL47	Design and Analysis of Algorithm Laboratory	CS/IS	01-Hour Instr 02-Hour Prac		03	60	40	100	2
8	17CSL48	Microprocessors Laboratory	CS/IS	01-Hour Inst 02-Hour Prac		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: 24 Practical: 00		25	510	340	850	28

## **B.E:** Computer Science and Engineering

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	
Lan	guage English (Audit	Course) be compulsorily studied by all la	iteral entry students (	except B.Sc candid	ates)		h	· l.	-
, Lui						i sia las	Pringinel stitute of Tech	inology Mysore	
				-		Maharaja ma Belaw	adi, Naguvan	inology Mysore ahalli Post Taluk	
				2		Ma	ndya District	Taluk - 571477 -	



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SI.	IoCourse Code117CS51	Title	Teaching Department	Teaching	Hours /Week			Credits		
No				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	S The second	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	STATE OF	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 In 02-Hour P		03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour In 02-Hour P		03	60	40	100	2
			TOTAL	Theory: Practical:		24	480	320	800	26

#### V SEMESTER

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## **B.E:** Computer Science and Engineering

Professiona	al Elective-1	Open Elect	ive – 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)

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\*\*\*Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Belawadi, Naguvanahalli Post Selection of an open elective is not allowed, if: Selection of an open elective is not allowed, if: Srirangapatna Taluk Mandya District - 571477

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.



<u>VIS</u>	Course		Teaching Department	and the second second	ng Hours Veek			Credits		
No	Code	Title		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 In 02-Hour P		03	60	40	100	2
8	17CSL68	Computer Graphics Laboratory with mini project	CS/IS	01-Hour In 02-Hour P		03	60	40	100	2
		[ project	TOTAL	Theory:22 Practical:		24	480	320	800	26

## **B.E:** Computer Science and Engineering

Professiona	l Elective-2	Open Electiv	re - 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
1705054	Distributed computing system	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: Maharaja Institu

· The candidate has no pre - requisite knowledge.

• 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. A



## **B.E:** Computer Science and Engineering

SI.		The second s	Teaching	Teaching	Hours /Week		Examin	ation		Credits	
No	Course Code	Title	Department	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	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	- <b>г</b> 3	
5	17CS75x	Professional Elective 4	CS/IS	03		03	60	40	100	3	
6	17CSL76	Machine Learning Laboratory	CS/IS	01-Hour II 02-Hour P		03	60	40	100	2	
7	17CSL77	Web Technology Laboratory with mini project	CS/IS	01-Hour II 02-Hour P		03	60	40	100	2	
8	17CSP78	Project Work Phase-I + Project work Seminar	CS/IS		03			100	100	2	
		TOTAL		Theory:18 Practical 09 hours	8 hours and Project:	21	420	380	800	24	

#### VII SEMESTER

Profession	al 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
			All of

 17CS744
 Unix System Programming
 17CS744
 Unix System Programming
 17CS744
 Storage Filter Filte



VII	I SEMESTE	R	Teaching	Teaching	g Hours /Week		Examin	ation		Credits
Sl. No	Course Code	Title	Department	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	Indust	try Oriented	3	50	50	100	2
5	17CSP85	Project Work-II	CS/IS	-	6	3	100	100	200	6
5	17CSS86	Seminar	CS/IS	-	4		-	100	100	1
		TOTAL		Theory: D Project a 10 hours	11 hours nd Seminar:	15	330	370	700	20

## **B.E:** Computer Science and Engineering

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

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1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) Belawadi, Naguvanahali Post Maharaja Institute Belawadi, Naguvanahali Post Srirangapatna Taluk Manoya District - 571477

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III	SEMESTER		Teaching	Teaching	Hours /Week		Exami	nation		Credits
SI. No	Course Code	Title	Department	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	- 200-	03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01-Hour In 02-Hour Pr		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour In 02-Hour Pr		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			: 24hours al: 06 hours	25	510	340	850	28

## **B.E: Information Science and Engineering**

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	Carteria	03	60	10	60	
(ii) L		udit Course) be compulsorily studied by	all lateral entry studer	nts (except B. 1	Sc candidates)		Bela	Principa Institute of Te wadi, Naguva Srirangapatn andya Distric	chnology Myso nahalli Post a Taluk	erc



VSE	EMESTER		Teaching	Teaching H	ours /Week		Exami	ination		Credits
SI. No	Course Code	Title	Department	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	0.000	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 Instr 02-Hour Prac		03	60	40	100	2
8	17CSL48	Microprocessors Laboratory	CS/IS	01-Hour Instr 02-Hour Prac		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: 24 Practical: 06		25	510	340	850	28

## **B.E: Information Science and Engineering**

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	
(ii) La	nguage English (Audit G	Course) be compulsorily studied by all lat	eral entry students (	except B.Sc car	didates)			PROPOS	perty Myso	Te
				2			Maharaja I Bela	srirangapatn andya Distric	chnology Myso nahalli Post a Taluk t - 571477	



Credits

S1.	Course Code	Title	Teaching Department	Teaching Hours /Week			Credits			
No	Course cour			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	1	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 In 02-Hour Pi		03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour In 02-Hour Pr		03	60	40	100	2
			TOTAL	Theory: Practical:		24	480	320	800	26

#### **V SEMESTER**

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#### **B.E:** Information Science and Engineering

Professiona	al Elective-1	Open Elective – 1*** (List offered by CSE Board on				
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.

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



SI.	EMESTER		Teaching Department	Teaching Hours /Week				Credit		
No	Code	The		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 In 02-Hour Pr		03	60	40	100	2
8	17ISL68	File Structures Laboratory with mini project	CS/IS	01-Hour In 02-Hour Pi		03	60	40	100	2
			TOTAL	Theory:22 Practical:	STORE TO BE STORE ST	24	480	320	800	26

## **B.E:** Information Science and Engineering

Professiona	l Elective-2	Open Electiv	re - 2*** (List offered by CSE Board only)
17CS651	Data Mining and Data Warehousing	17CS661	Mobile Application Development
1718652	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 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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## **B.E:** Information Science and Engineering

61			Teaching	Teaching	Hours /Week		Examina	ation		Credits
SI. No	Course Code	Title	Department	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 Ir 02-Hour P		03	60	40	100	2
7	17CSL77	Web Technology Laboratory with mini project	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17ISP78	Project Work Phase-I + Project work Seminar	CS/IS		03	-	-	100	100	2
		TOTAL		Theory:18 Practical a 09 hours	hours and Project:	21	420	380	800	24

#### VII SEMESTER

Profession	al 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 base Finctival eport covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentations in Institute of Technology Mysore Belawadi, Naguvanahalli Post

Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



VII	ISEMESTER		Teaching	Teaching	g Hours /Week		Examin	ation		Credit
SI. No	Course Code	Title	Department	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	CS/IS	Indust	try Oriented	3	50	50	100	2
5	17ISP85	Practice Project Work-II	CS/IS	-	6	3	100	100	200	6
5	17ISS86	Seminar	CS/IS		4	-	-	100	100	1
		TOTAL		Theory: 1 Project au 10 hours	l1 hours nd Seminar:	15	330	370	700	20

## **B.E: Information Science and Engineering**

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



	de		ut a	Teachin	ng Hours	/Week		Examin	ation		
SI. No.	Subject Code	Title	Teaching Department	Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	Credits
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
	17ME35A/	Metal Casting and Welding	ME				02	<b>CO</b>	10	100	4
5	17ME35A/ 17ME35B	Machine Tools and Operations	ME	04			03	60	40	100	4
	171152511	Computer Aided Machine Drawing	ME	01		4	03	60	40	100	3
6	17ME36A/ 17ME36B	Mechanical Measurements and Metrology	ME	03			03	00	40	100	5
	17MEL37A/	Materials Testing Lab/	ME								
7	17MEL37B	Mechanical Measurements and Metrology Lab	ME	1		2	03	60	40	100	2
	17MEL38A/	Foundry and Forging Lab	ME	1		2	03	60	10	100	2
8	17MEL38B	Machine Shop/	ME	1		2	03	00	40	100	2
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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#### B.E. Mechanical Engineering III SEMESTER

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

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SI. No	Subject Code		Teaching	Teac	hing Hours	/Week		Exami	nation		
51. 140	Subject Code	Title	Department	Lecte	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	Credits
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	10		
4	17ME44	Fluid mechanics	ME	03	02			60	40	100	04
5	17ME45A/	Metal Casting and Welding	ME		02		03	60	40	100	04
	17ME45B	Machine Tools and Operations	ME	- 04			03	60	40	100	04
6	17ME46 A/	Computer Aided Machine Drawing	ME	01		4					
0	6 17ME468	Mechanical Measurements and Metrology	ME	03			03	60	40	100	03
	17MEL47A/	Materials Testing Lab/	ME								
7	17MEL47A	Mechanical Measurements and Metrology Lab	ME	1		2	03	60	40	100	02
8	17MEL48A/	Foundry and Forging Lab	ME								
	17MEL48B	Machine Shop/	ME	1		2	03	60	40	100	02
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

#### **B.E. Mechanical Engineering** IV SEMESTER

Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Stirangapatna Taluk Maadya District - 571477



			Teachi	ing Hour	s /Week		Examinatio	n		
sl. No	Subject Code	Title	Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	Credits
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
	Profession	nal Elective-I			Open 1	Elective-I				
	17ME551	Refrigeration and Air-conditioning			17ME		n Technique	s		
	17ME552	2 Theory of Elasticity		C. C. C.	17ME		Environmen		10000	
	17ME553	B Human Resource Management			17ME		and Robotic	101		
	17ME554	Non Traditional Machining			17ME					

## B.E. Mechanical Engineering

#### V SEMESTER

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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VI	SEMESTE	R		Tanal	hing Hours	Week	I	Examina	tion		Credit
Sl. No	Subject Co	de	Title		and the second se	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
	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	3	Heat Transfer	3	2	0	03	60	40	100	4.
4	17ME64	1	Design of Machine Elements -II	3	2	0	03	60	40	100	4
5	17ME652	x	Professional Elective-II	3	0	0	03	60	40	100	3
6	17ME662	x	Open Elective-II	3	0	0	03	60	40	100	3
7	17MEL6	7	Heat Transfer Lab	1	0	2	03	60	40	100	2
8	17MEL6	8	Modeling and Analysis Lab(FEA)	1	0	2	03	60	40	100	2
			TOTAL	21	6	04		480	320	60	40
Pro	fessional Ele	ective	-11		Open Elec	tive-II					
171	4E651 C	Comp	utational Fluid Dynamics	1 State and	17ME661	Energy /	Auditing	1			
17N	4E652 N	Mecha	nics of Composite Materials	f our ste	17ME662	Industria	al Safety				
171	4E653 N	Metal	Forming		17ME663	Mainten	ance Engineering				
171	AE654 7	Fool E	Design		17ME664	Total Qu	uality Management				
171	4E655 A	Autom	obile Engineering	- and a co						Carles and	

## **B.E. Mechanical 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.

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



11 Se	mester		2017- Scheme	echanical <b>E</b>	Engineerin and Examina	g				
No	Subject		Teac	hing Hours	/Week		Exami	nation		s
SI.	Code	Title	Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	Credits
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

and the second	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							

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 aprogramme in a said discipline of study.

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

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



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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 S	emester					and the second				-
0	and Blackson	The second se	Teac	hing Hou	rs /Week		Examin	ation		its
SI. N	Subject Code	Title	. L	Т	Р	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	Cred
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	Indi	ustry Orie	nted	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	
		A			the second s	Contraction of the local division of the			

	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 aprogramme 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

Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalii Post Srirangapatna Taluk 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)

		I SEMEST	ER B.E./B.Te	ch (PHYSIC	CS GRO	DUP)						
				00	Teaching Hours /Week		Examination					
SI. No	Course and Course Code	Course Title	Teaching	tper Settin Board	Theory Lecture	<b>Futorial</b>	'ractical/ Drawing	tation in Jours	E Marks	E Marks	al Marks	

	CONTRACTOR OF STREET, STORE			and the state of the state of the state	-	ANT PORT	Ser Cas	a the second and	ā	O	S	10	1000
						L	Т	Р				5	1
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
		1		and the second second	TOTAL	12	10	06	24	320	480	800	20
Jote	BSC: Bas	ic Science Cour	rses, ESC: Engineering Scie	nce Courses, HSM	<b>1C: Humanity</b> , S	ocial Se	cience	and Ma	nageme	ent Cour	ses.		-
	ition of C	1 hou	r Lecture (L) per week per so r Tutorial (T) per week per so r Practical/Laboratory/Drawn	emester = 1 Credit emester = 1 Credit							1	chnolog	A

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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)

					Tent	Examination				
SL.	Course and Course Code	Course Title	ching	er Settin Board	heary octure	ting .	an in Ca	uta	arks	arks

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								G	25	01			
				and the second	Sector States and States	L	T	P	-	-	se .	5	
1	BSC	ISMATII	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	F
					TOTAL	12	12	04	24	220	400	800	20
	e: BSC: Ba	redit: 2 h	urses, ESC: Engineering Scour Lecture (L) per week per our Tutorial (T) per week per our Practical/Laboratory/Dra	semester =1 Cre semester =1 Cre	edit edit		cience	and M	anagem	ent Cour	rses.		

Maharaja Institute of Cochoology Mysore Belawadi, Nagavanahaili Post Srirangapatna Taluk 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)

					Fech (PHYSIC		Teachir ours /W	g		Exam	ination		
SI. No	and the second	ourse and urse Code	Course Title	Teaching Department	Paper Setting Board	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
-				and the arts with the	A Statistics	L	Т	Р	-	0	s	8	
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	11
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
_		1			TOTAL	12	10	06	24	320	480	800	2

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Maharaja Institute of/Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk 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)

		States		-	50	the second s	eachin urs /W	- C.		Exami	ination	-	
SI. No	and the second second	ourse and urse Code	Course Title	Teaching Department	Paper Setting Board	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
			10111	Charles and the second		L	Т	Р	-			5.00	
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	2

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk 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

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100	ESTER		the second se		Teaching	, Hours /V	Veek		Examin	ation		
SI. No		rse and se Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
					L	Т	Р	1	0	s	F	
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
0		18KVK39	Vyavaharika Kannada (Kannada for communication)/ OR			2		-	100			
9	HSMC	18KAK39	Aadalitha Kannada (Kannada for Administration)	нѕмс							100	1
	1 The second	10.1502	OR Constitution of India, Professional Ethics and Cyber	Allow and a second	1			02	40	60		
	-	18CPC39	Law		Exa	mination	is by ob	jective typ				
State of the	Contraction in the		Law		17	08	T	24	420	480	8	1
				TOTAL	OR	OR	04	OR	OR	OR	900	2
					18	10		26	360	540		1
KVK39	Vyavahari	ka Kannada ( r students wh	Professional Core, HSMC: Humanity and Social Science Kannada for communication) is for non-Kannada speaking o speak, read and write Kannada. se prescribed to lateral entry Diploma holders a	ng, reading and	writing st	udents an	nd 18KA	and the second		innada (1	Kannada 1	for
10	NOMO			Mathematics		01		03	40	60	100	1
10	INCMC	18MATDIP	urses Additional Mathematics I and II prescribed for II				o the lat					
mester	of RE/R	Tech program	fails to register for the said course/fails to secure the m	nesters to comp	plete all th	he forma	lities of	the cour	se and a	appear f	or the U	nivers
ammati	on, in case	, any student					raja Inst	itute of di, Nagun irangapa	echnol vanahal	ogy My	sore	

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



			Scheme of Teaching an									
			Outcome Based Education(OBE) and			the second s	CBCS)					
rogr	amme: (	CIVIL ENGIN	(Effective from the ad	cademic year 20	10-19)							-
V SF	EMESTE	R										-
· ~		IX		1	Teacl	hing Hours /V	Veck	-	Exami	nation		-
					Teaci	ing nours /v			Examin	nation		
SI. No		ourse and ourse code	Course Title	Teaching Departmen	Theory Lecture	Tutorial	Practical/ Drawing	Juration in hours	OLE Marks	SEE Marks	otal Marks	
					L	Т	Р				-	
	RSC	1814 1741	Complex Analysis Deskahility And Statistical Matheda	Mathematics	2	2		03	40	60	100	
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods		2							
2	PCC	18CV42	Analysis of Determinate Structures	Civil Engg.	3	2		03	40	60 60	100	-
3	PCC	18CV43	Applied Hydraulics	Civil Engg.	3	0		03	40	60	100	1
4	PCC	18CV44	Concrete Technology	Civil Engg.	3	0		03	40	60	100	-
5	PCC	18CV45	Advanced Surveying	Civil Engg.	2	0		03	40	60	100	
6	PCC	18CV46	Water Supply & Treatment Engineering	Civil Engg. Geology		2	2	03	40	60		
0	PCC	18CVL47	Engineering Geology Laboratory	Civil Engg.		2	2	03	40	60		
8	PCC	18CVL48 18KVK39/49	Fluid Mechanics and Hydraulic Machines Laboratory Vyavaharika Kannada (Kannada for Communication)/	Civit Engg.			-	0.5	10		100	
1	Sec. 2	10K V KJ 9/49	OR			2			100			
	Sec. 1	101/ 41/20/40		-		-				-	100	
	HSMC	18KAK39/49	Aadalitha Kannada (Kannada for Administration) OR	HSMC							100	
				-	1			02	40	60		
	and the second second	18CPC39/49	Constitution of India, Professional Ethics and Cyber Law			Examinatio	n is by ob					
				TOTAL	17	08		24	420	480		
					OR	OR	04	OR	OR	OR	900	
					18	10		26	360	540	1	_

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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 TE	CHNOLOGICAL UNIVE	RSITY, J	BELA	GAVI				
	Scheme of T	<b>feaching and Examination</b>	1 2018 -	19					
	Outcome Based Education	n(OBE) and Choice Based	Credit S	System	(CBCS)	)			
CIVIL ENCINEE	(Effective	from the academic year 20	018 – 19)			and the second			Carlo Carlos
ER	KING			-					
			Teachin	ng Hours	/Week		Exam	ination	
the second se	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	uration in hours	IE Marks	EE Marks	Fotal Marks
			L	Т	Р	a	0	8	Ĩ
	Course and Course code	Scheme of T Outcome Based Education (Effective CIVIL ENGINEERING ER	Scheme of Teaching and Examination Outcome Based Education(OBE) and Choice Based (Effective from the academic year 20) COURSE AND COURSE AND CO	Scheme of Teaching and Examination 2018 – Outcome Based Education(OBE) and Choice Based Credit S (Effective from the academic year 2018 – 19) : CIVIL ENGINEERING ER Course and Course Title	Scheme of Teaching and Examination 2018 – 19         Outcome Based Education(OBE) and Choice Based Credit System (Effective from the academic year 2018 – 19)         : CIVIL ENGINEERING         ER         Course and Course Title         Course code         Course Title	Course and Course code Course Title Course T	Course and Course code Course Title Course T	Scheme of Teaching and Examination 2018 – 19         Outcome Based Education(OBE) and Choice Based Credit System (CBCS)         (Effective from the academic year 2018 – 19)         COULL ENGINEERING         Teaching Hours/Week         Example         Course and Course Title         Course Title	Scheme of Teaching and Examination 2018 – 19         Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)         COURSE and Course Title         Course code         Course Title

		Test Barris		TOTAL	18	10	04	26	360	540	900	25
9	HSMC	18CIV59	Environmental Studies	[Paper setting Board: Civil Engineering]	1			02	40	60	100	1
				Civil/Environmental	Section and							
8	PCC	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.		2	2	03	40	60	100	2
7	PCC	18CVL57	Surveying Practice	Civil Engg.		2	2	03	40	60	100	2
6	PCC	18CV56	Highway Engineering	Civil Engg.	3			03	40	60	100	3
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3			03	40	60	100	3
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3			03	40	60	100	3
3	PCC	18CV53	Design of RC Structural Elements	Civil Engg.	3	2		03	40	60	100	4
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	3	2		03	40	60	100	4
1	HSMC	18CV51	Construction Management & Entrepreneurship	Civil Engg.	2	2		03	40	60	100	3

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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I SEMESTER		VISVESVARAYA TECH CIV Scheme of Teach Outcome Based Education(OB	VIL ENGIN								the second se
SEMESTER		Scheme of Teach Outcome Based Education(OB	ing and E								1 2 12
SEMESTER		Unit only Date of the anti-	Ing and Ch	xaminatio	on 2018	- 19	~				
SEMESTER		(Effective from	the acade	nic vear	$a \ Crean 2018 - 19$	System (CBCS	)				
			the deader	me year .	.010 1	)					1
			L.	Tea	ching He	ours /Week		Exam	ination		
	urse and Irse code	Course Title	Teaching Departmen	Theory Lecture	Tutoria I	Practic al/ Drawin g	Duration in hours	E Marks	E Marks	Total Marks	Credits
			D	L	Т	Р	D i	CIE	SEE		
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		ried out d	uring the	e vacation/s of V	VI and V	/II seme:	sters and		and the second se
			the supervision of the second s	15	12	06	24	320	480	800	24



Solid Waste Management
Alternate Building Materials
Ground Improvement Techniques
Railway, Harbours, Tunnelling & Airports
Open Elective -A
Remote Sensing & GIS
Traffic Engineering
Occupational Health & Safety
Sustainability Concepts in Civil Engineering
Intelligent Transportation Systems
Conservation of Natural Resources

Selection of an open elective shall not be allowed if,

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- 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.

**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.

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



			VISVESVARAYA TECHNO Scheme of Teachi Outcome Based Education(OBE	ng and Exan	ination	2018 -	19					
							system	(CDCS)				
Progra	mme: CIV	I ENCINI	(Effective from	the academic	year 201	8 - 19)					A CONTRACT	The general
and the second second	EMESTER	L ENGINI	LEKING					-				
VII SI	ENILSIEK								Ees			
					Teachi	ng Hours /	Week		Exa	mination	1	-
SI. No	Contraction of the second s	rse and se code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	uration in hours	IE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р	D	0	s	Ĥ	
I	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 complete vacation of VII			on of VI a	and VII ser	mesters, it	shall be	carried out d	uring the
				TOTAL	15	04	06	21	380	420	00	20
Nata D	20 P 6	L DEC I									1331	
vote: PC	C: Protessiona	al core, PEC: F	Professional Elective.								and the second second	
Course	code under 18	CU72V		fessional Elective	- 2							
18CV73			Course Title Theory of Elasticity			-		_		1000	12 and the second	1
18CV73			Air Pollution and Control									
and a liter										in all	and the second	
18CV73			Pavement Materials & Construction		Lilles						and the	1.8.1.18.13
18CV73			Ground Water Hydraulies									
18CV73	>		Masonry Structures		-							
Course	and a section 100	CUTAN L		fessional Electives	5 - 3		-				1000	
18CV74	code under 18		Course Title	all the second second								
18CV74			Earthquake Engineering Design Concepts of Building Services					and the second second		1 California		
I AL VIA												

Maharaja Institutojor Technology Belawadi, Naguvana Jahr Pos Srirangapatna Taluk Mandya District - 571477



18CV744	Design of Hydraulic Structures
18CV745	Urban Transport Planning
Course code under 18CV75X	Course Title Open Elective -B
18CV751	Finite Element Method
18CV752	
18CV753	Numerical Methods and Applications
	Environmental Protection and Management
Students can select any one of	the open electives effect to the Device of the device the second state of the second s
18XX75X).	the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under
	Il not be allowed if
Sciection of an open elective sha	
<ul> <li>Selection of an open elective sha</li> <li>The candidate has studied the</li> </ul>	some course during the sine of the
<ul> <li>The candidate has studied the</li> </ul>	e same course during the previous semesters of the programme.
<ul> <li>The candidate has studied the</li> <li>The syllabus content of open</li> </ul>	e same course during the previous semesters of the programme. elective is similar to that of the Departmental core courses or professional electives.
<ul> <li>The candidate has studied the</li> <li>The syllabus content of open</li> <li>A similar course, under any course</li> </ul>	e same course during the previous semesters of the programme.

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.

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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Maharala Institute of Technolony



	mme: CIVIL MESTER	ENGINEER	ang	State of the second								
VIII SE					Teachi	ing Hours	s/Week		E	xamination	A STATE OF THE OWNER	Γ
SI. No		ourse and urse code	Course Title	Teaching Department	- Theory Lecture	H Tutorial	Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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	18CV185	Internship	Completed during semesters and /or V	the vacatio	on/s of V II semest	I and VII ers.)	03	40	60	100	3
ourse co	ode under 18CV	/82X	Pr Course Title Bridge Engineering Prefabricated Structures	ofessional Electives -	4						•	
			Advanced Foundation Engineering									
8CV822				and the second se					-		- Salara	
8CV821 8CV822 8CV823 8CV824			Rehabilitation & Retrofitting			and the second	and the second					
8CV822			Rehabilitation & Retrofitting Pavement Design				-					

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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.

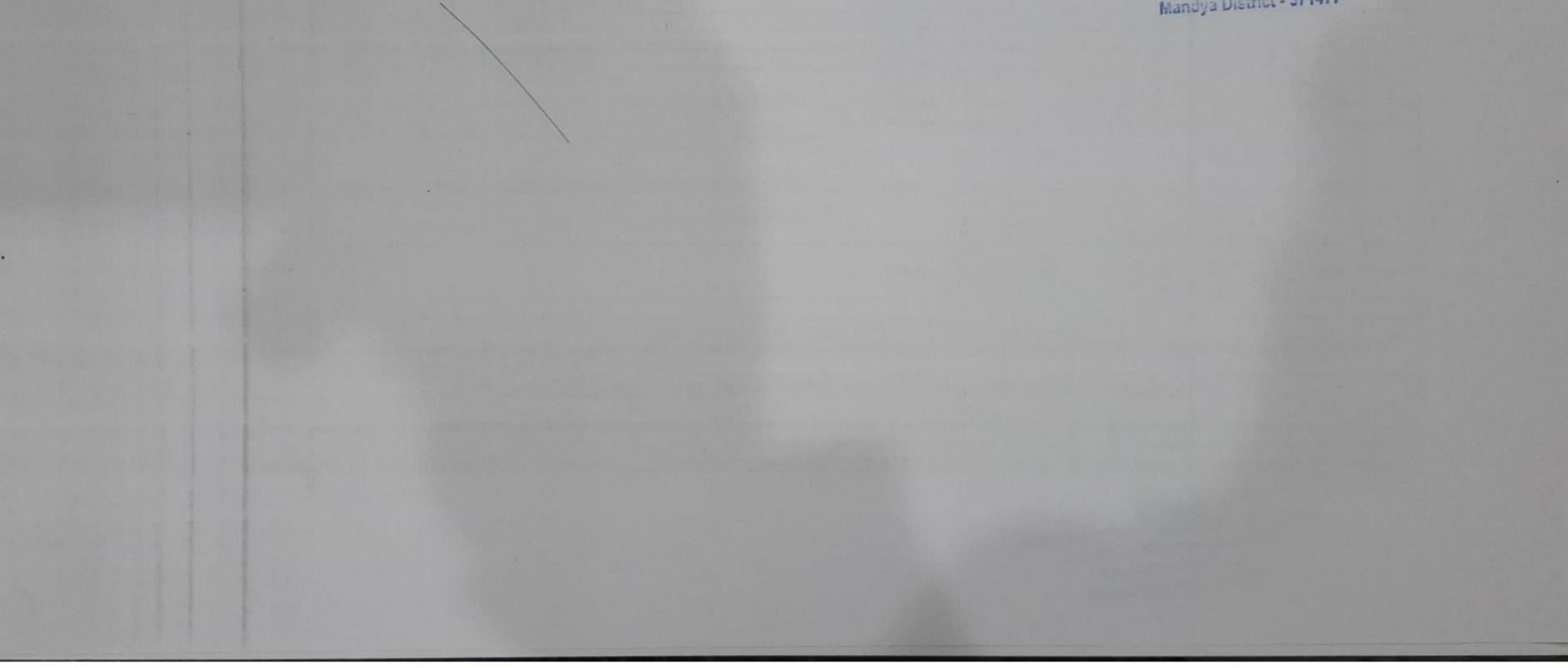
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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).

Maharaja Institute of Technology Mysore

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Maharaja Institute of Technology Myson Belawadi, Naguvanahalli Post Srirangapatna Teluk Mandya District - 571477





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				nt		g Hours		.5		ination 9	9	
SI. No		arse and rse Code	Course Title	Teaching Department	Theory	t Tutorial	- Practical/ Drawing	Duration i hours	CIE Marks	SEE Marks	Total Marks	Credite
-	BSC	18MAT31	Transform Calculus, Fourier Series	Mathematics	L 2	т 2		03	40	60	100	3
1		-	And Numerical Techniques		2	2		03	40	60	100	4
2	PCC	18CS32	Data Structures and Applications	CS/IS CS/IS	3	0		03	40	60	100	1
3	PCC	18CS33	Analog and Digital Electronics	CS/IS	3	0		03	40	60	100	3
4	PCC	18CS34	Computer Organization Software Engineering	CS/IS	3	0		03	40	60	100	
5	PCC PCC	18CS35 18CS36	Discrete Mathematical Structures	CS/IS	3	0		03	40	60	100	
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
0	Tee	18KVK39	Vyavaharika Kannada (Kannada for communication)/	00110		2			100			
9	HSMC	18KAK39	Aadalitha Kannada (Kannada for Administration)	HSMC		4			100		100	1
		OR	OR						1			
		18CPC39	Constitution of India, Professional		1			02	40	60		
		Toeresy	Ethics and Cyber Law			-	s by obje	and the second se	the second s		-	
					17	08		24	420 OR	480 OR	900	2
				TOTAL		OR	04	OR	OK	UK	900	1 4
18K	VK39 Vya	vaharika Kann	C: Professional Core, HSMC: Humanit ada (Kannada for communication) is for	ty and Social Scie r non-Kannada sp	eaking, re	10 IC: Non-	-credit m	26 andator	360 y course	540	9 Aadal	itha
18K	VK39 Vya nada (Kann	vaharika Kann ada for Admin	ada (Kannada for communication) is for istration) is for students who speak, read	ty and Social Scie r non-Kannada sp d and write Kanna	18 nce, NCM eaking, re ada.	10 IC: Non- ading an	-credit m id writin;	26 andator g studen	360 y course ts and 1	540 8KAK3	9 Aadal	itha
18K	VK39 Vya nada (Kann	vaharika Kann ada for Admin Course pres	ada (Kannada for communication) is for istration) is for students who speak, read scribed to lateral entry Diploma h	ty and Social Scie r non-Kannada sp d and write Kanna olders admitted	18 nce, NCM eaking, re ada. d to III se	10 IC: Non- ading an	-credit m id writin;	26 andator g studen gineeri	360 y course ts and 1 ng pros	540 8KAK3 grams		
18K Kan 10 (a)T	VK39 Vya nada (Kann NCMC he mandato	vaharika Kann ada for Admin Course pres 18MATDIP ory non – cred	ada (Kannada for communication) is for istration) is for students who speak, read scribed to lateral entry Diploma h 31 Additional Mathematics - I it courses Additional Mathematics I and	ty and Social Scie r non-Kannada sp d and write Kanna olders admitted Mathematics d II prescribed fo	18 nce, NCM eaking, re ada. d to III so 02 r III and I	10 IC: Non- ading an emester 01 V seme:	-credit m id writin; r of Eng  sters res	26 andator g studen gineeri 03 pectively	360 y course ts and 1 ng pros 40 y, to the	540 8KAK3 grams 60 lateral	100 entry Di	 plon
18K Kan 10 (a)T hold cour pres sem	VK39 Vya nada (Kann NCMC he mandato ers admitte se and app cribed CIE ester/s to ap These Cours	Vaharika Kann ada for Admin Course pres 18MATDIP ory non – cred d to III semest ear for the Un marks, he/she opear for SEE. ses shall not be	ada (Kannada for communication) is for istration) is for students who speak, read acribed to lateral entry Diploma h 31 Additional Mathematics - I it courses Additional Mathematics I and ther of BE/B.Tech programs, shall attend iversity examination. In case, any stude shall be deemed to have secured F grades considered for vertical progression, but	ty and Social Scie r non-Kannada sp d and write Kanna olders admitted Mathematics d II prescribed for d the classes durin ent fails to registe de. In such a case	18 nce, NCM eaking, reada. d to III se 02 r III and I ng the resp er for the s, the stude e courses :	10 IC: Non- ading an emester 01 V semes bective s said cou ents have	-credit m id writin; r of Eng  sters resp sters resp sters resp emesters irse/ fails e to fulfi mandato	26 andator g studen g studen 03 pectively s to com s to secult ill the re ry for th	360 y course ts and 1 ng prog 40 y, to the plete all ure the n quirement e award	540 8KAK3 grams 60 lateral the for ninimur ents duri	100 entry Di malities n 40 % ng subse ee	0 plon of th of th
18K Kan 10 (a)T hold cour pres sem (b)	VK39 Vya nada (Kann NCMC he mandato ers admitte se and app cribed CIE ester/s to ap These Cours Co	Vaharika Kann ada for Admin Course pres 18MATDIP ory non – cred d to III semest ear for the Un marks, he/she opear for SEE. ses shall not be	ada (Kannada for communication) is for istration) is for students who speak, read acribed to lateral entry Diploma h 31 Additional Mathematics - I it courses Additional Mathematics I and ter of BE/B.Tech programs, shall attend iversity examination. In case, any stude shall be deemed to have secured F grades considered for vertical progression, but ribed to lateral entry B. Sc degree	ty and Social Scie r non-Kannada sp d and write Kanna olders admitted Mathematics d II prescribed for d the classes durin ent fails to registe de. In such a case t completion of the bolders admitt	18 nce, NCM eaking, reada. d to III se 02 r III and I ng the resp er for the s, the stude e courses a ted to III	10 IC: Non- ading an emester 01 V semes bective s said cou ents hav shall be shall be	-credit m id writin; r of Eng  sters resp sters resp sters resp sters resp emesters irse/ fails ter of ulfi mandato ter of F	26 andator g studen g studen 03 pectively s to com s to secul ill the re ry for th <b>Enginee</b>	360 y course ts and 1 ng pros 40 y, to the plete all ure the r quireme e award ring pr	540 8KAK3 grams 60 lateral the for ninimur ents duri of degr	100 entry Di malities n 40 % ng subso ee	of t of t eque
18K Kan 10 (a)T hold cour pres sem (b) 1 Late of th	VK39 Vya nada (Kann NCMC he mandato ers admitte se and app cribed CIE ester/s to ap These Cours Co ral entrant he First Ye	Vaharika Kann ada for Admin Course pres 18MATDIP ory non – cred d to III semest ear for the Un marks, he/she opear for SEE. ses shall not be ourses prese students from ear Engineering	ada (Kannada for communication) is for istration) is for students who speak, read acribed to lateral entry Diploma h 31 Additional Mathematics - I it courses Additional Mathematics I and are of BE/B.Tech programs, shall attend iversity examination. In case, any stude shall be deemed to have secured F grad considered for vertical progression, but ribed to lateral entry B. Sc degree B.Sc. Stream, shall clear the non-credit g Programme. These Courses shall not	ty and Social Scie r non-Kannada sp d and write Kanna olders admitted Mathematics d II prescribed for d the classes durin ent fails to registe de. In such a case t completion of the bolders admitt courses Engineer	18 nce, NCM eaking, reada. d to III se 02 r III and I ng the resp er for the s, the stude e courses a ted to III ing Graph	10 IC: Non- ading an emester 01 V semes bective s said cou ents hav shall be shall be shall be	-credit m id writin; r of Eng  sters resp emesters irse/ fails e to fulfi mandato ter of F Element	26 andator g studen g studen gineerin 03 pectively s to com s to secular ill the re ry for the <b>Enginee</b> s of Civ	360 y course ts and 1 ng prog 40 y, to the plete all ure the r quireme e award ring pr	540 8KAK3 grams 60 lateral the for ninimur ents duri of degr ogram eering a	100 entry Di malities n 40 % ng subso ee ee	plc of of equ
18K Kan 10 (a)T hold cour pres sem (b) 1 Late of the man AIC 6,Al adm Poir requ	VK39 Vya nada (Kann NCMC he mandato ers admitte se and app cribed CIE ester/s to ap These Cours Co ral entrant he First Ye datory for t TE Activit (CTE Activit itted to the its respectiv-	vaharika Kann ada for Admin Course pres 18MATDIP ory non – cred d to III semest ear for the Un marks, he/she opear for SEE. ses shall not be ourses prese students from ear Engineering the award of de ty Points to b vity Point Pres 4 years Degre vely for the awar 50 Activity P	ada (Kannada for communication) is for istration) is for students who speak, read acribed to lateral entry Diploma h 31 Additional Mathematics - I it courses Additional Mathematics I and are of BE/B.Tech programs, shall attend iversity examination. In case, any stude shall be deemed to have secured F grad considered for vertical progression, but ribed to lateral entry B. Sc degree B.Sc. Stream, shall clear the non-credit g Programme. These Courses shall not	ty and Social Scie r non-Kannada sp d and write Kanna olders admitted Mathematics d II prescribed for the classes durin ent fails to registe de. In such a case t completion of the be considered for the considered for the considered for the considered for the considered for the considered for the c	18 mce, NCM eaking, reada. d to III set 02 r III and I ing the resp er for the c, the stude ted to III ing Graph or vertical day colle bove the programm Students t earned sh	10 IC: Non- ading an emester 01 V semes bective s said cou ents hav shall be shall be shall be semes ics and progres academi e throug ransferr all be re	r of Eng 	26 andator g studen g sto com g sto com g sto secu s to secu s to secu s of Civ at comp g entry, s other Ur on the stu	360 y course ts and 1 ng prog 40 y, to the plete all ure the n quireme e award ring pr il Engin letion of ore det bay Co shall ear niversitie udent's of	540 8KAK3 grams 60 lateral the for ninimul of degr of degr of degr of degr of degr of degr ails refe ollege no n 100 and es to fift eighth so	100 entry Di malities n 40 % ng subso ee s and Mech ourses sh er to Ch egular sh nd 75 Ao h semester	plo of equi- han all apt tude ctiv

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

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

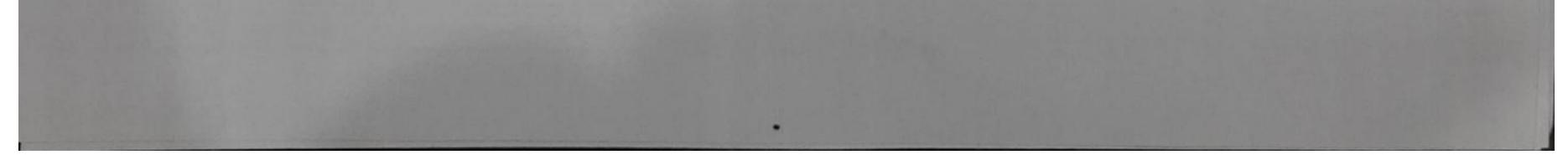


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IVS	EMESTE	R	(Effective from t	ne academie y			and the second sec	-	Exan	nination	_	T
SL. No	1.0072	orse and rse Code	Course Title	Teaching Department	Teachin Lecture Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Condition
		1	Complex Analysis, Probability and		L	Т	Р	03	40	60	100	3
1	BSC	18MAT41	Statistical Methods	Mathematics	2	2			40	60	100	4
2		18CS42	Design and Analysis of Algorithms	CS / IS	3	2		03	10	60	100	3
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	00		
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
		18KVK49	Vyavaharika Kannada (Kannada									
9	HSMC	18KAK49	for communication)/ Aadalitha Kannada (Kannada for Administration)	HSMC	-	2			100		100	1
	10000	OR	OR Constitution of India Professional									
	a starter	18CPC39	Constitution of India, Professional Ethics and Cyber Law		I E			02	40	60		
		1	Lunes and Cyber Law		17	08	s by obje	24	420	480		-
				TOTAL	OR 18	OR 10	04	OR 26	OR 360	OR 540	900	24
18K	VK49 Vya nada (Kanr	vaharika Kann ada for Admin	CC: Professional Core, HSMC: Humani ada (Kannada for communication) is fo istration) is for students who speak, rea	or non-Kannada sp ad and write Kanna	eaking, re ada.	ading an	d writing	g studen	ts and 1	8KAK4	9 Aadali	tha
10	NCMC	18MATDIP		Mathematics	02	01		03	40	60	100	0
hold cour pres scm	lers admitte rse and app cribed CIE ester/s to ap These Cour	ed to III semest ear for the Un marks, he/she opear for SEE. ses shall not be	it courses Additional Mathematics I and ter of BE/B.Tech programs, shall atten- iversity examination. In case, any stud- shall be deemed to have secured F gra- considered for vertical progression, bu- ribed to lateral entry B. Sc degree	d the classes durin lent fails to regist ide. In such a case it completion of th	ng the resp er for the e, the stude e courses	pective s said cou ents hav shall be	emesters arse/ fails e to fulfi mandato	to com to secu ll the re ry for th	plete al are the quireme e award	l the for minimur ents duri l of degr	malities n 40 % o ng subse	of the
of th	ral entrant he First Ye idatory for t	students from ar Engineering the award of de	ribed to lateral entry B. Sc degree B.Sc. Stream, shall clear the non-credit g Programme. These Courses shall no gree.	t courses Engineer of be considered f	ring Graph or vertica	nics and I progre	Element ssion, bu	s of Civ it comp	il Engir letion o	neering a of the co	und Mech ourses sha	all be

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



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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 yea	1 2010	- 17)
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V SEMIESTED

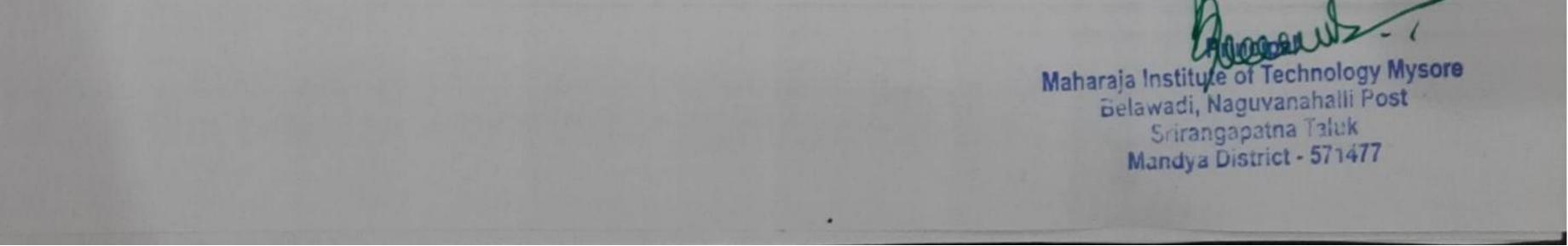
1. m. l					and the second se	hing H Week	ours		Exam	ination		
l. Io		rse and se code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
- And			and the second second	and the second second	L	Т	Р				-	
1	HSMC	18CS51	Management, Entrepreneurship for IT idustry	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
		1		TOTAL	18	10	04	26	360	540	900	25

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



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		Choic	Scheme of Teaching a ce Based Credit System (CBC (Effective from the a	S) AND O	utcome	e Based	d Educa	tion (C	OBE)			
I S	EMESTE	R	(Effective from the	academic								
					Teachi	ng Hours	s /Week		Exam	ination		
SI. No		ourse and ourse code	Course Title	Teaching Department	. Theory Lecture	4 Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC	18CS61	System Software and Compilers	CS/IS	3	T 2	P	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 -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	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 carr intervening				-		-	-	
	L			semesters)	15	10	06	24	320	480	800	24
iote:	PCC: Pr	ofessional core,	PEC: Professional Elective, OE: Oper	Elective, M	P: Mini-	project,	INT: Inte	ernship.				
	-			E.V. S. C.						6.60		
Cour	se code u	nder18XX64X		onal Elective	-1				-			
8CS	-7		Data Mining and Data Warehousing		17.20							
8CS	642		Object Oriented Modelling and Desig	n							1000	
8CS	643		Cloud Computing and its Application									
8CS	644	The second s	Advanced JAVA and J2EE				n Brank		a Louis	a land	Trailing Pr	174
8CS	645		System Modelling and Simulation						11.28		1000	
8CS	651		Open Elective -A (N	Not for CSE /	ISE Prog	rams)			_		-	
8CS		and the second second second	Mobile Application Development	1 14								_
8CS			Introduction to Data Structures and A Programming in JAVA	Igorithms							San Maria	
8CS		74	Introduction to Operating System									
Th Th A	ion of an op e candidate e syllabus similar cou	en elective is not has studied the sa content of open ele rse, under any cate	open electives offered by any Department (Plea allowed provided, ame course during the previous semesters of th ective is similar to that of Departmental core of egory, is prescribed in the higher semesters of the cumented under the guidance of Programme C	e programme. ourses or profe the programme	ssional elec	ctives.	s under 18C	S65X).				
CIE p i) Sin Depar kill a ii) In ward SEE f i) Sin condu ii) In condu	ed to an ind rocedure f gle discipli tment, one nd question terdisciplin ed for the M ed for the M or Mini-pr gle disciplin cted at the terdisciplin cted separa nship: All id VIII sem icred as a h	dividual student or for Mini-project: ine: The CIE mark of whom shall be and answer session ary: Continuous Mini-project, shall project report shall roject: ine: Contribution department. nary: Contribution tely at the department the students admit esters. A Universion cad of passing and	bility/abilities of the student/s and recommend to a group having not more than 4 students. As shall be awarded by a committee consisting the Guide. The CIE marks awarded for the Min on in the ratio 50:25:25. The marks awarded for Internal Evaluation shall be group wise at the of be based on the evaluation of project report, par be the same for all the batch mates. To the Mini-project and the performance of eac in to the Mini-project and the performance of eac ments to which the student/s belongs to. Ted to III year of BE/B. Tech shall have to under ty examination shall be conducted during VIII shall be considered for the award of degree. The sity examination after satisfying the internship	of the Head of ni-project work r the project rep college level wir roject presentat th group memb ach group memb rego mandatory semester and ti hose, who do r	the concer , shall be b port shall b ith the part ion skill ar er shall be ber shall be internship he prescrib	ned Depa based on t e the sam icipation od question assessed e assessed o of 4 wee bed credit	rtment and he evaluation of all the groon and answ individually d individually cks during to shall be ind	two senio on of proj batch ma uides of th er session y in the se lly in sem he vacatio	or faculty ect report ates. the college in the rates mester end on of VI a VIII sem	members t, project e. The CI atio 50:25 nd exami examina examina and VII se ester. Inte	s of the presentat E marks 5:25.The r nation (SEE tion (SEE emesters a	ion marks EE) 3) and /0
VII an												



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			SVESVARAYA TECHNOLO Scheme of Teaching a Based Credit System (CBC	and Exan S) AND O	nination Outcome	e Based	– 19 I Educa					
VII	EMESTER		(Effective from the a	academic	year 20	18 - 19	"	1				_
vii b	EMESTER	Land Land Street Street						-				-
	and the second se				Teach	ing Hour	s /Week		Exam	ination		-
SI. No	and the second se	rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Cradite
				1.3 1.2 20 1	L	Т	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 com carried out	pleted du during th	iring the	vacation of	of VI and tions of	I VII sen VII and	nesters, VIII se	it has to mesters	be
	-	and the second s		TOTAL	17	-	04	18	340	360	700	20
	: PCC: Profe		EC: Professional Elective, OEC: Ope Profession Course Title	n Elective, I nal Elective		rnship.						
Cour	18CS		Software Architecture and Design	Patterns			10					
	18CS		High Performance Computing	ratterns								
	18CS		Advanced Computer Architecture								ALC: NO.	0.00
1.2	18CS		User Interface Design				1.17.1 1.17.1			-		
	1000	134		al Electives	- 3							
Cour	se code unde	r 18CS74X	Course Title								- Maria	The second
	18CS		Digital Image Processing				•					
	18CS		Network management							2300		
	18CS		Natural Language Processing									
	18CS		Cryptography				S. T. C. S.					
	18CS		Robotic Process Automation Desig	n & Develop	oment							
			Open Elective -B (No	ot for CSE / 1	SE Progr	ams)					1. A	
	18CS	751	Introduction to Big Data Analytics									
	18CS	752	Python Application Programming									
	18CS	753	Introduction to Artificial Intelligen	ce								
			Introduction to Dot Net framework	the state of the s								

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.

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalii Post

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			ISVESVARAYA TECHNO Scheme of Teachin	ng and Exan	inatio	n 2018	8 - 19					
		Choic	e Based Credit System (C					ation (	OBE)			
	an month		(Effective from t	the academic	year 20	018 - 1	9)			1		-
vm	SEMESTEI	<										-
					Teachi	ng Hours	s /Week	and the state	Examin	nation		
SI. No	22230.54	rse and se code	Course Title	Teaching Department	Theory Lecture	H Tutorial	- Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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	(Comple interveni VII seme VIII seme	ng vacati esters and	ions of \	Carlo and the state of the second	03	40	60	100	3
				TOTAL	06		04	15	260	240	500	18
Note:	PCC: Profe	essional Core	, PEC: Professional Elective, OEC Profe	: Open Elective, essional Electives		ternshij	).					
	se code r 18CS82X	Course T										
18CS	821	Mobile C	omputing									
18CS	822		Area Networks									
18CS	823	NoSQL D										
18CS	824		e 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).

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



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		the state of		rom the academic year	2018 - 19)							
Progr	amme: B.E: 1	electronics & C	ommunication Engineering	VI SEMESTER								
				VI SEMESTER	Teachin	g Hours /	Week		Examin	ation		
SI. No	Course and Course code PCC 18EC61 PCC 18EC62		Course Title	Teaching Department	Theory Lecture	T Tutorial	- Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
-	DCC	195061	Digital Communication		3	2		03	40	60	100	4
1			Embedded Systems		3	2		03	40	60	100	4
2	-		Microwave and Antennas		3	2		03	40	60	100	4
3	PCC	18EC63	Professional Elective -1		3			03	40	60	100	3
4	PEC	18XX64X	Open Elective -A		3			03	40	60	100	3
5	OEC	18XX65X	Embedded Systems Laboratory			2	2	03	40	60	100	2
6	PCC	18ECL66	Communication Laboratory			2	2	03	40	60	100	2
7	PCC	18ECL67	Mini-project				2	03	40	60	100	2
8	MP	18ECMP68	Internship	To be carried out d	uring the v	acation/s	of VI and V	II semest	ers and /o	r VII and	VIII sem	lesters
9	Internship		Internantp	TOTAL	15	10	6.	24	320	480	800	2
Note:	: PCC: Profes	sional core, PE	C: Professional Elective, OE: Open H	Elective, MP: Mini-pro Professional Elective	ect. -1							
Co	urse code und	er 18XX64X	Course Title			-			-			
18EC		Andrea Physics and a state	Operating System	and the second s	and the second second							
18EC		a street, some	Artificial Neural Networks	And the second s								
18EC	Contraction of the local data and the local data an		Data Structures using C++	the second s	-							
18EC			Digital System Design Using Verile	og	in the second							
18EC			Nanoelectronics	and the second second second	a second	11						
TOPE	C646		Python Application Programming			and the second	and the second			4	-	_

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Maharaja Institute of technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Manoya District - 571477



				VISVESVARAYA TECHNOLOGICA Scheme of Teaching and E: Outcome Based Education (OBE) and Cho (Effective from the academ)	Examination oice Based	n 2018 – 1 Credit S	19						
	Prog	ramme: I	3.E: Electronics &	& Communication Engineering					13				
				III SEMES	TER	Taashi	a Hour	all ank		Exami	ination		
	SI. No	The second se	Course and Course Code	Course Title	Teaching Department	Theory	Tutorial Bu	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical	Mathe	L 2	<b>T</b> 2	P	03	40	60	100	3
w	2	PCC	18EC32	Techniques Network Theory	mattes	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
			18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/			2			100			
		0	18KAK39/49	Aadalitha Kannada (Kannada for Administration)			2			100		100	
	9	HSMC		OR	HSMC							100	·
		H	10000000/10	Constitution of India, Professional Ethics and Cyber		1			02	40	60		
			18CPC39/49	Law		Examin	ation is b	by objective			100		
						17	10		24	420	480	(	

Principal Maharaja Institute of Technology Mysore Belu A ada Radja reminalti Post Sritangapatna Tituk Mandya District - 571477



ISKVK39 Vy	avaharika Kannada	Professional Core, HSMC: Humanit (Kannada for communication) is ation) is for students who speak, read	for non-Kannada spe	eaking,	reading	and writ	ting stud	lents and	ISKAR	C39 Aad	lalit
	Course pr	escribed to lateral entry Diploma	holders admitted to	III sem	ester of	f Engine	ering pr	ograms			_
0 NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01		03	40	60	100	
holders admitt	ted to III semester of opear for the Unive E marks, he/she sha	ourses Additional Mathematics I ar of BE/B.Tech programs, shall atten rsity examination. In case, any stu- ill be deemed to have secured F gra	d the classes during	the resp for the	e said c	semester: ourse/fai	s to com ls to sec	cure the r	minimu	m 40%	of

32

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 is sued 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.

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



		Outcome Based Education	eaching and Exa	mination 2 bice Based	2018 – 19 Credit Syste							
Progra	mme: B.E: Electronics & Con	nmunication Engineering	IV SEMEST	ER		-						
					Teaching	Hours /	Week		Examin	nation		
SI. N o	Course and Course code	Course Title	•	Teaching Department	Theory Lecture	Tutorial	d Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Condition of the

	and the second s		and the second se		L	Т	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	5
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 60	100	2
8	PCC	18ECL48	Analog Circuits Laboratory			2	2	03	40	00	100	-
		18KVK39/49	Vyavaharika Kannada (Kannada for Communication)			2			100			
	0	18KAK39/49	Aadalitha Kannada (Kannada for Administration)	HSM			1	-			100	1
9	HSMC		OR	C			1	02	40	60	100	
	HSH		Constitution of India, Professional Ethics and Cyber		1			02	40		-	1
1000		18CPC39/49	Law		Ex	amination	is by obj	1				-
			Lun		17	10		24	420	480		1
				TOTAL	OR	OR	04	OR	OR	OR	900	24
					18	08		26	360	540	and the second	1

26 360 540 Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477

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Not	te: BSC: Basi	ic Science, PCC: Pro	ofessional Core, HSMC: Humanity	and Social Science	NCMC:	Non-cred	lit mand:	atory co	urse.			
		adalitha Kannada (K	annada for Administration) is for st	udents who speak,	read and	write Kar	writing mada.	student	s and			
	1	Course pres	cribed to lateral entry Diploma ho	olders admitted to	III seme	ster of E	ngineeri	ing prog	grams			
10	NCMC	18MATDIP41	Additional Mathematics – II	Mathematics	02	01		03	40	60	100	0
hol	lders admitted	to III semester of	rses Additional Mathematics I and BE/B.Tech programs, shall attend ty examination. In case, any stude	the classes during	, the resp	ective ser	nesters	to comp	olete all	the form	nalities	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 4 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.

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



			Outcome Based Education (OBE) (Effective from t	a and Examination 20	dit Syste							
Progr	ramme: B.E:	Electronics & C	ommunication Engineering	SEMESTER								
13 Carl	1		1	SEITESTER	Feaching	Hours	/Week		Examinat	ion	_	
SI. No		urse and irse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р					
1	HSMC	18ES51	Technological Innovation Management and Entrepreneurship		3	0		03	40	60 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	3
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		2	03	40	60	100	2
7	PCC	18ECL57	Digital Signal Processing Laboratory			2	2	03	40	60	100	1 2
8	PCC	18ECL58	HDL Laboratory			4		05				T
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental [Paper setting: Civil Engineering Board]	1		-	02	40	60	100 900	-
	1			TOTAL	19	8	4	26	360	540	1 900	

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AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued 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 Balawski, Nagavanahalti Post Shi angapatna Taluk Manuja District - ST 1477



-	Progr	ammar D.F.		Outcome Based Education (Effective	eaching and Examina	ntion 2018 - sed Credit	19 System (						
ł	riogr	annine; D.E.;	Electronics & C	Communication Engineering	VI SEMESTER					_			
t					VI SEWIESTER	Teachin	g Hours	/Week		Examin	ation		
	SI. No	and the second se	rse and se code	Course Title	Teaching Department	- Theory Lecture	Tutorial	e Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
ł	1	PCC	18EC61	Digital Communication		3	2		03	40	60	100	4
	2	PCC	18EC62	Embedded Systems		3	2		03	40	60	100	4
ł	3	PCC	18EC63	Microwave and Antennas		3	2		03	40	60	100	4
	4	PEC	18XX64X	Professional Elective -1		3			03	40	60	100	3
ł	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
ł	7	PCC	18ECL67	Communication Laboratory			2	2	03	40	60	100	2
t	8	MP	18ECMP68	Mini-project				2	03	40	60	100	2
T	9	Internship		Internship	To be carried out	during the v	acation/s	of VI and V	/II semest	ers and /o	or VII and	VIII sen	nesters.
T		L			TOTAL	15	10	6.	24	320	480	800	24
		A State of the		C: Professional Elective, OE: Open I	Elective, MP: Mini-pro Professional Elective								
L		rse code unde	er 18XX64X	Course Title	the second second		-						
	18EC6			Operating System	and the second second			The second second					
L	18EC6	542		Artificial Neural Networks			The second	-	-				
	18EC6	543	and the second second	Data Structures using C++	and the second second			1000					
	18EC6	544		Digital System Design Using Verile	og	Section 2.	and the second						
	18EC6	545		Nanoelectronics	a surger the surger	-							
	18EC6	546		Python Application Programming							۸	1.22.21	and have a

Maharaja Institute of Technology Mysore Belawadi, Maguvanahalli Post Srirangapatna Taiuk Manoya District - 571477



OPEN E	LECTIVE 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. Principat Maharaja Institute of Technology Mys



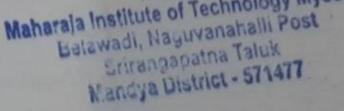
Belawadi,

Mandya District - 571477

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 Halawadi, Makuyanahalii Post





Satellite Communication		2	18EC732
			18EC/31
		Marrie a	1000000
Course Title		code under 18XX73X	Course code
essional Elective.	core. PEC: Professional	Note: PCC: Professional	Note: P
Internship	:	dmennamb	
Internation		Internchin	0
ct	18ECP78	Project	8
VLSI Laboratory	18ECL77	PCC	7
puter Net	18ECL76	PCC	6
Open Elective -B	18XX75X	OEC	5
Professional Elective - 3	18XX74X	PEC	4.
Professional Elective - 2	18XX73X	PEC	3
VLSI Design	18EC72	PCC	2
Computer Networks	18EC71	PCC	1
Course Title	e and c code	Course and Course code	SI. No
Communication Engineering	Electronics & Comn	B.E:	Programme:

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18EC734

DSP Algorithms & Architecture ARAVA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2018 – 19 ed Education (OBE) and Choice Based Credit System (CBCS) ctive from the academic year 2018 - 19) **Professional Elective - 2** VII SEMESTER ٠ (If not completed during the vacation of VI and VIIduring the vacation of VII and VIII semesters)TOTAL15040621 Teaching Department Theory **Teaching Hours** 1 1 Lecture 1 1 NNII 1 1 Tutorial 1 Practical/ NNNIIIII P Drawing **Duration** in 03 03 03 03 03 03 hours semesters, Maharaja Institute of Technology I Belawadi, Naguvanahalii Po Srirangopatna Taluk Mandya District - 571477 

 Examination

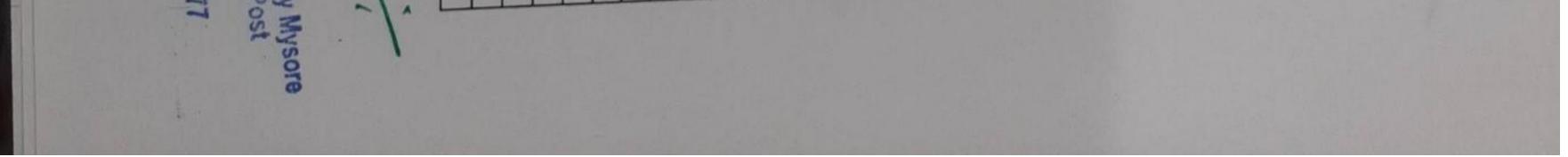
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 100 4 4 4 4 4 4 4 CIE Marks 38 it shall be carried out 420 rincipal 100 100 100 100 Total Marks 800 Credits 3



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VISVESVARAYA

Course code under 18XX74X	Course Title
18EC741	IOT & Wireless Sensor Network
18EC742	Automotive Electronice
18EC743	Multimedia Communication
18EC744	Cryptography
18EC745	Machine Learning with Python
18EC751	Communication Theory
18EC752	Neural Networks
18EC753	ARM Embedded Systems
18EC754	Digital Systems Design using
Students can select	Students can select any one of the open electives offer
Please refer to the	(Please refer to the list of open electives under 18XX7)
	<ul> <li>The candidate has studied the come counce during the come counce of the come counce during the come counce during the come counce during the co</li></ul>
i ne candidate ha	a studied the salite course during

The syllabus content of open elective is similar to t

Project work: Registration to electives shall be documented under t ۰ A similar course, under any category, is prescribed

students from different disciplines, the project studen CIE procedure for Project Work Phase - 1: assigned to an individual student or to a group having Based on the ability/abilities of the student/s and rec

college. Participation of external guide/s, if any, is desi (ii) Interdisciplinary: Continuous Internal Evaluatio ratio 50:25:25.The marks awarded for the Project repo Literature Survey, Problem identification, Objectives The CIE marks awarded for the project work phase faculty members of the Department, one of whom sha (i) Single discipline: The CIE marks shall be awarded irable. n shall be group wise at the college level with the participation of all guides of the

Open Elective -B
VHDL
ered by other Departments except those that are offered by the parent Department 5X).
the previous semesters of the programme. hat of the Departmental core courses or professional electives. in the higher semesters of the programme.
ommendations of the mentor, a single discipline or a multidisciplinary project can be y not more than 4 students. In extraordinary cases, like the funded projects requiring It strength can be 5 or 6.
by a committee consisting of the Head of the concerned Department and two senior II be the Guide.
, shall be based on the evaluation of the project work phase -1 Report (covering and Methodology), project presentation skill and question and answer session in the port chall be the came for all the batch mates

Maharaja Institute of Belawadi, Naguvanahalli Post Mandya District - 57147 Srirangapatna Taluk Proci eus



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The 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 CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project

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. 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 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. internship shall be declared fail and shall have to complete during subsequent A University examination shall be conducted during VIII semester and the

Principal ( and )

haraja Institute of Technology Mysore Belawadi, Naguvanahalii Post Szirangapetna Tałuk Mandya District - 571477



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Biomedical Signal Processing	18EC825
Optical Communication Netwo	18EC824
Radar Engineering	18EC823
Micro Electro Mechanical Sys	18EC822
Network Security	18EC821
Course Title	Course code under 18XX82X

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Internship	18EC185	Internship	S
Technical Seminar	18ECS84	Seminar	4
Project Work Phase - 2	18ECP83	Project	-
Professional Elective - 4	18XX82X	PEC	1
Wireless and Cellular Comn	18EC81	PCC	
Course Title	Course and Course code	Cour: Cours	SI. No

**Programme: B.E: Electronics** VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAG Scheme of Teaching and Examination 2018–19 Outcome Based Education (OBE) and Choice Based Credit System

TECHNOLOGICAL UNIVERSITY, BELAGAVI

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(Effective from the academic year 2018 – 19) orks stems nunication **Professional Elective - 4** VIII SEMESTER semesters.) TOTAL Completed during the vacation/s of VI and VII semesters and /or VII and VIII Teaching Department Theory 90 Teaching Hours /Week ωw -1 1 Lecture 1 7 1 1 1 Tutorial (CBCS) Practical/ P 1 NNI 04 Drawing **Duration** in 03 03 03 15 hours Examination 40 40 100 260 40 **CIE Marks** 60 240 60 **SEE Marks** 1 100 100 100 500 **Total Marks** 100 Credits 00 W W 18 S -

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



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# Project Work

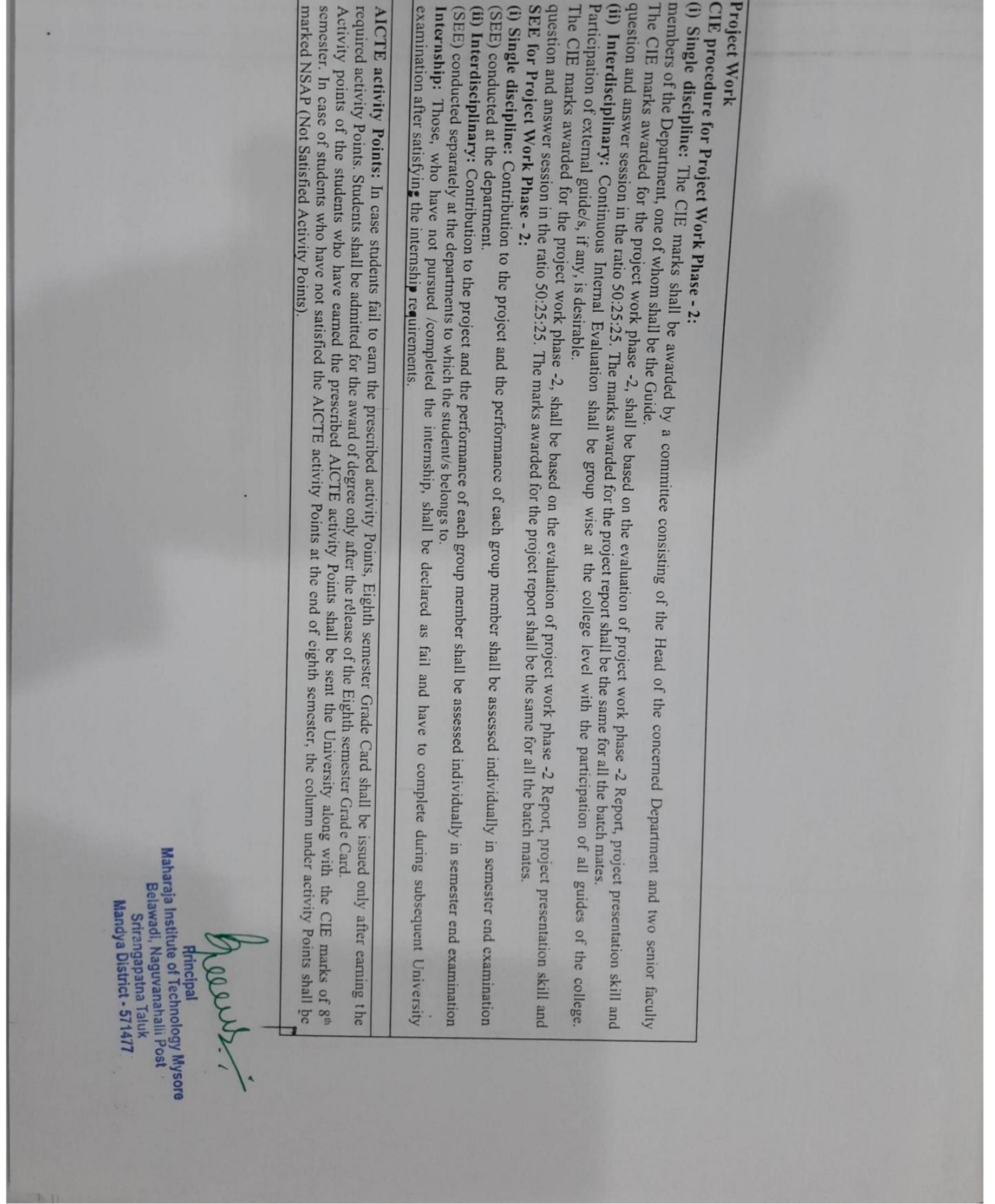
# CIE procedure for Project Work Phase - 2:

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 Participation of external guide/s, if any, is desirable.

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.

examination after satisfying the internship requirements. Internship: Those, (SEE) conducted separately at the departments to which the student/s belongs to. who have not pursued /completed the internship, shall be declared as fail and have

required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. marked NSAP (Not Satisfied Activity Points). AICTE



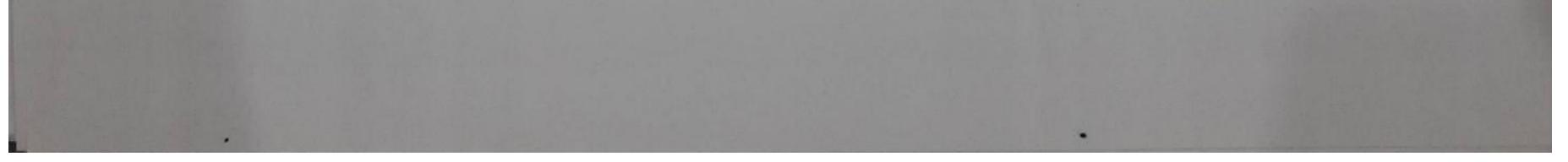
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2018 - 19)

		R			Teaching	g Hours /	Week		Examin	nation		
51. 80		irse and rse Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	der and			1	L	Т	Р					4
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	2
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	
8	PCC	18CSL38	Data Structures Laboratory	CS/IS	**	2	2	03	40	60	100	2
0	100	18KVK39	Vyavaharika Kannada (Kannada for communication)/		1	2			100			
9	HSMC	18KAK39	Aadalitha Kannada (Kannada for Administration)	HSMC	-	2					100	-1
2	TIMIC	OR	OR									
	1 Course		Constitution of India, Professional	Section 1993	1			02	40	60		
		18CPC39	Ethics and Cyber Law	the state of the second state	Exam	nination	is by obj	ective ty	and the second se		-	-
		-			17	08		24	420	480	000	1 24
				TOTAL	OR	OR	04	OR	OR	OR	900	24
					18	10	( and the second	26	360	540		
181	KVK39 Vva	avaharika Kanr	CC: Professional Core, HSMC: Human nada (Kannada for communication) is for nistration) is for students who speak, re-	or non-Kannada s	peaking, r	MC: Nor eading a	n-credit 1 nd writin	nandato ng stude	ry course nts and 1	e 18KAK	39 Aadal	itha
181	KVK39 Vva	avaharika Kann nada for Admin	hada (Kannada for communication) is for nistration) is for students who speak, re-	or non-Kannada s ad and write Kann	nada.	eading a	na writh	igineer	ing pro	grams		
18 Kar 10 (a)	NCMC	Course pre 18MATDI ory non – crea	scribed to lateral entry Diploma Additional Mathematics - I dit courses Additional Mathematics I a	or non-Kannada s ad and write Kann holders admitte Mathematics nd II prescribed for nd the classes dur	ed to III 02 or III and ing the re	semest 01 IV sem	er of Er esters re semeste	ngineer 03 spective	ing pro 40 ly, to the	grams 60 e lateral II the fo	100 entry D rmalities	0 iplom
18 Kar 10 (a) hol cou pre ser (b) La	NCMC NCMC The mandat ders admitted arse and appresented CIE nester/s to a These Cou Conternal entrant the First Y	Course pre 18MATDI ory non – crea ed to III semes pear for the Un marks, he/she appear for SEE rses shall not b Courses pres students from ear Engineerin	scribed to lateral entry Diploma Additional Mathematics - I dit courses Additional Mathematics I and ter of BE/B.Tech. programs, shall attentiversity examination. In case, any sture is shall be deemed to have secured F gram considered for vertical progression, b cribed to lateral entry B. Sc degree B.Sc. Stream, shall clear the non-cred ag Programme. These Courses shall n	or non-Kannada s ad and write Kann holders admitte Mathematics nd II prescribed for nd the classes dur dent fails to regist rade. In such a cast out completion of t ee holders admi	ed to III 02 or III and ing the re- ter for the se, the stu- he courses itted to I ering Gra	semest 01 IV sem spective e said co dents ha s shall b II seme phics an	er of Er esters re semeste ourse/ fa ve to ful e manda ester of d Eleme	ngineer 03 spective rs to con ils to sen fill the r tory for Engine nts of Ci	ing pro 40 ly, to the nplete a cure the requirem the awar eering p	grams 60 e lateral II the fo minimu ents dur ed of deg program	100 entry D ormalities in 40 % ring subs gree ms and Mee	0 iplon of the seque
18 Kan 10 (a) <sup>'</sup> hol cot pre ser (b) La of ma	NCMC NCMC The mandat ders admitte arse and appresented CIE nester/s to a These Cou C teral entrant the First Y andatory for	Course pre 18MATDI ory non – crea ed to III semes pear for the Un marks, he/she appear for SEE rses shall not b Courses pres t students from ear Engineerin the award of d	scribed to lateral entry Diploma Additional Mathematics - I dit courses Additional Mathematics I and ter of BE/B.Tech. programs, shall attentiversity examination. In case, any sture is shall be deemed to have secured F gram considered for vertical progression, b cribed to lateral entry B. Sc degree B.Sc. Stream, shall clear the non-cred ag Programme. These Courses shall n	holders admitte Mathematics Mathematics Mathematics and II prescribed for and the classes dur dent fails to regist rade. In such a case out completion of t ee holders admi lit courses Engined of be considered E/B.Tech./B. Pla	ed to III 02 or III and ing the re- iter for the se, the stu he courses itted to I ering Gra- for vertic	semest 01 IV sem spective e said co dents ha s shall b II seme phics an cal prog	er of Er esters re semeste ourse/ fa ve to ful e manda ester of d Eleme ression,	ngineer 03 spective rs to con ils to sen fill the r tory for t Engine nts of Ci but com	ing pro 40 ly, to the plete a cure the equirem the awar ering p vil Engi pletion more de	e lateral ll the forminimu ents dur of of deg orogram ineering of the c	100 entry D ormalities in 40 % ring subs ring subs ring subs rec <b>ns</b> and Med ourses s	0 iplon of th sequent chanic hall th

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



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		Ou	VISVESVARAYA TECHNO Scheme of Teachin tcome Based Education (OBE) (Effective from t	and Choice	Based (	Credit	Syster	m (CI	BCS)			
TV	SEMESTE	D	(Effective from e		Teaching	Hours	/Week		Exan	nination	-	-
SI. No	Co	urse and orse Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р		10	60	100	3
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2		03	40	60	100	4
2	PCC	18CS42	Design and Analysis of	CS/IS	3	2		03			100	2
3	PCC	18CS43	Algorithms Operating Systems	CS/IS	3	0		03	40	60	100	3
4	PCC	18SC44	Microcontroller and Embedded	CS/IS	3	0		03	40	60	100	-
-	000		Systems	CE /15	2	0		03	40	60	100	3
5	PCC PCC	18CS45 18CS46	Object Oriented Concepts Data Communication	CS/IS 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
		18KVK49	Vyavaharika Kannada (Kannada for communication)/			2			100	-		
9	HSMC	18KAK49	Aadalitha Kannada (Kannada for Administration)	HSMC							100	1
		OR	OR Constitution of India, Professional		1		-	02	40	60		
		18CPC39	Ethics and Cyber Law		Exam		is by obje		-		1-1-1	1.0
-		1000			17	08		24	420	480		
Note	BSC: Bas	sic Science, PC	C: Professional Core, HSMC: Human	TOTAL ity and Social Scie	OR 18 ence, NCM	OR 10 10 10	-credit m	OR 26 nandator	OR 360 y course	OR 540 8KAK4	900 9 Aadali	24 tha
8K	VK49 Vya ada (Kann	vaharika Kann ada for Admin	CC: Professional Core, HSMC: Human ada (Kannada for communication) is for istration) is for students who speak, rea	ity and Social Scie or non-Kannada sp ad and write Kann	18 ence, NCM beaking, re ada.	10 AC: Non cading an	-credit m nd writin	26 nandator g studen	360 y course its and 1	540 8KAK4		
18K	VK49 Vya ada (Kann	vaharika Kann ada for Admin	ada (Kannada for communication) is for istration) is for students who speak, reastration is for students who speak are seribled to lateral entry Diploma l	ity and Social Scie or non-Kannada sp ad and write Kann	18 ence, NCM beaking, re ada.	10 AC: Non cading an	-credit m nd writin	26 nandator g studen	360 y course its and 1	540 8KAK4		
a)Tholde cours b) T	VK49 Vya ada (Kann NCMC NCMC ne mandato ers admitted ic and appe ribed CIE ster/s to ap hese Cours Co	vaharika Kann ada for Admin Course pres 18MATDIP ry non – credi d to III semest ear for the Uni marks, he/she pear for SEE. es shall not be ourses presc	ada (Kannada for communication) is for istration) is for students who speak, reast cribed to lateral entry Diploma I 41 Additional Mathematics - II it courses Additional Mathematics I and er of BE/B.Tech programs, shall attentiversity examination. In case, any studies shall be deemed to have secured F gring considered for vertical progression, but ribed to lateral entry B. Sc degree	ity and Social Scie or non-Kannada sp ad and write Kann nolders admitte Mathematics Mathematics d the classes duri dent fails to regist rade. In such a cas at completion of the bolders admit	18 ence, NCM beaking, reada. d to III s 02 or III and ng the res er for the se, the stu- ne courses tted to II	10 AC: Non ading an emeste 01 IV seme pective said co ident ha shall be I seme	esters res semester ve to ful emandate ster of	26 nandator g studen gineeri 03 gineeri 03 sto con ls to sec fil the re ory for t Engine	360 y course its and 1 ng pro 40 y, to the oplete al cure the equirem he awar ering p	540 8KAK4 grams 60 e lateral ll the for minimu ents dur d of degr	9 Aadali 100 entry Dimalities m 40 % ing subs ree ns	0 ploma of the equent
a)Tholde cours bresc eme b) T	VK49 Vya ada (Kann NCMC NCMC ne mandato ers admitted se and appe ribed CIE ster/s to ap hese Cours Co TE activity	vaharika Kann ada for Admin Course pres 18MATDIP 18MATDIP ry non – credi d to III semest ear for the Uni marks, he/she pear for SEE. es shall not be urses presc v Points: In ca	ada (Kannada for communication) is for istration) is for students who speak, reasonal cribed to lateral entry Diploma la 41 Additional Mathematics - II t courses Additional Mathematics I and er of BE/B.Tech programs, shall attentiversity examination. In case, any studies shall be deemed to have secured F gramma and the secured for vertical progression, but	ity and Social Scie or non-Kannada sp ad and write Kann nolders admitte Mathematics dathematics dathe classes duri dent fails to regist rade. In such a cas at completion of the e holders admit activity Points, E	18 ence, NCM beaking, reada. d to III s 02 or III and ng the res ter for the se, the stu- ne courses tted to II ighth sem	10 AC: Non ading an emeste 01 IV seme pective said co ident ha shall be ishall be ishall be	esters ressemester ourse/ fai ve to ful emandate ster of I rade Car	26 nandator g studen gineeri 03 gineeri 03 sto con ls to sec fil the re ory for t Engine d shall t	360 y course its and 1 ng pro 40 y, to the nplete al cure the equirem he awar ering por be issued	540 8KAK4 grams 60 e lateral ll the for minimu ents dur d of degr orogram d only af	9 Aadali 100 entry Dimalities m 40 % ing subs ree ns	0 ploma of the equent



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V SEM	MESTER		ISVESVARAYA TECHNOL Scheme of Teaching ome Based Education (OBE) : (Effective from th	and Examir and Choice B	ation 20 ased Cr	018 - edit	- 19 Syster					
					the second s	hing H Week						
SI. No		irse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р	Q	0	S	F	
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
	and the second s					and the second se	A Real Property lies and the lies of the l			the second s		A REAL PROPERTY AND INCOME.

	1	and a second second	Civil Engineering Board]				-31.3			
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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 Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



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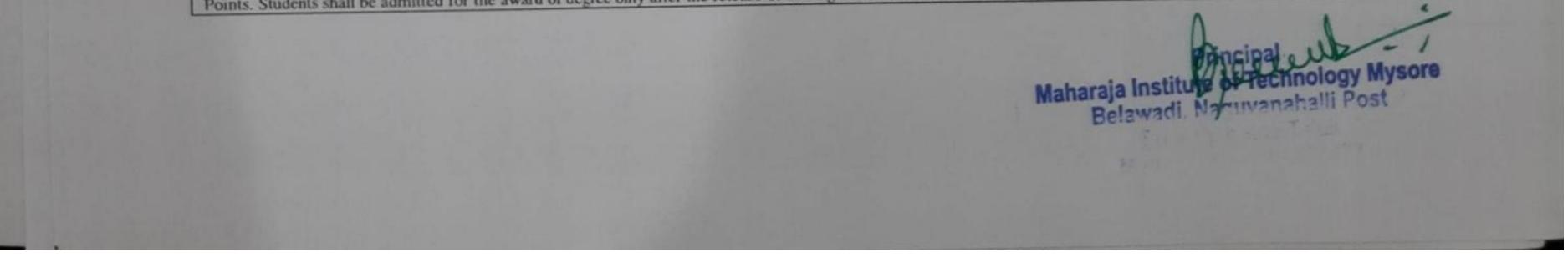
										5	_	
		VI	SVESVARAYA TECHNOLO Scheme of Teaching a me Based Education (OBE) an (Effective from the a	GICAL Und Exam	UNIVE ination Based	RSITY 2018 Credit	, BELA – 19 t System	GAVI n (CB	CS)			
		Outco	me Based Education (OBE) and (Effective from the a	cademic	year 20	18-12	1		Exami	nation		
	-		(Line		Teachi	ng Hours	/week	-	2	rks	arks	redits
SI.	MESTER	urse and	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration ir hours	CIE Mar	SEE Ma	Total M	-5 4
No	Co	urse code			L	Т	Р	03	40	60	100	4
				CS/IS	3	2		03	40	<u>60</u> 60	100	4
1	PCC	181561	File Structures Software Testing	CS/IS	3	2		03	40	60	100	3
2	PCC	181S62 18CS63	Web Technology and its applications	CS/IS CS/IS	3			03	40	60	100	2
3	PCC	18CS64X	Professional Elective -1	CS/IS	3		2	03	40	60 60	100	2
5	OEC	18CS65X 18ISL66	Open Elective –A Software Testing Laboratory	CS/IS CS/IS		2	2	03	40		100	2
6	PCC PCC	18ISL67	File Structures Laboratory with film				2	03	40	60	100	
		181SL07 18CSMP68	Mobile Application Development	CS/IS (To be ca	-ind out (	luring the	e					-
8	MP	180311100		(To be ca intervenin	ng vacatio	ns of VI	and VII			100	800	24
9	INT		Internship	semesters	s)	10	06	24	320	480	800	
-	and a	under18XX64X	Course Title	sional Electi								
Cou	urse code 18	CS641	Data Mining and Data Warehousing Object Oriented Modelling and Des	ign								
		CS642	Cloud Computing and its Applicate	ons								
		CS643 CS644	Advanced JAVA and J2EE									
-	15	8IS645	Open Elective –A	(Not for CS	E / ISE Pro	ograms)			June			
E	1.		Mobile Application Development	Algorithms								
		8CS651	Mobile Applied Data Structures and									
	18	8CS652	Introduction to Data Structures and Programming in JAVA									1.1.1.1.1.1.1
	18	8CS652	Introduction to Data Structures and Programming in JAVA			en electiv	ves under 18	CS65X).				
Sel •	18 11 11 11 11 11 11 11 11 11 11 11 11 1	8CS652 8CS653 8CS654 elect any one of the n open elective is r date has studied the	Introduction to Data Structures and Programming in JAVA Introduction to Operating System e open electives offered by any Department(P not allowed provided, e same course during the previous semesters of elective is similar to that of Departmental con-	lease refer to the program	the list of op me. professional	electives.	ves under 18	CS65X).				
Sel • • Re Mi	18 11 18 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	8CS652 8CS653 8CS654 elect any one of the open elective is to date has studied the ous content of oper course, under any o electives shall be work: Based on to	Introduction to Data Structures and Programming in JAVA Introduction to Operating System e open electives offered by any Department(P not allowed provided, e same course during the previous semesters of elective is similar to that of Departmental con- category, is prescribed in the higher semesters e documented under the guidance of Programm the ability/abilities of the student/s and recomm- t or to a group having not more than 4 student	lease refer to the program re courses or p of the program ne Coordinator nendations of t s.	the list of op mc. professional mme. r/ Adviser/N the mentor,	electives. Aentor. a single d	iscipline or	a multidis	ciplinary	Mini- pro	oject can b ers of the	e
Sel • • • Re Mi ass Cl (i) D( sk (ii	18 11 18 19 19 19 19 19 19 19 19 19 19 19 19 19	8CS652 8CS653 8CS654 elect any one of the n open elective is red date has studied the ous content of oper course, under any o electives shall be work: Based on the n individual studer one of whom shall stion and answer se iplinary: Continu	Introduction to Data Structures and Programming in JAVA Introduction to Operating System e open electives offered by any Department(P not allowed provided, e same course during the previous semesters of elective is similar to that of Departmental con- category, is prescribed in the higher semesters	lease refer to the program re courses or particle courses or particle coordinator nendations of the mendations of the s. ting of the Heat Mini-project d for the project the college levert, project press	the list of op me. professional mme. r/ Adviser/M the mentor, ad of the con work, shall ect report sh vel with the sentation sk	electives. <u>Aentor</u> . a single d neerned D be based all be the participat ill and que	iscipline or Department a on the evalu same for all tion of all th estion and a	a multidis and two set tation of pi the batch e guides o nswer sess	ciplinary nior facul roject rep mates. f the colle tion in the	ege. The C ratio 50:	CIE marks 25:25.The	ation marks



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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)

					Teachin	ng Hours	Week		Exami	ination	_	
0		se and se code	Course Title	Teaching Department	Theory Lecture	H Tutorial	- Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	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
0	a ferral statements			(If not con	npleted du	iring the	vacation	of VI and	d VII sci	mesters,	it has to	be
8	INT		Internship	carried out	t during th	ne interv	ening vaca	ations of	VII and	1 VIII se	mesters	
				TOTAL	17		04	18	340	360	700	2
ou	rse code unde 18CS7		Course Title Software Architecture and Design Pat	terns								
	18CS7		High Performance Computing								-	
	18CS7	33	Advanced Computer Architectures								-	
	18CS7	34	User Interface Design					1.000				
			Professio	nal Elective	s - 3	2	and the second					
Cou	rse code und	er 18CS74X	Course Title									
	18CS7	/41	Digital Image Processing	_								
	18CS7		Network management									
	18CS		Natural Language Processing									
	18CS		Cryptography Robotic Process Automation Design	& Developm	nent	-						
	18CS	145	Open Elective -B (1	Not for CSE	/ ISE Prog	grams)						
-	18CS	751	Introduction to Big Data Analytics									-
-	18CS		Python Application Programming						_			
	18CS		Introduction to Artificial Intelligence						-			-
	18CS	754	Introduction to Dot Net framework for	or Applicatio	on Develo	pment						
Sel • • Re	ection of an ope The candidate The syllabus of A similar cours gistration to ele	en elective is not has studied the sa ontent of open ele se, under any cate ctives shall be do	pen electives offered by any Department (Ple allowed provided, ame course during the previous semesters of t ective is similar to that of Departmental core egory, is prescribed in the higher semesters of cumented under the guidance of Programme	he programme courses or pro f the programme Coordinator/	e. fessional el ne. Adviser/Me	ectives.						
ind stu CI (i) Do	dent strength ca E procedure for Single discipling partment, one co overing Literatur arks awarded for ) Interdiscipling ide/s, if any, is	or to a group hav in be 5 or 6. or Project Work ne: The CIE mark of whom shall be re Survey, Proble r the Project repo ary: Continuous desirable. The CI	/abilities of the student/s and recommendation ring not more than 4 students. In extraordinar <b>Phase - 1:</b> ks shall be awarded by a committee consisting the Guide. The CIE marks awarded for the pro- em identification, Objectives and Methodolog ort shall be the same for all the batch mates. Internal Evaluation shall be group wise at the E marks awarded for the project work phase on in the ratio 50:25:25. The marks awarded for ted to III year of BE/B. Tech shall have to und	g of the Head roject work ph gy), project pre e college level -1, shall be ba for the project	of the conce ase -1, shal esentation sl with the pa sed on the e report shall	erned De I be based kill and g articipation valuation I be the sa	partment ar d on the eva uestion and on of all gui of project	nd two sen aluation of answer s ides of the work pha the batch	tior facult f the projection in ecollege. ise -1 Rep mates. ion of VI	y membe ect work ( the ratio Participat ort, proje and VII a	rs of the phase -1 I 50:25:25. tion of ex ect presen	Repor The ternal tation



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VIII	SEMESTEI	R	1				av. 1. 1		Examin	ation		1
SI. No	Course and Course code				Theory Lecture	Tutorial Bu	Practical/	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	San Participa	Martin Barris			L	Т	Р	9	0	~	F	1
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	interveni VII seme	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)					60	100	3
				TOTAL			04	15	260	240	500	18

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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Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandy: District - 57





		Ou	ISVESVARAYA TECHNOLO Scheme of Teaching an tcome Based Education(OBE) : (Effective from the	d Examination and Choice B	on 2018 ased Ci	- 19 redit :	System		S)				
III S	EMEST	ER							1000			_	
					Teachin /Week	g Hour	rs		Exami	nation			
SI. No		Course and Course Code	Course Title	Teaching Department	Teaching Department	Teaching Department	Theory Lecture Tutorial Practical/ Drawing		Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
DEC				L	Т	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	Computer Aided Machine Drawing/		1	4		1000	(CLOTE) AT		1001000		
	6 PCC	18ME36B	Mechanical Measurements and Metrology		3	0		03	40	60	100	3	
7 PCC	PCC	18MEL37A or	Material Testing lab			2		03	40	60	100	2	
	1211	18MEL37B	Mechanical Measurements and		2	2	05	40	00	100			
8	PCC	18MEL38A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)			2	2	03	40	60	100	2	

	18MEL38B	Foundry, Forging and Welding lab									
	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/			2 100 100						
6 ISMC	18KAK39/49	Aadalitha Kannada (Kannada for Administration)	HSMC		2	-		100		formaliti imum 40 hts during	1
H		OR									
	1000000	Constitution of India, Professional		1			02	40	60		
	18CPC39	Ethics and Cyber Law		Exam	ination	is by ob	jective t	ype ques	tions		
1000				17	10	in the second	24	420	480		
			TOTAL	OR	OR	04	OR	OR	OR	900	24
				19	14		26	360	540		
holders	admitted to III sem	t courses Additional Mathematics I and II ester of BE/B. Tech programs, shall atten he University examination. In case, any st he/she shall be deemed to have secured F	d the classes dur udent fails to reg	ing the r gister for	espective the said	e semes l course	sters to c / fails to	secure t	all the	formaliti mum 40	es o % o
subseau	ent semester/s to a										
0 1 1 1 1 0 0 V	Courses prescril								u or uc	gree.	
	rant students from I	oed to lateral entry B. Sc degree hol	lders admitted	to III	semest	er of E	nginee	ring pr	ogram	S	

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



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		Oı	VISVESVARAYA TECHNOLO Scheme of Teaching a itcome Based Education(OBE) (Effective from the	and Choice H	Based C	redit	System	n (CBC	CS)				
IVS	SEMES	TER			Teachir	ng Hour	rs	Examination					
				C.C.S. Markey	/Week								
		Course and Course Code	Course Lille 2 =		Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits	
					L	т	Р						
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	
		18ME45A 18ME45B	Metal cutting and forming Metal Casting and Welding		3	0		03	40	60	100	3	
6	PCC	18ME46A or	Computer Aided Machine Drawing/		1	4			2211 H				
		18ME46B	Mechanical Measurements and Metrology		3	0		03	40	60	100	3	
7	PCC	18MEL47A or	Material Testing lab			-	2	03	40	60	100	2	
		18MEL47B	Mechanical Measurements and Metrology lab			2	2		40	00			
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							- 1.	A TALE		
-		Contraction of the local division of the loc						The second s			and the local division of the		

	the second s				the second s	and the second se	and the second se	the second se				
		18KVK49/49	Vyavaharika Kannada (Kannada for communication)/			-			100			
9		18KAK49/49	Aadalitha Kannada (Kannada for Administration)	HSMC		2	-	-	100		100	1
	Q		OR							and and		
	HSMC	18CPH49	Constitution of India, Professional		1 Exem			02	40	60		
			Ethics and Cyber Law			10	is by ob	24	420	480		
				TOTAL	17 OR	OR	04	OR	OR	OR	900	24
				TOTAL	19	14	04	26	360	540	500	
	11000		ويود والمتعادية والمعادية والمتحد والمتحد والم									
			ribed to lateral entry Diploma hole			-	r of En	1	-			
10	NCM	the second se		Mathematics	02	01		03	40	60	100	0
hold	ers adm	nitted to III semes	it courses Additional Mathematics I and ter of BE/B. Tech programs, shall attend	d the classes duri	ing the r	respectiv	ve semes	sters to c	omplete	all the	formalit	ies of
the c	ourse a	and appear for the	University examination. In case, any stu	udent fails to reg	ister for	the said	d course/	fails to	secure t	he mini	mum 40	% of
the p	prescrib	ed CIE marks, h	e/she shall be deemed to have secured	F grade. In such	h a case	e, the st	udent ha	ave to fi	ulfill the	require	ements d	uring
subs	equent	semester/s to appo	ear for SEE.	1.1. 64						1.61		
(b) ]	These C	ourses shall not be	e considered for vertical progression, but	completion of th	ne cours	es shall	be mand	latory to	r the aw	ard of d	egree.	-
			bed to lateral entry B. Sc degree h									
Late	ral entra	ant students from	B.Sc. Stream, shall clear the non-credit of	ourses Engineer	ing Gra	phics an	d Eleme	nts of C	ivil Engi	neering	and	
		of the First Year E			dered to	or vertic	al progre	ession, b	ut comp	letion o	I the cou	rees
shall	and the second se		ingineering Programme. These Courses s	shall not be consi			F 5					1343
	be mai	ndatory for the aw	ingineering Programme. These Courses s	shall not be consi								1303
	be mai	ndatory for the aw	ingineering Programme. These Courses s	shall not be consi			<b>f 3</b> -					
	be mar	ndatory for the aw	ingineering Programme. These Courses s	shall not be consi								

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



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SEN	IESTER	(	Education(OBE) and Cho Effective from the academ	ic year 2018 - 19)	)		000)					
					Teaching Hours /Week			Examination				
SI. No	Course and Course code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	<b>Fotal Marks</b>	Credits
1					L	Т	Р	-	0	s	T	
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	A POINT CONTRACTOR		2	2	03	40	60	100	2
8	PCC	18MEL58	Energy Conversion Lab			2	2	03	40	60	100	2
				Civil/ Environmental								
9	HSMC	18CIV59	Environmental Studies	[Paper setting: Civil Engineering Board]	1			02	40	60	100	1
		Contra President		TOTAL	18	10	04	26	360	540	900	25

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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		. Outcon	/ESVARAYA TECHN Schem <u>e of</u> Teach ne Based Education(O (Effective from	ing al	and Choic	e Based	l Credi	it System	n (CB	CS)			
VISI	EMESTER		(Effective from	in the				the second s		Exam	ination		-
SI. No	Cou	rse and rse code	Course Title		Teaching Department	Theory Lecture	Tutorial Tutor	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
			Children and Chi			L	Т	Р	03	40	60	100	4
1	PCC	18ME61	Finite Element Methods			3	2		03	40	60	100	4
2	PCC	18ME62	Design of Machine Eleme	nts II		3	2	-	03	40	60	100	-
3	PCC	18ME63	Heat Transfer			3	2	-	03	40	60	100	1.1
4	PEC	18ME64X	Professional Elective -1			3			03	40	60	100	-
5	OEC	18ME65X	Open Elective -A			3				40	60	100	2
6	PCC	18MEL66	Computer Aided Modellin	ig and			2	2	03				2
2	DCC		Analysis Lab				2	2	03	40	60	100	2
8	PCC	18MEL67	Heat Transfer Lab			and the second sec		2	03	40	60	100	r VI
8	MP	18MEMP68	Mini-project		To be carry	ied out do	ring the	vacation/s	of VI a	nd VII	semester	rs and /o	I VI
9	Internship	-	MEMP68     Mini-project     -     -     2     03     40       -     Internship     To be carried out during the vacation/s of VI and VII and VIII semesters.								the second se	800	2.
					TOTAL	15	10	06	24	320	480	300	
ours	se code under	Course Tit		-	onal Elective rse code und		Course	Title					
	8XX64X			201222	X64X						ing		
8ME			tional Machining	and the second sec	E644		Vibrati	ons and M	Noise En	gineer	ing		
8ME			on and Air conditioning	-	E645			site Mate			5.9		
8ME	043	Theory of I	elasticity	and the second sec	E646 Elective -A		Entrepre	eneurship	Develo	pinent			
The The A s Regist Anni-I Based ssigne CIE p i) Sin hember the CI nswer ii) Int the CI ession EE for ) Sing xamin i) Int xamin nterns	e candidate ha e syllabus con similar course, ration to elect project work: on the ability/ ed to an indivi- rocedure for gle discipline ers of the Dep E marks awar session in the erdisciplinar E marks awar in the ratio 5 or Mini-proje gle discipline: ation (SEE) c erdisciplinar ation (SEE) c ship: All the session and the session in the contemplication (SEE) c	s studied the sa tent of open ele under any cate ives shall be do abilities of the dual student or <b>Mini-project</b> : The CIE mark artment, one of ded for the Mine ratio 50:25:25 y: Continuous I ded for the Mine 0:25:25.The mark ct: Contribution to onducted at the y: Contribution to onducted separa students admitted d /or VII and V	to the Mini-project and the p ately at the departments to w ed to III year of BE/B. Tech /III semesters. A University of	Depart her sen e of Pro ons of the than 4 s mittee of a on the project group will he evalue erformation hich the a shall lickamin	mental core of nesters of the ogramme Coo he mentor, a students. consisting of e evaluation report shall b ise at the col uation of pro- hall be the sa nce of each g nance of each g have to under ation shall be	courses or program ordinator/ single dis the Head of project be the sam lege level ject repor me for all group mer group mer elongs to. rgo mand c conduct	r professi me. Advisor/ cipline of of the co t report, p ne for all with the t, project l the batc mber shal ember shal latory into cd during	Mentor. T a multidi oncerned I oroject pre the batch participat presentat h mates. I be asses all be asses ernship of y VIII sem	Departme sentation mates. tion of al ion skill sed indiv essed indiv	ent and n skill a l the gu and que vidually ividually ividually d the pr	two seni nd quest ides of t estion an in the se y in sen g the vac escribed	ior facult tion and the colleg nd answe emester nester en cation of credit s	ge. end d
ke-up		internship shall	ship shall be considered as a I be declared fail and shall ha										not

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		VISVI Outcom	ESVARAYA TECHNOLO Scheme of Teaching a e Based Education(OBE) (Effective from the	OGICAL U nd Examin	NIVER ation 20	SITY, 018 - 1	BELA	GAVI					
II SE	MESTER		(Effective from the	and Choice	Based	Credit	t Systen	I (CBC	CS)				
SI,					1 can 20	ng Hours	"		Exami	nation			
No	Course and Course code		Course Title	Teaching Department	Theory Lecture	Tutorial Practical/ Drawing		Duration in hours	IE Marks	SEE Marks	Total Marks	Credits	
1	PCC	18ME71	0		L	Т	Р	-	C	s	Ĥ		
2	PCC		Control Engineering		3	-		03	40	60	100	3	
-	PEC	18ME72	Computer Aided Design and		3			03	40	60	100	2	
3		18ME73X	Manufacturing X Professional Elective - 2		2							3	
4	PEC	18ME74X	Professional Elective - 2 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		3	2	2	03	40	60 60	100	3
	PCC	18MEL77	Design Lab			2		100	40	(0	100	2	
7	Project	2	Project Work Phase - 1			2	2	03	40	60	100	1	
8	Internship	-	Internship		a state of the second se	I during the vacation of VI and VII semesters, it sig the vacation of VII and VIII semesters )						be	
				TOTAL	15	04	06	18	340	360	700	20	
Com		1		sional Elective	- 2	1 .							
18X)	rse code under X73X	Course Tit		Course co under 182			rse Title						
	E731		Manufacture	18ME734		-	I Quality	- But	ement				
	E732		n and Robotics	18ME735	111 1 1 1 1 1 L	Operations Research							
1814	E733	Computati	onal Fluid Dynamics Profess	ional Elective	. 2	-			-				
	rse code under X74X	Course Tit		Course co under 182	de	Cour	rse Title						
	E741	Additive	lanufacturing	18ME744		Mec	hatronics						
	E742		ustainable Building Cooling	18ME745	Secol Un		ect Mana						
1934	E743	Theory of							TON ST.	10.000	1000		
1011	12/45	Theory of		en Elective -B	55	-		There		CAN BE			

Students can select any one of the open electives offered by other Departments expect 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 or6.

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 - I, shall be based on the evaluation of project work phase - I 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.

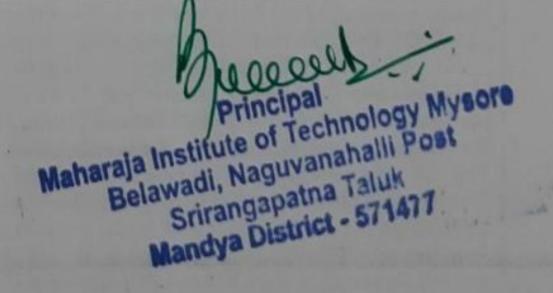
Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included 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.

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			ESVARAYA TECHNOLO Scheme of Teaching a ne Based Education(OBE) (Effective from the	and Choic	e Base	d Cree	lit Syst					
viii	SEMESTER						rs /Week		Exam	ination		
SI. No	and the second se	rse and rse code	Course Title	Teaching Department	Lecture	- Tutorial	- Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	00 Total Marks	L Credits
1	PCC	18ME81	Energy Engineering		3			03	40	60		2
2	PEC	18ME82X	Professional Elective - 4		3			03	40	60	100	8
3	Project	18MEP83	Project Work Phase - 2				2	03	40	60	100	0
4	Seminar	18MES84	Technical Seminar				2	03	100		100	1
5	Internship	18XX185	Internship		ted durin d VII se VIII sen	mesters	and /or	03	40	60	100	3
				TOTAL	06		04	15	260	240	500	18
8ME		CNC Machi Tribology	ne Tools	18ME8 18ME8				Automob Tool Desi	gn		;	
18ME			ctive Testing and Evaluation	18ME8	10110			Fracture	1	nics		
(i) Sin memb The C questi (ii) Ir Partic The C	igle discipline bers of the Dep TE marks awa on and answe terdisciplina ipation of exter TE marks awa on and answe for Project W ingle discipline nation (SEE)	artment, one of rded for the pro- r session in the ry: Continuous ernal guide/s, it rded for the pro- r session in the ork Phase - 2 e: Contribution conducted at the ry: Contribution conducted separation	rks shall be awarded by a committe of whom shall be the Guide. oject work phase -2, shall be based ratio 50:25:25. The marks awarded s Internal Evaluation shall be group f any, is desirable. oject work phase -2, shall be based ratio 50:25:25. The marks awarded is no the project and the performance	on the evaluation on the evaluation of the project of each grout the student/s	tion of p ct report ollege le tion of p ct report p memb oup mem belongs	oroject w shall be vel with oroject w shall be er shall l ber shall to.	ork phase the same the partic ork phase the same be assessed be assessed	e -2 Report for all the cipation of e -2 Report for all the ed individu	, project batch m all guid , project batch m ally in s ually in	t present ates. es of the t present ates. emester semester	ation ski college. ation ski end er end	II and
questi SEE 1 (i) Si exami (ii) In exami Intern	ship: Those,		ternship requirements.			Low Mar						





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		B.E. Mechanica Outcome Based Education (OBE) and SEMEST	ER - VI	Based Credit S	System (CBCS)	
ourse Code		OPEN ELE	CTIVE	E - A		
eaching Hours	Week (1	.:T:P)	18ME6:	5X	CIE Marks	40
redits			3:0:0		SEE Marks	60
udents can selec	t any one	of the open electives offered by other Department of programme syllabus book or VTU website v	03		Exam Hours	03
The candidate The syllabus A similar cou	has studi content of	ied the same course during the previous semester open elective is similar to that of the Department	ers of the ental core	programme. courses or profes	sional electives.	
The candidate The syllabus A similar cou	has studi content of	icd the same course during it	ers of the ental core	programme. courses or profes e programme. ordinator/ Advise	sional electives. or/Mentor.	
The candidate The syllabus A similar cou	has studi content of rse, under lectives sl	ve shall not be allowed if, ied the same course during the previous semester open elective is similar to that of the Department r any category, is prescribed in the higher seme hall be documented under the guidance of Progr	ers of the ental core stors of th ramme Co	programme. courses or profes	sional electives.	
The candidate The syllabus A similar cou Registration to e	has studi content of rse, under lectives sl	ied the same course during the previous semester open elective is similar to that of the Department	ers of the ental core	programme. courses or profes c programme. ordinator/ Advise	sional electives. or/Mentor. Course	: Title
The candidate The syllabus A similar cou tegistration to e	has studi content of rse, under lectives sl	oard and the Department offering the	ers of the ental core stors of the ramme Co	programme. courses or profes c programme. ordinator/ Advisc Course code under	sional electives. or/Mentor. Course Non-Conventional En	Title ergy Sources
The candidate The syllabus A similar cou Registration to e	ben electives studie content of arse, under lectives st	oard and the Department offering the Electives	ers of the ental core stors of the ramme Co	programme. courses or profes e programme. ordinator/ Advise Course code under 18XX65X	sional electives. or/Mentor. Course Non-Conventional En World Class Manufac	Title ergy Sources
The candidate The syllabus A similar cou Registration to e	has studi content of rse, under lectives sl	oard and the Department offering the	ers of the ental core stors of the ramme Co	programme. courses or profes e programme. ordinator/ Advise Course code under 18XX65X 18ME651	sional electives. or/Mentor. Course Non-Conventional En	: Title ergy Sources :turing ement

		Outcome Based Education (OBE) and SEMEST	ER - VI		ystem (CBCS)	
		OPEN ELE	CTIVI	E - B		
Course Code			18ME7:	5X	CIE Marks	40
Feaching Hours	Week (	(-T-P)	3:0:0		SEE Marks	60
		e of the open electives offered by other Departm	03		Exam Hours	03
The candidate The syllabus	e has stud content of	ve shall not be allowed if, ied the same course during the previous semester f open elective is similar to that of the Departme r any category, is prescribed in the higher semes	ters of th	e programme	sional electives. or/Mentor.	
The candidate The syllabus	e has stud content of	ied the same course during the previous semester	ters of th	e programme	sional electives. or/Mentor. Course	e Title
<ul><li>The candidate</li><li>The syllabus</li></ul>	e has stud content of arse, unde electives s	ied the same course during the previous semester f open elective is similar to that of the Departme r any category, is prescribed in the higher semes hall be documented under the guidance of Progr	sters of the sters	courses of profession ordinator/ Adviso Course code under	Course	
The candidate The syllabus A similar cou Registration to e	e has stud content of arse, unde electives s	ied the same course during the previous semester f open elective is similar to that of the Departme r any category, is prescribed in the higher semes hall be documented under the guidance of Progr	sters of th	e programme. ordinator/ Adviso Course	Course Energy and Environm	nent
The candidate The syllabus A similar cou Registration to e	e has stud content of arse, unde electives si	ied the same course during the previous semester f open elective is similar to that of the Department r any category, is prescribed in the higher semestic hall be documented under the guidance of Program	SI No 1	course code under 18XX75X 18ME751	Course Energy and Environm Automotive Engineer	nent
The candidate The syllabus A similar cou Registration to e	e has stud content of arse, unde electives s	ied the same course during the previous semester f open elective is similar to that of the Departme r any category, is prescribed in the higher semes hall be documented under the guidance of Progr	sters of the sters	courses of profession ordinator/ Adviso Course code under 18XX75X	Course Energy and Environm	nent ing

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



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		Category	Teaching	Teaching hours / week		Duration	Marks for	is for		
Subject Code	Title of the Subject		Lecture	Practical / Field Work / Assignment *	Total	Duration of Exam (Hours)	ΙA	Exam	-	1 Total Marks
16MBA11	Management & Organizational Behaviour	Core Course	3	2	S	3	20	08		100
16MBA12	Managerial Economics	Core Course	w	2	5	3	20	80		100
16MBA13	Accounting for Managers	Core Course	3	2	5	3	20	80		100
16MBA14	Quantitative Methods	Core Course	3	2	5	3	20	80	the second second	100
16MBA15	Marketing Management	Core Course	3	2	S	3	20	80		100
16MBA16	Managerial Communications	Core Course	J	2	5	3	20	80		100
1	Total		18	12	30		120	480		600

\* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

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## MASTER OF BUSINESS ADMINISTRATION

1

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalii Post Stirangapatna Taluk Mandya District - 571477 P 9 -



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		Category	Teaching	Feaching hours / week			Marks for	s for		
Subject Code	Title of the Subject	0	Lecture	Practical / Field Work / Assignment	Total	Duration of Exam (Hours)	IA	Exam	Total Marks	Credits
16MBA21	Human Resource Management	Core Course	3	2	S	3	20	80	100	4
16MBA22	Financial Management	Core Course	3	2	s	3	20	80	100	4
16MBA23	Research Methods	Core Course	w	2	S	3	20	80	100	4
16MBA24	Business Law and Policy	Core Course	3	2	s	s	20	08	100	4
16MBA25	Strategic Management	Core Course	3	2	S	з	20	08	100	4
16MBA26	Entrepreneurship Development	Core Course	3	2	S	3	20	80	100	4
	Total		18	12	30		120	480	000	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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	Subject Code		Category	Tea	Teaching hours / week	k		Marks for	(s for		
	ounder cone				Practical /		Duration of			Tatal	
Marketing	Finance	Human Resource		Lecture	Field Work / Assignment **	Total	Exam (Hours)	IA	Exam	Marks	Credits
16MBAMM301	16MBAFM301	16MBAHR301	Foundation	3	2	5	3	20	80	100	ω
16MBAMA202	100 minutes		Course								
10MBAMM302	16MBAFM302	16MBAHR302	Foundation Elective	3	2	5	3	20	80	100	U)
16MBAMM303	16MBAFM303	16MBAHR303	Elective	3	2	s	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	S	3	20	80	100	3
16MBAMM306	16MBAFM306	16MBAHR306	Elective	3	2	s	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
* Intern	iship will be carri	ied out by studen	ts after second	semester (	Internship will be carried out by students after second semester during vacation and the report submitted by the students will be assessed	id the rep	ort submitted h	by the stu	idents will	be a	ssessed

Industrial visit is a mandatory activity with zero credits \*\* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload. internally during the third semester. Total number of teaching hours per week is excluding internship workload.

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## III SEMESTER (Core Specialisation)

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Tajuk Mandya District - 571477 B ٢ -

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\*\* Practical /Field Work / Assignment is a part of contact Industrial visit is a mandatory activity with zero credits hours for the faculty and must be considered in the workload. Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post

Srirangapatna Taluk Mandya District - 571477

\* 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.

22	700	480	120		30	12	18				and the second of the second se
• 0	00	00	00	0	0	0	0	Industrial Visit			
4	100	50	50	-	8	8	0	Internship *		16MBAIN307	
3	100	80	20	3	S	2	• 3	Elective	16MBAMM303	16MBAHR303	16MBAFM303
3	100	80	20	3	5	2	3	Foundation Elective	16MBAMM302	16MBAHR302	T6MBAFM302
3	100	80	20	3	S	2	3	Foundation Course	16MBAMM301	16MBAHR301	16MBAFM301
3	100	80	20	3	S	. 2	3	Elective	16MBAHR303	16MBAFM303	16MBAMM303
3	100	80	20	3	S	2	3	Foundation Elective	16MBAHR302	16MBAFM302	16MBAMM302
3	100	80	20	3	S	2	3	Foundation Course	16MBAHR301	16MBAFM301	16MBAMM301
Credits	Marks	Exam	IA	Exam (Hours)	Total	Field Work / Assignment **	Lecture		HR & Marketing	Finance &HR	Marketing &Finance
	Total	NO 101	17.444	Duration of	,	Practical /	10	Category		Subject Code	
		Marks for	Mar		L	whing hours I was	To	Catanany			

Conflict & Negotiation Management	16MBAHR306	Strategic Credit Management	16MBAFM306	Supply Chain Management	16MBAMM306
Knowledge Management	16MBAHR305	Cost Management	16MBAFM305	Business Marketing	16MBAMM305
Learning & Development	16MBAHR304	Advanced Financial Management	16MBAFM304	Marketing Research	16MBAMM304
Compensation & penetitis	16MBAHR303	Investment Management	16MBAFM303	Services Marketing	16MBAMM303
Recruitment & Selection	16MBAHR302	Investment Banking & Financial Services	16MBAFM302	Retail Management	16MBAMM302
Illuusulai telationo en el	10MBAHK301	Principles & Practices of Banking	16MBAFM301	Consumer Behavior	16MBAMM301
Inductrial Relations & Legislations	Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code
Title of the Subject	nun nun	Finance Specialisation	-	Marketing Specialisation	Mark

## (Core Specialisation Subjects) III SEMESTER

## III SEMESTER (Dual Specialisation)





	Subject Code		Category	Te	Teaching hours / week	k		Mar	Marks for		
	Subject Code				Practical /		Duration of			Total	1
Marketing	Finance	Human		Lecture	Field Work /	Total	Exam	IA	Exam	Marks	Credits
		Resource	Non- and		Assignment **		(riours)				
16MBAMM401	16MBAFM401	16MBAHR401	Foundation Course	3	2	5	3	20	80	100	
16MBAMM402	16MBAFM402	16MBAHR402	Foundation	3	3	~	J	00	00	100	3
			Elective								
16MBAMM403	16MBAFM403	16MBAHR403	Elective	3	2	5	C3	20	80	100	
16MBAMM404	16MBAFM404	16MBAHR404	Foundation Course	3	2	5	3	20	80	100	ى دى
16MBAMM405	16MBAFM405	16MBAHR405	Foundation	3	2	5	3	20	80	100	دى
16MBAMM406	16MBAFM406	16MBAHR406	Elective	3	2	5	3	20	80	100	J J
	16MBAPR407		Project Work *	0	8	8	1	50	150	200	12
										008	5

\*\* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

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. WORK nation,

#### IV SEMESTER Core Specialisation)

Maharaja Institute of Technology Mysore Beter Jan Nayuranainaili Post Shrangapatha Taiuk Kandya District - STIATT

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				_			_		Т
	Marketing &Finance	6MBAMM401	16MBAMM402	16MBAMM403	16MBAFM401	16MBAFM402	16MBAFM403		
Subject Code	Finance & HR	16MBAFM401	16MBAFM402	16MBAFM403	16MBAHR401	16MBAHR402	16MBAHR403	16MBAPR407	
	HR & Marketing	16MBAHR401	16MBAHR402	16MBAHR403	16MBAMM401	16MBAMM402	16MBAMM403		
Category		Foundation Course	Foundation Elective	Elective	Foundation Course	Foundation Elective	Elective	Project Work *	
Te	Lecture	3	3	3	3	3	ы С	0	
Teaching hours / week Practical /	Field Work / Assignment **	2	2	2	2	2	2	8	
ek	Total	s	S	s	S	S	5	8	
Duration of	Exam (Hours)	3	3	3	3	3	3	1	
Marks	IA	20	20	20	20	20	20	50	
cs for	Exam	80	80	80	80	80	80	150	
Total	Marks	100	100	100	100	100	100	200	800
	Credits	3	υ	ω.	ι	ω	C C	12	30

Ma	Marketing Specialisation	H	Financial Specialisation	Hur	Human Kesource 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	16MBAHR401	Public relations
			Restructuring		no viale Custame
16MBAMM402	Integrated Marketing	16MBAFM402	Risk Management and Insurance	16MBAHR402	Workplace Ethics & Value Systems
	Communication				
16MBAMM403	E-Marketing	16MBAFM403	Tax Management	16MBAHR403	International Human Kesource Management
16MRAMM404	Strategic Brand Management	16MRAEMANA	International Financial Management	16MBAHR404	Organisation Change and Development
16MRAMM405	Rural Marketing	16MRAEM405	Financial Derivatives	16MBAHR405	Strategic Talent Management
16MBAMM406	International Marketing	16MBAFM406	Cornorate Valuation	16MBAHR406	Personal Growth & Interpersonal
	Management				Effectiveness

## (Core Specialisation Subjects) IV SEMESTER

#### (Dual Specialisation) IV SEMESTER



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\*\* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

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Subject Code	Marketing & Finance Specialisation	Marketing & Hun	Marketing & Human Resources Specialisation	Finance & H	Human Resource Specialisation
16MBAMM401	Color Man I Itle of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
T OLT MITTIC SCORES	sales Management	16MBAMM401	Sales Management	16MBAFM401	Mergers, Acquisitions & Corporate
16MRAMMAN					Restructuring
16MD AMAAAA	Integrated Marketing Communication	16MBAMM402	Integrated Marketing Communication	16MBAFM402	Risk Management and Insurance
TOWD A FLOOR	E-Marketing	16MBAMM403	E-Marketing	16MBAFM403	Tax Management
IOMBALM401	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	16MBAHR403	International Human Resource
			Management		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.
- 4 Award of Credits for various components of MBA Programme
- Allotment of marks for the subjects/papers, seminar and summer project. except Internship, for which the pattern will be 50:50 basis for 80:20 patterns of marks for external examination and internal (IA) marks respectively is to be adopted for all the subjects,

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

IA Pattern: 20 marks in each subject, comprising of 10 marks for tests and 10 marks for assignments/seminars/practical exercises/quiz/oral

exams

### **Specialisation Subjects)** IV SEMESTER

internal and external assessments respectively.

Part B shall be a *compulsory* question on Case study/ Practical problem for 20 marks (may contain a maximum of 4 sub-questions).

laharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Mandya District - 571477 Srirangapatna Taluk icipal 00 ~



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100	100	Tatal	
	6	Project Work(IV Semester)	
	18	IV Semester	
52	4	Internship (III Semester)	
	24	III Semester	11
	24	II Semester	
48	24	I Semester	I
Total Credits	Credits	Particulars	Year
	and Credits	MBA Program Structure and Credits	

# PROGRAMME OUTCOMES STUDENT WILL BE ABLE CO (POS)

institutions of importance. them to solve practical problems in business and other organizations / PO1. Acquire Sufficient theoretical knowledge and are enabled to apply

continuously employable. and critical thinking that enhances learn ability, developed for being PO2. Apply Effective communication skills with a high degree of lateral

decision making skills that reflect a high degree of social consciousness PO3. Demonstrate leadership qualities, ethically sound, enabled with

a growingly complex, economic, legal and ethical environment PO4. Recognise the need for sustained research orientation to comprehence

calculated risk taking. PO5. Possess self-sustaining entrepreneurship qualities that encourages

## SCHEME OF TEACHING AND EXAMINATION

	18MBA16	18MBA15	18MBA14	18MBA13	18MBA12	18N(BA11	Subject Code	
	Managerial Communications	Marketing Management	Business Statistics & Analytics	Accounting for Managers	Managerial Economics	Management & Organizational Behavior	Title of the Subject	
Total	Core	Core	Core	Core	Core	Core	Category	Course
1 24	4.	4	4	4	4	4	Lecture	Teaching hours week
	4 4			4			Practical Component	g hours
. 24	4	4	4	4	4	+	Total Hours	per
-	3	3	3	3	3	3	Duration - Exam hours	af
2	4	45	40	40	45	40	CIE	Marks for
240 3	40 6	60	60	60	60	66	SEE	Inr
360 600	60 100	0 100	0 100	100	100	100	Total Marks	
24	+	+	4	4	+	4	Credits	

course instructor may use an extra casefrom Harvard/Case Centre. The student cannot assume the same cases will be part of the 1. Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the

question paper.
2.One Industrial Visit per Semester is Mandatory. The Department shall insist on report submitsion by each student and shall maintain this as a documentary proof. Theformat of the report shall be prescribed by the department.
3. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level

be calculated ent level THE

			Tead	Teaching hours per week	13	of ion	Marks for	for
Subject Code	Title of the Subject	Course Category	Lecture	Practical Component	Total	Duration o Examinati Hours	CIE .	
18MBA21	Human Resource Management	Core	4		+	3	40	
18MBA22	Financial Management	Core	*	,	+	3	40	
18MBA23	Research Methodology	Core	40		+	3	古	-
18MBA24	Legal and Business Environment	Core	+		+	3	4	the second se
18MBA25	Strategic Management	Core	4	,	+	3	40	
18MBA26	Entrepreneurship Development	Core	4	,	+	3	40	
		Total	24		24		240	21

Eelawadi, Surangapatna Tauk Naguvanahalli Post te of Technology Mysore

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Mandya District - 571477

Note:

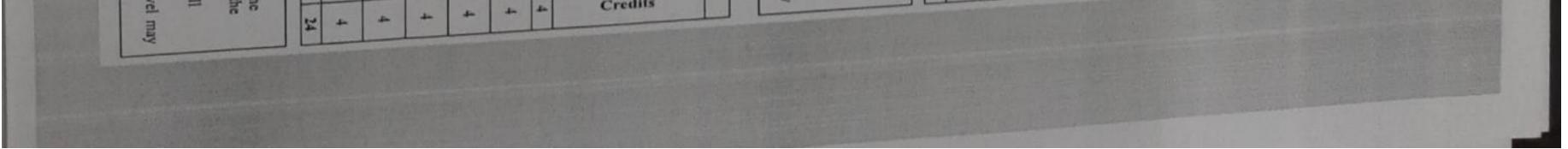
26

1.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 casefrom Harvard Case Centre. The student cannot assume the same cases will be part of the

 One Industrial Visit per Semester is Mandatory. The Department shall insist on report submi ssion by each student and shal maintain this as a documentary proof. Theformat 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 lev question paper.

be calculated

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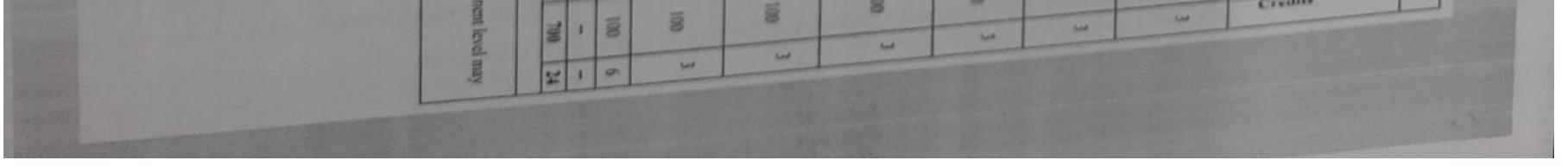
	2 Project work	1.Course instru be calculated	Note:		Industrial Visit	5	International Marketing Management	18MBAMM406	Rural Marketing	18MBAMM405	Strategic Brand Management	18MBAMM404	Social Media Marketing	18MBAMM403 Digital and	Communication	Marketing	ISMBAND402		Management	ISMBANM401	Marketing			
	Project work(Six Weeks) will be carried out after third semester and shall be evaluated	1 Course instructors are free to set the Course outcome and be calculated.				Project Work	Corporate Valuation	18MBAFM406	Financial	Management 18MBAFM405	Financial	18MBAFM404		18MBAFM403 Indirect Taxation	Insurance	Management and	ISNBAPM402	Corporate Restructuring	Acquisitions &	18MBAFM401	Finance		Subject Code	
	arried out after third	e Course outcome an				and and a second	Personal Growth & Interpersonal Effortioneess	Management ISMRAHR495	Strategic Talent	Development	Organization Change and	18MBAHR404	Human Resource	18MBAHR403	directories.	Organizational	IRMBAHR402		Public Relations	ISNIBAHR401	Human Resource			
	semester a	d map with		Total	Corr	Core	Dective	T	Dective		Dective		-	Floring		Elective			Elective		Course	e Cate	-	
	und shall	h the Progr		21 18		0	ω ω	-	<u>ب</u>		w	-	w	-	0	84	-	9	-		Fracti	ieaf	Teaching ha	
	be evalua	annic		12	1	12	1	-	1		1	-	1	-		1	+	-		6	Tota		tours .	
	sted during	Outcome		30	1	12 .	•••					t					T	-			Exam	ation o simatio ours	ut ut	
	g fourth s	subsequently		- 2	-	1	40	-	45		5	t	台	+	đ	5		8		L	CIE	£	Marks for	
	conester.	ently attain		280 420	-	60	65	-	8		S	T	8		8	0	-	8		+	SEE		#	
		innicat level may		700	1	100	100		100		100		100		100	-		10		-		Total	-	
Maha	del prese	may		24	1 4	6	~		~		3	-	1	_	-									
arcja institu																								
roje Institute of Technolog	Note: L.Course inst be calculated		Industrial Visit	18MBAPR407		Indirect Taxatio	and Insurance ISMBAFM403	Risk Management	Restructuring	Acquisitions &	18MBAFM401 Meruna	European emais	Digital and Social Madia Mada	Communication		18MBAMM402		Sales	ISMBAMM401	Finance	Marketing &		and monthly a	IV Semester (Dec
2 Project work(Six	Note: 1. Course instructors are free to se be calculated		Industrial Visit	18MBAPR407Project Work	Human Resout	ä	-	Risk Management Oreanizational	-	ons &	M401	Euriteurue emman	-	-		-		Mergers, Acaruisitione.8	AMM401 ISMBAPM401	Mill R. Steetus	Fiermon & 110	Subject Cade	(noneznerado ieno) concorre o	W Semester (Deal Count of the
2 Project work(Six Weeks) will be carried out Physical Technology Mysore The Institute of Technology Mysore	Note: 1. Course instructors are free to set the Course outcom be calculated.		Industrial Visit		Resource	in International	Leadership IXMBAHR403	18MBAHR402	-	ons &	M401 IXMBAHR401		Indirect Taxation	ANNE INCOMPANY	Risk Management	-			AMM401 ISMBAPM401	Aborton a	Fiermon & 110	Subject Cade	(uoueznenado renor) coronor o	IV Semester Theal Count Hand
2 Project work(Six Weeks) will be carried	Note: 1. Course instructors are free to set the Course outcome and map be calculated.		Industrial Visit		Resource Media Marketing	in International Digital and Social	Leadership Marketing Communication	18MBAHR402	-	ons & Towns Actualities Sales Management	M401 ISMBAHR401	Maman Resource	Indirect Taxation International	TRADACKEAN LOBORSHID	Risk Management Organizational	18MBAFM402		Mergers, Acquisitione.&	AMM401 ISMBAFM401 ISMRAHB401	Communic on 1210 1210 OR MIDTREEIng	Fiermon & 110	Anger	-	IV Semester (Deal Count Hand
2 Project work(Six Weeks) will be carried out after third semester and	re free to set the Course outcome and map with the	Total	Industrial Visit Core		Resource Media Marketing	in International Digital and Social Elector	Leadership Marketing Elective Communication	nt Oreanizational Integrated	-	ons &	M401 IXMBAHR401	Manuarread	Indirect Taxation	TENDACKENT CONDUCTING	Risk Management	18MBAFM402	Corporate	Mergers, Acquisitione.&	AMM401 ISMBAFM401 ISMRAHB401	Contract of the of Marketing	Viennou & IID	in the section of the		IV Semester (Deal Count of
2 Project work(Six Weeks) will be carried out after third semester us Plant Base with the carried out after third semester us the contract of Technology Mysors	re free to set the Course outcome and map with	24 18	Core -	Core -	Resource Media Marketing ciectiv	in International Digital and Social Electron	Leadership Marketing Communication	nt Oreanizational Integrated	-	ons & Tuous Actations Sales Management Elective	M401 IXMBAHR401	Manuar Resource	Indirect Taxation International Elective T	TENDACKENT CONDUCTING	Risk Management Organizational Elective	18MBAFM402	Corporate 3 -	Mergers, Acquisitione.&	AMM401 ISMBAFM401 ISMRAHB401	Cast In A Marketing Cast	Viene & IIII	Traching hours		IV Semester (Deal Count II)
2 Project work(Six Weeks) will be carried out after third semester and	re free to set the Course outcome and map with the	22	Core		Resource Media Marketing discusse 3	in International Digital and Social Electron	Leadership Marketing Elective Communication	NA Oreanizational Integrated		ons & Twons Actuations Sales Management Elective 3 - 3	M401 IXMBAHR401	Manuar Resource	Indirect Taxation International Elective T - 3	TRADACKIAN LONGTIND	Risk Management Organizational Elective 3 -	18MBAFM402	Corporate 3 -	Mergers, Public Relations	AMM401 ISMBAFM401 ISMRAHB401	Course of the average of the second of the s	Timore & IIII	Teaching hours		IV Semester (Deal Count of a
2 Project work(Six Weeks) will be carried out after third semester and	ire free to set the Course outcome and map with the Programme	24 18 12	Core	Core - 12	Resource Media Marketing discusse 3	in International Digital and Social Electron 1 - 3	Leadership Marketing Elective 3 T	NA Oreanizational Internated		ons & Tuous Actainens Sales Management Elective 3 -	M401 IXMBAHR401	Manuarread	Indirect Taxation International Election T - 3	TRADACKIAN LONGTIND	Risk Management Organizational Elective 3 - 3	18MBAFM402	Corporate 3	Mergers, Public Relations	AMM401 ISMBAFM401 ISMRAHB401	Last Data Last	alla alla alla alla alla alla alla all	Teaching hours		W Semester (Deal Gauge Hard
2 Project work(Six Weeks) will be carried out after third semester and	ire free to set the Course outcome and map with the Programme	18 12 Ju	Core	Core - 12	Resource Media Marketing ciecure 3	in International Digital and Social Electron 1 - 3	Leadership Marketing Elective 3 - 2	NA Oreanizational Internated		ons & Twons Actuations Sales Management Elective 3 - 3	M401 IXMBAHR401	Management 2	I Indirect Taxation International Elective T - 3 -	TENDICINE CONCENTR	Risk Management Organizational Elective 3 - 3 -	18MBAFM402	Corporate 3 - 3	Mergers, Acausinomede Public Relations	AMM401 ISMBAFM401 ISMRAHB401	Con Leso Tob Data I Cli SER	alla alla alla alla alla alla alla all	Traching hours		W Semester Must Count the st

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	Subject Code		gory	Tea	Teaching hours per week	ā			Mark	Marks for	
Marketing	Subject Code Finance	Human Resource	Course Categ	Lecture		Practical Component	Practical Component Total	STATUS AND	Total Duration of Examination	Total Duration of Examination hours	Total Duration of Examination hours CIE
I8MBAMM301 Consumer	18MBAFM301 Banking and Financial	18MBAHR301 Recruitment &	Elective	3		2	2 5		5	5 3	5 3 40
18MBAMM302	18MBAFM302	18MBAHR302									
Retail Management	Investment Munagement	HR Analytics	Elective	ω		2	2 5	1	s	5 3	5 3 40
18MBAMM303	18MBAFM303	18MBAHR303									
Services Marketing	Direct Taxation	Compensation & Reward System	Elective	•••		2	2 5		S	5 3	5 3 40
ISMBAMM304	18MBAFM304	18MBAHR304									
Marketing	Advanced	Learning &	Elective	5		2	2 5		5	5 3	5 3 40
Analytics	Management	Development									
18MBAMM305	18MBAFM305	18MBAHR305									
Business	Cost	Industrial Delations &	Elective	5		2	2 5		s	5 3	5 3 40
Marketing	Management	Legislations &									
18MBAMM306	18MBAFNI306	18MBAHR306									
Supply Chain Management	Project Appraisal Planning &	Conflict & Negotiation	Elective	w		2	2 5		5	5 3	5 3 40
	Connoi	Timin Seiterin	1000		+				>	>	~ ~ ~ ~
18MBA0S307 Org	OrganizationStudy		Core	0	-	8	8		8	8	8 - 40
Industrial Visit			Core	1	_	1	1	1	1	1	:
			Total	18		20		20 38 -	38	38 -	18 - 280

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.

 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.
 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.

maintain this as a documentary proof. Theformat of the report shall be prescribed by the department. 5.One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall

6. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated

	Ortran prosmenon			
s	Overall presentation			
5	Learning experience			
10	Financial statement analysis			
10	SWOT analysis			
	Model	100		
10	Mckensy's 7S framework and Porter's Five Force	100	Total	
	profile			
10	Understanding the Corporate Functions/Company	60	SEE Viva-Voce Examination to be conducted by the Guide	0001
	Understanding the Industry	20	Report Evaluation by the Guide	
	Communication skull	20	CIE Assessment by the Guide- Interaction with the student	1
Marks	Aspects	Marks	Particulars	-
	Rubrics for Viva voce Examination		Rubrics for Organization Study	-
	n Pauladian			

28

Total

60

aharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post

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Srirangapatna Taluk Mandya District - 571477

	Industrial Visit	18MBAOS307 Organization study	18MBAFM3(I3 Direct Taxation	18MBAFM302 Investment Management	18MBAFM301 Banking and FinancialServices	18MBAMM303 Services Marketing	18MBAMM302 Retail Management	18MBAMM301 Consumer Behavior	Marketing & Finance	
		ganization study	18MBAHR303 Compensation & Reward System	18MBAHR302 HR Analytics	18MBAHR301 Recruitment & Selection	18MBAFM303 Direct Taxation	18MBAFM302 Investment Management	18MBAFM301 Banking and FinancialServices	Finance & HR	Subject Code
			18MBAMM303 Services Marketing	18MBAMM302 Retail Management	18MBAMM301 Consumer Behavior	18MBAHR303 Compensation & Reward System	18MBAHR302 HR Analytics	18MBA11R301 Recruitment & Selection	HR & Marketing	
Tutal	Core	Corc	Elective	Elective	Elective	Elective	Elective	Elective	Course Calego	iry
18	1	1	4		ų	5	ч	3	Lecture	Tead
10	1	8	2	2	2	2	2	2	Practical Component	Teaching hours per week
38	1	8	UN	UA.	5	50	UN.	s	Tetal	1 III
-					3	3	3	3	Duration of Examination	hours
180	1	40	40	6	40	40	40	40	CIE	Marks for
420	1	00	60	60	60	60	8	60	SEE	far
700	1	100	100	100	100	100	100	00	Total Marks	
		1	-	-			4	4	Credits	

I.Each Course has a theory component of 3hrs (3credits) and a Practical component of 3hrs (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.
 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. 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. Theformat 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		<b>Rubrics for Viva voce Examination</b>	
	Particulary	Marks	Aspects	Marks
CIE	Assessment by the Guide- Interaction with the student	20	Communication skill	s
	Report Evaluation by the Guide	20	Understanding the Industry	5
SEE	Viva-Voce Examination to be conducted by the Guide and an External examiner from the Industry/Institute	60	Understanding the Corporate Functions/Company profile	10
	Total	100	Mckensy's 7S framework and Porter's Five Force Model	10
			SWOT analysis	10
			Financial statement analysis	10
			Learning experience	s
				-

Total

60



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#### SCHEME OF TEACHING AND EXAMINATION

			/ISVESVARAYA TECHNOLOGIC/ Scheme of Teaching and Ex MASTER OF BUSINESS ce Based Credit System (CBCS) ar I SEMES	ADMIN ad Outcom	s - 2020 - 21 ISTRATI	ON				
				Teaching I	Iours /Week		Exami	nation	22 4	
SL No	Course	Course Code	Course Title	Theory	Practical component	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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

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:

- 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 5hrs (3+2). For the practical component it is mandatory to maintain a record.
- 2. 20% of marks should be allocated for application oriented questions in the Semester End Examination (SEE) question paper based on practical component.
- 3. 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.
- 4. 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.
- 5. Students and course instructor/s to involve either individually or in groups to interact together to enhance the learning and application skills.
- 6. 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.

#### 7. The students shall

- (a) Gain confidence in modeling of management systems.
- (b) Work on different software/s (tools) to simulate, analyse and authenticate the output to interpret and conclude.
- (c) Involve in case studies and field visits/ field work.
- (d) Accustom with the use of standards to narrow the gap between academia and industry.

All activities should enhance student's abilities to employment and/or self-employment opportunity, management skills, statistical analysis, fiscal expertise etc.

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			SVARAYA TECHNOLOG Scheme of Teaching and MASTER OF BUSINES ased Credit System (CBCS)	S ADMII and Outc	NISTRAT	ION				
-	-	1	II SEMI		Iours /Week		Exami	nation		
SI. No	Course	Course Code	Course Title	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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
	PCC	20MBA26	Entrepreneurship & Legal Aspects	03	02	03	40	60	100	4
		T	OTAL	18	12	18	240	360	600	24

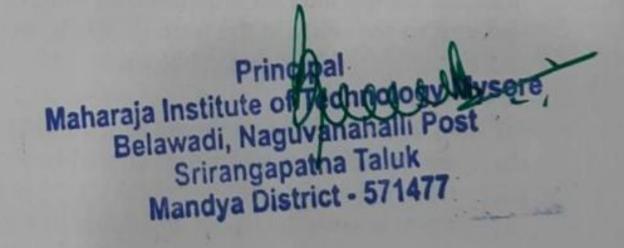
Note:

**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:

- 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.
- 4. 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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			MASTER C Based Credit Sy	CHNOLOGICAL eaching and Exam OF BUSINESS AD stem (CBCS) and ( (Core Courses and	inations – MINISTF Outcome B	2020 - 21 RATION ased Educa	ntion(O				
			Course Code			ours /Week		Examin	ation		
SI. No	Course	Marketing	Finance	Human Resource	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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
Not		TOTAL			18	20	18	280	420	700	28

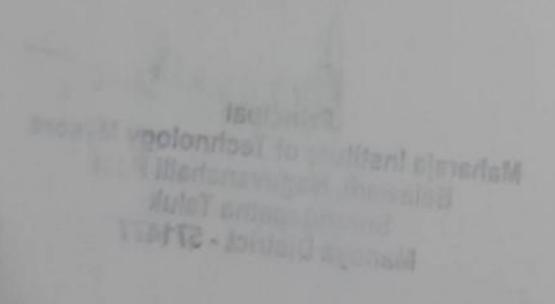
PCC: Professional Core Course, PEC: Professional Elective Course.

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:

- 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 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. 2.
- One industrial visit per Semester is mandatory. The Department shall insist on report submission by each student and shall 3. 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 4. 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.
- 5. 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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Page 4 of 123 Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477





			Scheme of To MASTER (	CHNOLOGICAL eaching and Exam OF BUSINESS AD stem (CBCS) and (	inations MINIST	– 2020 - 21 RATION					
			III SEMESTE	R (Core Courses an	d Dual Sp	ecialisation	)				
		an ada to and	Course Code		a figure accession of the second s	Hours /Week		Exami	nation		
SL No	Cou	Marketing & Finance	Finance& Human Resource	Human Resource & Marketing	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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		02		40	60	100	4
Not		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:

- 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 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. 2.
- 3. 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 4. course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases be part of the question paper.
- 6. Project (six weeks) to be carried out by students after third semester and the report submitted by the students during the fourth semester.

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



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	Schem	A TECHNOLOG e of Teaching and TER OF BUSINE	Examinations - 2	2020 - 21			
Cho	ice Based Cred	lit System (CBCS		ased Education(O	BE)		
			AESTER Courses				
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject		
20MBA301	Emerging Exponential Technologies	20MBA301	Emerging Exponential Technologies	20MBA301	Emerging Exponential Technologies		
20MBA302	Technology & Operational Strategy	20MBA302	Technology & Operational Strategy	20MBA302	Technology & Operational Strategy		
P-LANDER-		Specialisat	tion Courses				
Mark Professional El			ance lective 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		

Principal Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalii Post Brirangapatna Taiui Srirangapatna Taiui Mandya District - 57 1477

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			Scheme of To MASTER (	CHNOLOGICAL eaching and Exar OF BUSINESS Al stem (CBCS) and	ninations – DMINISTI	2020 - 21 RATION					
			IV SEN	MESTER (Speciali	sation Cour	ses)					
SI			Specialisation Course	es	Teaching Hours /Week Examination						
Course	Course	Marketing	Finance	Human Resource	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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
1	PEC	20MBAMM404	20MBAFM404	20MBAHR404	03		03	40	60	100	3
5	PEC	20MBAMM405	20MBAFM405	20MBAHR405	03	-	-03	40	60	100	3
5	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
Practic	al /Fie		nent are part of con	tact hours for the fac thing – Learning pro		st be consid	lered in	the wo	rkload	:	
Note:	Fach	Course has a theor	v component of 3hrs	(3credits). The Time- ation oriented question	Table allotme	ent for each Question Pa	course s per, base	hould b ed on pr	e 3hrs. actical	compor	nent.

Principal Iaharaja Institute of Technology Mysore Balawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477

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			MASTER C Based Credit Sy	CHNOLOGICAL eaching and Exam OF BUSINESS AI stem (CBCS) and EMESTER(Dual Sp	MINISTE Outcome B	2020 - 21 RATION					
		Markette	Subject Code		Teaching H			Exami	nation		_
SI. No	Course	Marketing & Finance	Finance& Human Resource	Human Resource & Marketing	Theory	Practical Component	Duration in hours	IE Marks	SEE Marks	Total Marks	Credits
1	PEC	20MBAMM401	20MBAFM401	20MBAHR401	02	~ 0		C			
2	PEC	20MBAMM402	20MBAFM402	20MBAHR401 20MBAHR402	03	-	03	40	60	100	3
3	PEC	20MBAMM403	20MBAFM402	20MBAHR402 20MBAHR403	03	-	03	40	60	100	3
4	PEC	20MBAFM401	20MBAHR401		03	-	03	40	60	100	3
5	PEC	20MBAFM402	20MBAHR401 20MBAHR402	20MBAMM401	03	-	03	40	60	100	3
6	PEC	20MBAFM403		20MBAMM402	03	-	03	40	60	100	3
7	PCC	20MBAPR403	20MBAHR403	20MBAMM403	03	-	03	40	60	100	3
			20MBAPR407	20MBAPR407	-	12	-	40	60	100	6
		TOTAL			18	12	18	280	420	700	24

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. 1.
- 20% of marks should be allocated for application oriented questions in the SEE Question Paper, based on practical component. 2.

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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 (Specialization Courses)

Marketing S	Specialization	Financial S	pecialization	Human Resou	rce 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

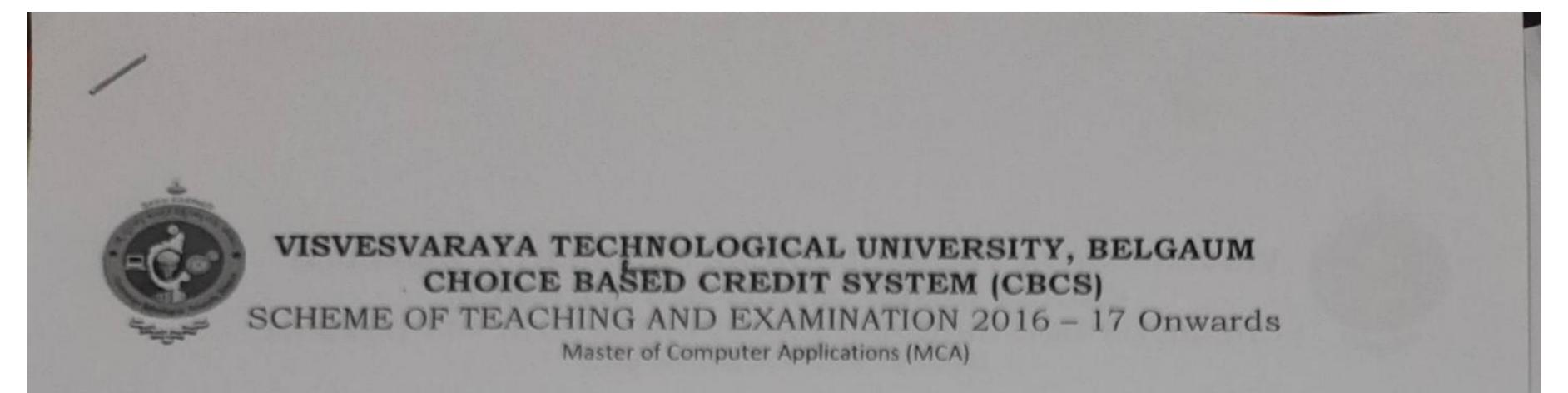
#### **Programme Outcomes (POs)**

- 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.

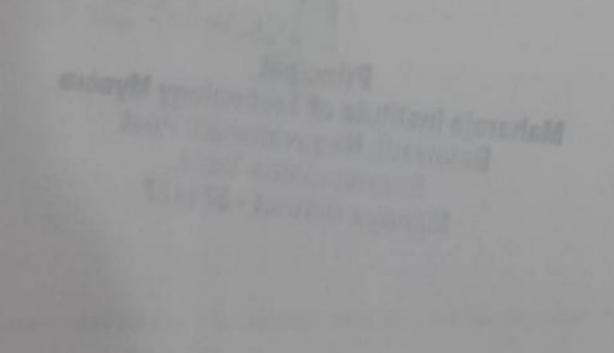
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I Semes	ster					CRED	T BASED	
Furbland		1	eaching urs/week	Duratio	1 1 1 1 1	arks or	Total	COLOU
Subject Code	Name of the Subject	Lectur e	Practical / Assignmen t	n of Exam in Hours	CIE	SEE	Mark s	CREDIT
16MCA1 1	Data structures using C	4	**	3	20	80	100	4
16MCA1 2	Unix Programming	4		3	20	80	100	4
16MCA1 3	Web Technologies	4	**	3	20	80	100	4
16MCA1 4	Computer Organization	4		3	20	80	100	4
16MCA1 5	Discrete Mathematical Structures	4		3	20	80	100	4
16MCA1 6	Data structures using CLaboratory		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA1 7	UnixProgramming Laboratory		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
LGMCA1 8	Web ProgrammingLaborator y		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
	Total	20	09	24	16 0	64 0	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)

II Semest	ter	ale sul 3	CREDIT BASI	ED				
Subject		Teachin	Teaching hours/week		Marks for		Total	CREDITS
Code	Name of the Subject	Lecture	Practical / Assignment	of Exam in Hours	CIE	SEE	Marks	
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	OperatingSystems	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	DBMSLaboratory		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
	Total	20	09	24	160	640	800	26

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



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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)

Subject	Name		Teachin	g hours/week	Duration	Mar	ks for	Total		
Code	Name of t Subject		Lecture	Practical / Assignment	of Exam in Hours	CIE	SEE	Marks	CREDITS	
16MCA31	Computer Networks	2-3	4	**	3	20	80	100	4	
16MCA32	Java Programmin	g	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	g		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	
	1	otal	19	09	24	160	640	800	25	
				Elective- 1	et dans lit					
6MCA351	Inte	ellectu	al Property	y Rights						
6MCA352 Enterpri			rise Resource Planning(ERP)							
6MCA353	MIS	5 & E-0	2-Commerce							
6MCA354	Cyb	er Sec	urity							

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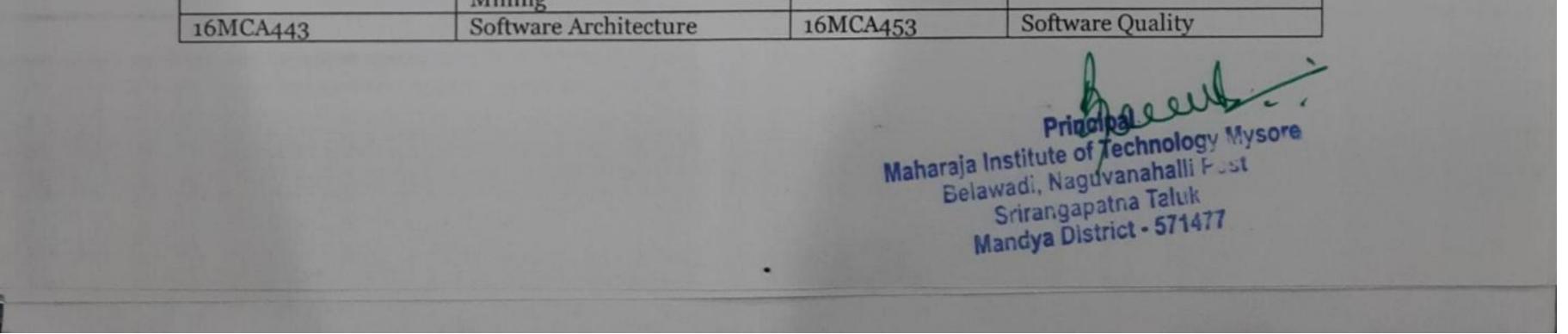


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#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2016 - 17 Onwards

Master of Computer Applications (MCA)

IV Sem	nester					CRED	DIT BAS	ED
		Teaching	hours/week	Duratio	Ma	rks for	Total	
Subject Code	Name of the Subject	Lecture	Practical / Assignmen t	n of Exam in Hours	CIE	SEE	Mark	CREDIT S
16MCA4 1	Advanced Java Programming	4		3	20	80	100	4
16MCA4 2	Advanced Web Programming	4		3	20	80	100	4
16MCA4 3	Software Testing and Practices	4		3	20	80	100	4
16MCA4 4	Elective-2	3		3	20	80	100	3
16MCA4 5	Elective-3	3		3	20	80	100	3
16MCA4 6	Advanced Java Programming Laboratory		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA4 7	Advanced Web ProgrammingLaborat ory		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA4 8	Software Testing Laboratory		3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA4 9	Seminar		2		50		50	1
-	Tota	18	11	24	21 0	640	850	25
Mysore	Elective -2	Mahara			Ele	ctive-3		
16MCA44	Networ		16MC		ar	nd Mobil	communi e Techno	
16MCA44	12 Data W Mining	arehousing and	Data 16MC	A452		-	analytics	
16MCA44		e Architecture	16MC	A453	S	oftware (	Quality	



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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)

16MCA444			Management
10MCA444	Cryptography and Network security	16MCA454	Principles of User Interface Design

V Seme	ster			CREI	DIT B	ASED		
Subject	Name of the Subject		hours/week	Duration		arks for	Total	CREDIT
Code	wante of the Subject	Lecture	Practical / Assignment	of Exam in Hours	CIE	SEE	Marks	CREDITS
16MCA51	Object-Oriented Modeling and Design Patterns	4 A		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			T. S. Cont	Elect	tive-5		A.S. Mar
6MCA541	MCA541 Web2.0 and Rich Internet.		16MCA	551 Softv	vare D	efined	Network	S
5MCA542 Cloud Computing			16MCA	552 Inter	net of	Things	s(IoT)	
MCA543 Artificial Intelligence			16MCA	553 Servi	ce Ori	ented A	Architect	ure
MCA544	Storage Area Networks		16MCA	CALL CALLS	vare P ageme	roject nt		

#### 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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#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2016 – 17 Onwards Master of Computer Applications (MCA)

- 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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#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2016 – 17 Onwards Master of Computer Applications (MCA)

VI Semest	er				CRED	DIT BAS	ED
			Evaluatio	n			
Subject	Name of the	Inter	nal	External			C
Code	Subject	Presentation	Report Evaluation	Dissertation Evaluation	Viva	Total	Credits
16MCA61	Internship	50	50	-	-	100	02
16MCA62	Project Work	75	5	125	100	300	20
٦	otal	17	5	125	100	400	22

#### Grand Total (I to VI Semesters): 4500 Marks : 150 Credits

#### <u>Guidelines:</u> 16MCA61: Internship

- The students shall undergo internship for 6 weeks during the vacation immediately after the 5<sup>th</sup> 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

- Synopsis of the project must be submitted before the end of the first month of 6th semester
- The synopsis of the project must include:
  - 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

- 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.
  - 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) AndChoice Based Credit System (CBCS) Scheme Scheme of Teaching and Examination – 2018-19 Master of Computer Applications

#### I SEMESTER

- 1		1		Tear	hing Hours /	Week		Exami	nation		1. 2. 19
SL No	Course Code	Title	Teaching Department	Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
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			Practic	: 15hours al: 09 hours truction: 03h	ours	480	320	800	21

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#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Under Outcome Based Education (OBE) AndChoice Based Credit System (CBCS) Scheme Scheme of Teaching and Examination – 2018-19 Master of Computer Applications

- 1		the second s		Teac	hing Hours /	Week		Exami	nation		
SL No	Course Code	Title	Teaching Department	Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
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
0	18MCA29	Mini Project	MCA	-	02	02	03	60	40	100	02
		TOTAL			Practic	al: 11 hours ruction: 05 h	ours	540	360	900	23

#### **H SEMESTER**

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#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Under Outcome Based Education (OBE) AndChoice Based Credit System (CBCS) Scheme Scheme of Teaching and Examination – 2018-19 Master of Computer Applications

#### **III SEMESTER**

SI.	Course Code		Teaching		hing Hours /	Week		Exami	nation		1
No		Title	Department	Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	18MCA31	Database Management System	MCA	03			03	60	40	100	03
2	18MCA32	Programming using Python	MCA	03			03	60	40		
3	IEMCA33	Design and Analysis of Algorithms	МСА	03			03	60	40	100	03
4	18MCA34	System Software	MCA	03			03	60	40		
3	IEMCA35X	Elective 1	MCA	03			03	60	40	100	03
6	TEMCA36	DBMS Lab	MCA		01	03	03	60	40	100	03
7	IEMCA37	Python Programming Lab	MCA		01	03	03	60	40	100	02
8	IBMCA38	Algorithms Lab	MCA		01	03	03	60	40	100	02
		TOTAL	Gert and and	1	Theory: Practica	15hours 1: 09 hours uction: 03hou		480	320	800	02

	Elective I
18MCA351	Software Testing
18MCA352	Optimization Techniques
18MCA353	Advance Computer Networks
18MCA354	Management Information Systems

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#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Under Outcome Based Education (OBE) AndChoice Based Credit System (CBCS) Scheme Scheme of Teaching and Examination – 2018-19 Master of Computer Applications

SL			Teaching	Tea	hing Hours	Week		Exami	nation		1
No	Course Code	Title	Department	Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
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	МСА	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
-	and the second	TOTAL		1		17hours 1: 09 hours uction: 03ho	urs	540	360	900	23

#### **IV SEMESTER**

	Elective II		Elective III
18MCA441	Wireless Communication and Mobile Technologies	18MCA451	Enterprise Resource Planning (ERP)
and the second se	Cyber Security		Data Warehousing and Data Mining
	Computer Graphics	18MCA453	Advanced Database Management Systems
	Cloud Computing	18MCA454	Big Data Analytics

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#### **V SEMESTER**

SL.	C			Tea	ching Hours	Week		Exami	nation		
No	Course Code	Title	Teaching Department	Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
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			Contraction and the second	15hours I: 10 hours uction: 04 ho	urs	480	320	800	22

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and the second second	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 Under Outcome Based Education (OBE) AndChoice Based Credit System (CBCS) Scheme Scheme of Teaching and Examination – 2018-19 Master of Computer Applications

#### **VI SEMESTER**

~			Traching	Tea	ching Hours /	Week		Exami	nation		Credits
SL No	Course Code	Title	Teaching Department	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
		1	FOTAL	112				60	240	300	22

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evaluation such as weekly Multiple Choice Questions (MCQ) quiz, higher order cognitive level questions as assignment, and case study questions/ assessment carried out during the teaching learning processes. Theory courses internal assessment (CIE) shall be based on 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. \*Only for non-computer science students Course coordinator may select suitable assessment techniques/tools for continues internal test (50% weightage), 50% weightage may be given to other continues

Т	T	-	-	-	-		_	-	-			
	9	8	7	6	S	4	ω.	2	1	S.No	SEM	
	BC	PCC	PCC	PCC	PCC	PCC	PCC	PCC	PCC	Course Type	SEMESTER-I	
	20MCA19-BC*	20MCA18	20MCA17	20MCA16	20MCA15	20MCA14	20MCA13	20MCA12	20MCA11	Course Code	-	
Total	Basics of Programming & CO	Computer Networks Lab	Unix Programming Lab	Data Structures with Algorithms Lab	Research Methodology & IPR	Mathematical Foundation for Computer Applications	Computer Networks	Operating System with Unix	Data Structures with Algorithms	Title		Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
17	02				02 .	03	04	04	04	L	Teachin	ice Based (
12		04	04	04					•	P	Teaching Hours/ Week	Credit Syst
06	02				02	02				T/S DA	Week	tem (CBCS
27	03	03	03	03	03	03	03	03	03	Duration in hours		) Scheme
540	60	60	60	60	60	60	60	60	60	SEE Marks	Examination	
360	40	40	40	40	40	40	40	40	40	CIE Marks	ation	
006	100	100	100	100	100	100	100	100	100	Total Marks		
-	1	T		0	0	04	04	04	04	Credits		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination

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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 Laboratory courses internal assessment shall be based on internal test (50% weightage), remaining 50% weightage shall be given to continues versions of the laboratory program/problem, and demonstrate higher order cognitive level such as analysis and design programming assignment. evaluation of practical execution during regular laboratory hours. During regular laboratory hours students may be asked to solve the extended considered for CIE along with other continues evaluations.

2) 5 4 3 U Accustom with the use of standards/codes etc., to narrow the gap between academia and industry. Work on different software/s (tools) to Simulate, analyse and authenticate the output to interpret and conclude. Operate the simulated Gain confidence in modelling of systems and algorithms. system under changed parameter conditions to study the system with respect to thermal study, transient and steady state operations, etc. Involve in case studies and field visits/ field work. Handle advanced instruments to enhance technical talent. abilities to employment and/or self-employment opportunities, management skills, Statistical analysis,

Students and course instructor/s to involve either individually or in groups to interact together to enhance the learning and application skills. study materials to fast/slow learners. conduct remedial/ tutorial classes. It is recommended to make changes in delivery methods wherever required and give appropriate assignments/ In order to promote reinforcement of TLP, course coordinator to analyze the performance of the student after the execution of particular test and addressed, and cooperative learning technique employed, solution to the problem. Course coordinator shall maintain document in specific format the form of research/ testing / projects, and for creative and innovative methods to solve the identified problem. Skill development activities (SDA): students may be asked to solve novel problems in their projects work. for tutorial / SDA. All activities should enhance student's The students shall The students should interact with industry (small, medium and large), understand their problems or foresee what can be undertaken for study in Tutorial sessions may be conducted using cooperative Learning techniques. Tutorial sheets maintained should indicate date, problem (statement) Tutorial: fiscal expertise, etc. During the laboratory hours after the program execution, technical quiz may be conducted. Wherever laboratory is also having project work

Note:

E Four credit courses are designed for 50 hours of teaching and learning process

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S 2) Two credit courses are designed for 30hours Teaching - Learning process. Three credit courses are designed for 40hours Teaching -

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. As a part of the course Research Methodology & IPR, presenting the seminar is mandatory. The CIE marks awarded for Resaerch/Technical Seminar Students shall do the literature survey of existing work on contemporary topics and present. Student shall highlight on the research gap and Bridge course: 20MCA19-BC propose solution. Seminar presentation and report have to be evaluated using rubrics.

background. Students have to secure eligibility by scoring 50% marks in aggregate (CIE and SEE). 20MCA19-BC: Bridge course is a non-credit course introduced to the students who admits into MCA program from non-computer science

Learning process.

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Elective-I Cybersecurity Data Mining and Business Intelligence Enterprise Resource Planning User Interface Design Optimization Techniques	ctive-I20MCA261nd Business Intelligence20MCA262source Planning20MCA263Design20MCA264Cechniques20MCA265
	20MCA261 20MCA262 20MCA263 20MCA263 20MCA264 20MCA265

	6	8	7	6	ъ	4	з	2	. 1	S.No		' S
	PCC	PCC	PCC	PEC	PEC	PCC	PCC	PCC	PCC	Cours Type		SEMESTER-II
	20MCA29	20MCA28	20MCA27	20MCA26X	20MCA25X	20MCA24	20MCA23	20MCA22	20MCA21	Cours Code		
Total	Web Technologies Lab with Mini-project	Java Programming Lab.	DBMS Lab	Elective-2	Elective-1	Software Engineering	Web Technologies	Object Oriented Programming with Java	Database Management System	Title	•	Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme
19				03	03	03	04	03	03	L	Teaching	Based Cre
12	04	04	04							р		dit System
02			•			02				T/SDA	Hours/Week	(CBCS)
27	03	03	03	03	03	03	03	03	03	Durati on in hours		Scheme
540	60	. 60	60	60	60	60	60	60	60	SEE Marks	Exami	
360	40	40	40	40	40	40	40	40	40	CIE Marks	Examination	
900	100	100	100	100	100	100	100	100	100	Total Marks		
26	02	02	02	03	03	04	04	03	03	Credi	ts	

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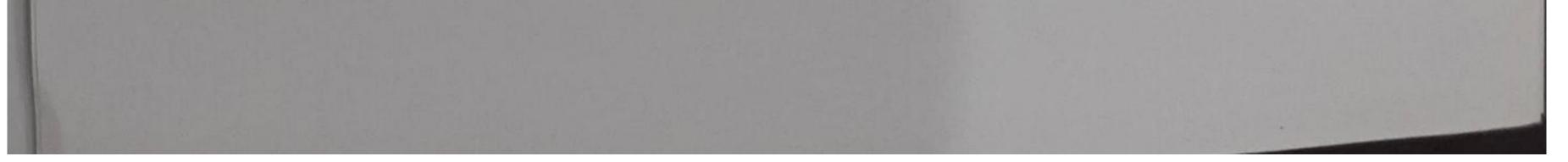
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination

20MCA345 NOSQL	20MCA344 Software Testing	20MCA343 Digital Marketing	20MCA342 Cloud Computing	20MCA341 Block chain Technology	Elective-	To	PCC 20MCA38	PCC 20MCA37 Io	PCC 20MCA36 Data An	PEC 20MCA35X	PEC 20MCA34X	PCC 20MCA33	PCC 20MCA32	PCC 20MCA31 Data	Course Code
A DOLLAR AND A DOLLAR AND A					III	Total	Advances in Java Lab	IoT Lab with Mini Project	Data Analytics Lab with Mini-	Elective-III	Elective-II	Advances in Java	loT	Analytics using Pyth	

**Under Outcome Based Education** Master of VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination -project ct non **Computer Applications** (OBE) and Choice Based Credit System (CBCS) Scheme Teaching Hours/Week 20MCA352 20MCA351 20MCA353 20MCA354 20MCA355 ٢ 04 04 04 03 03 18 1 1 . P 04 . 04 04 . 12 . 1 . Deep Learning **Big data Analytics** Wireless Ad Hoc Networks Software Project Management Software Defined Networks T/SDA 02.03.2021 updated . . 1 1 1 . Duratio Elective-IV 03 03 03 n in 03 03 03 03 24 03 hours Maharaja Instituti Examination laraja Instituté of Technology Mysora Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477 60 SEE 60 60 60 60 480 60 60 60 Marks 40 CIE 40 40 40 40 320 40 40 40 Marks 100 100 Total 100 100 100 100 100 008 100 Marks 04 04 7/104 04 Credits 03 03 02 02 02 24 ~

SEMESTER-III



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SEN	SEMESTER-IV	IV		Teachi	Teaching Hours/Week	Veek		Exam	Examination		
S.No	Course Type	Course Code	Title	Lecture(L)	Tutorial(T)	Practical(P)\Sem inar	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
-	PCC	20MCA41	Advances in Web Technologies	02	02		З	60	40	100	
2	PCC	20MCA42	Programming using C#	02	02	•	03	60	40	100	
ω	PCC	20MCA43	Industry Internship ( 4 weeks in vacation of 3 <sup>rd</sup> sem.)		•		•		100	100	
4	PCC	20MCA44	Project work Phase 2 (During 4 <sup>th</sup> Semester- min. of 4 Months)			02	03	60	40	100	-
			Total	4	4	02	60	180	220	400	

All the students have to undergo mandatory internship of 4 weeks during the vacation of III semester. Internship shall be However, student can carry out 4th semester project without completing the internship. course and have to complete the same during the subsequent semester. After satisfying the internship requirements the degree will be awarded. Project: 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 COL 2

present the work carried out before the examiners during the University examination. The work out carried out should be free from plagiarism. The 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

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination

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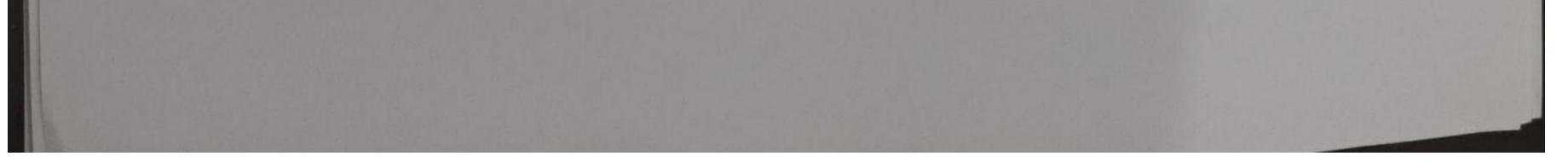
literature study may be clearly written which may be summary of existing project and highlight of what are the functionalities that are proposed to art search as part of literature survey before submitting the synopsis for the projects. this project. Student shall indicate the different research papers, documents refereed as a part of the literature study. It is recommended to do prior 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 organization/contents can be similar to project report contents of 2018 scheme/syllabus. has to publish a research paper in indexed journal conference. Publications follow the Thesis. 10% weightage is given in SEE. Project report

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## M.TECH-SP-2016-17 SCHEME OF TEACHING AND EXAMINATION

**M.Tech in Signal Processing** 

#### I SEMESTER

		Teaching	hours/week		Marks	s for		
Subject Code	Title	Lecture	Practical / Field Work / Assignment/ Tutorials	Duration of Exam in Hours	I.A.	Exam	Total Marks	CREDITS
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
6ESPL17	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**

		Teaching h	ours/week		Marks	for			
Subject Code	Title	Lecture	Practical / Field Work / Assignment/ Tutorials	Duration of Exam in Hours	I.A.	Exam	Total Marks	CREDITS	
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:

16ESP25	Detection & Estimation	16ESP253	Pattern Recognition	
16EVE25	2 VLSI Design for Signal Processing	16ESP254	Channel Coding	

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### M.Tech in Signal Processing

### **III SEMESTER: Internship**

Subject		Teaching ho	urs/week	Duration of the	Marks f	for	Total	
Code	Title	Lecture	Practical / Field Work	Exam in Hours	I.A.	Exam	Marks	CREDITS
16ESP31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)				25	-	25	
16ESP32	Report on Internship				25		25	
16ESP33	Evaluation and Viva-voce on Internship				-	50	50	20
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

		Teaching	hours/week		Mark	s for		
Subject Code	Subject	Lecture	Practical / Field Work / Assignment/ Tutorials	Duration of Exam in Hours	I.A.	Exam	Total Marks	CREDITS
16ESP41	Adaptive Signal processing	4		3	20	80	100	4
6EXX42X	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

ective-3:			
16ESP421	Array Signal Processing	16ECS423	Communication System Design using DSP Algorithms
16ESP422	Speech and Audio processing	16ELD424	Reconfigurable Computing

Note:

1. 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.

2. 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.

3. Project Evaluation: Evaluation shall be taken up at the end of 4th semester. Project work evaluation and Viva-Voce examination shall be conducted

a. Internal Examiner shall carry out the evaluation for 100 marks.

b. External Examiner shall carry out the evaluation for 100 marks.

c .The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.

d. Viva-Voce examination of Project work shall be conducted jointly by Internal and External examiner for 100 marks.

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



		VISVESV	ARAYA TECHNOLOGICA Scheme of Teaching and Ex				AGAN	Л		
			M.Tech in Signal Pro							
-			Choice Based Credit S	System (	CBCS)					-
IS	EMESTE	R				-				
				Teaching	Hours /Week	-	Exam	ination	1	-
SL No	Course	Course Code	Course Title	Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC	18ELD11	Advanced Engineering Mathematics	04	-	03	40	60	100	4
2	PCC	18ECS12	Advanced Digital Signal Processing	04	- 11-1	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

TESSIONAL EJECTIVE.

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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		VISVI		ARAYA TECHNO Scheme of Teachin M.Tech in S Choice Based	ig and I Signal P	Examinati rocessing	ion – (ESI	2018- P)		AGAV	T		
п	SEMESTE	R				I. Wasshing		(1)/1-	1		1 4		_
SL N o	Course	Course C	Code	Course Title		Teaching		Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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		<b>Biomedical Signal Pro</b>	cessing	04			03	40	60	100	4
4	PEC	18XXX2	4X	Professional elective 1		04	1		03	40	60	100	4
5	PEC	18XXX2	5X	Professional elective 2	1	04			03	40	60	100	4
6	PCC	18ESPL2	26	Image Processing Lab			1	04	03	40	60	100	2
7	PCC	18ESP27		Technical Seminar			-	02		100		100	2
			TOT			20		06	18	340	360	700	24
Not	te: PCC: Pro	ofessional co	re, 1	PEC: Professional Electi	ve			11			- 2118		
	P	rofessiona	l Elec	ctive 1			Prof	ession	al Elec	Tent of the second			
Co	Course Code Under : Course Title 18xxx24x		Course Title		Code Und 8xxx25x	cr[: 9	haraja Bala	Course Title				11.0	
	18ECS241 Wireless Sensor Networks		ess Sensor Networks				Chan	Channel Coding					
	18ELD24	2		figurable Computing		8ESP252				~	cessing		
Not	18ESP243	3	Detec	ction and Estimation	1	8ELD253		That will			unical Sy	stems	

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

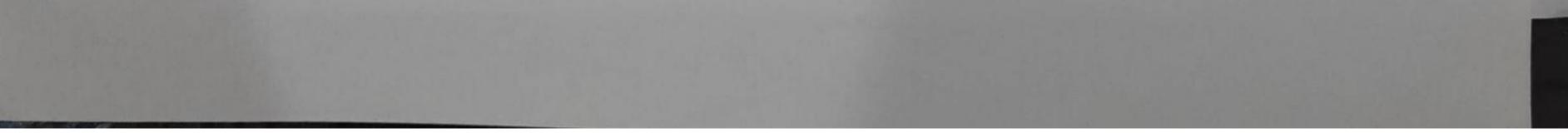


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No         PCC         18E           1         PCC         18E           2         PEC         18X	rse Code SP31	Course Title		Teaching				Exam	ination		
2 PEC 18X	SP31	Course Title		Theory	Practical/ Field work/	Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
			sing	04	-	-	03	40	60	100	4
3 PEC 18X	XX32X	Professional elective -3		04	-	-	03	40	60	100	4
	XX33X	Professional elective -4		04	-	-	03	40	60	100	4
4 Proj 18E	SP34	Evaluation of Project ph	ase -1		0	2	**	100		100	2
5 INT 18E	SP35 Internship			(Complet intervenin I and II so /or II and semesters	ng vacati emesters III	on of	03	40	60	100	6
Notes Doo D		TAL		12	0		12	260	240	500	20
Note: PCC: Professi Profe		PEC: Professional Electiv	ve, Proj:	Project, 1	NT: Int	SALE SALES					
				والمتحد والمسالية	Pro	ession	nal El	ective	4		
Course Code Under 18xxx32x	•	Course Title	Cours	se Code Ur	nder :			Cour	se Title	8	
18ESP321	Spee	ch and Audio Processing		18xxx33x 18ESP331		V	ISIDe	sign for	Signal	Process	ina
18ESP322		ray Signal Processing		18ESP332						chine Le	
18ESP323	C	ommunication System gn using DSP Algorithm		18ECS333					оТ		

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		VISVE	SVARAYA TECHNOLOGI Scheme of Teaching and M.Tech in Signal I Choice Based Credi	Examin: Processin	ntion – 201 ng (ESP)	and the second second	LAGA	VI		
IV	SEMES	TER								
				Teaching	Hours /Week		Exan	ination	1	
SL No	Course	Course Code	Course Title	Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	Credits
1	Proj	18ESP41	Project work phase -2		04	03	40	60	100	18
			TOTAL		04	03	40	60	100	18
Not	e: Proj: I	Project.								
	Project P		by a committee comprising of HoD a	as Chairma	n, Guide/co-g	uide, if a	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.

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

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			ased Credit System (CBCS) and							
Pro	ogramm	e: M.TECH I	N SIGNAL PROCESSING (ESP)	D		_			-	_
SI. No	Course	Course Code	I SEMESTE Course Title		Iours /Week		Examina	ation		
NU				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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	
5	PCC	20ESPL16	Advanced Digital Signal Processing Lab	-	04	03	40	60	100	
7	PCC	20RMI17	Research Methodology and IPR	02		03	40	60	100	+
	100	2011.11.1	TOTAL	22	04	21	280	420	700	

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



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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Pro	aromm	Choice Ba	sed Credit System (CBCS) an	id Outco	ome Based E	ducati	on(OB	<b>E</b> )	-	
110	gramme	: M.TECH IN	SIGNAL PROCESSING (ESP)	TED				-		
			II SEMES	Teaching	Examination					
SI. No	Course	Course Code	Course Title	Theory	Practical/ Field work/ Assignment/ Project	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
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	
6	PCC	20ESPL26	Image Processing Lab		04	03	40	60	100	
7	PCC	20ESP27	Technical Seminar		02		100		100	1
		T	DTAL	20	06	20	340	360	700	2

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



Pro	fessional 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		

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 fail in internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.

Principal Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Sritanusapatoa Taluk Srirangapatna Taiuk Mandya Dietrict - 574 177



Prog		Choice Based	RAYA TECHNOLOGICA heme of Teaching and Exa Credit System (CBCS) an IGNAL PROCESSING (ESP)	aminations -	- 2020 - 21					
		amme: M.TECH IN SIGNAL PROCESSING (ESP) III SEMESTER								-
				Teaching Ho	urs /Week		Examina	tion		
SI. No	Course	Course Code	Course Title	Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC	20ESP31	Adaptive Signal Processing	04	10 CT	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 -1		02		100		100	2
5	PROJ	20ESP35	Mini-Project		02		100		100	2
6	INT	20ESPI36	Internship	intervening	during the vacation of I esters and /or mesters.)	03	40	60	100	6
-		T	OTAL	10	04	12	360	240	600	20

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

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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

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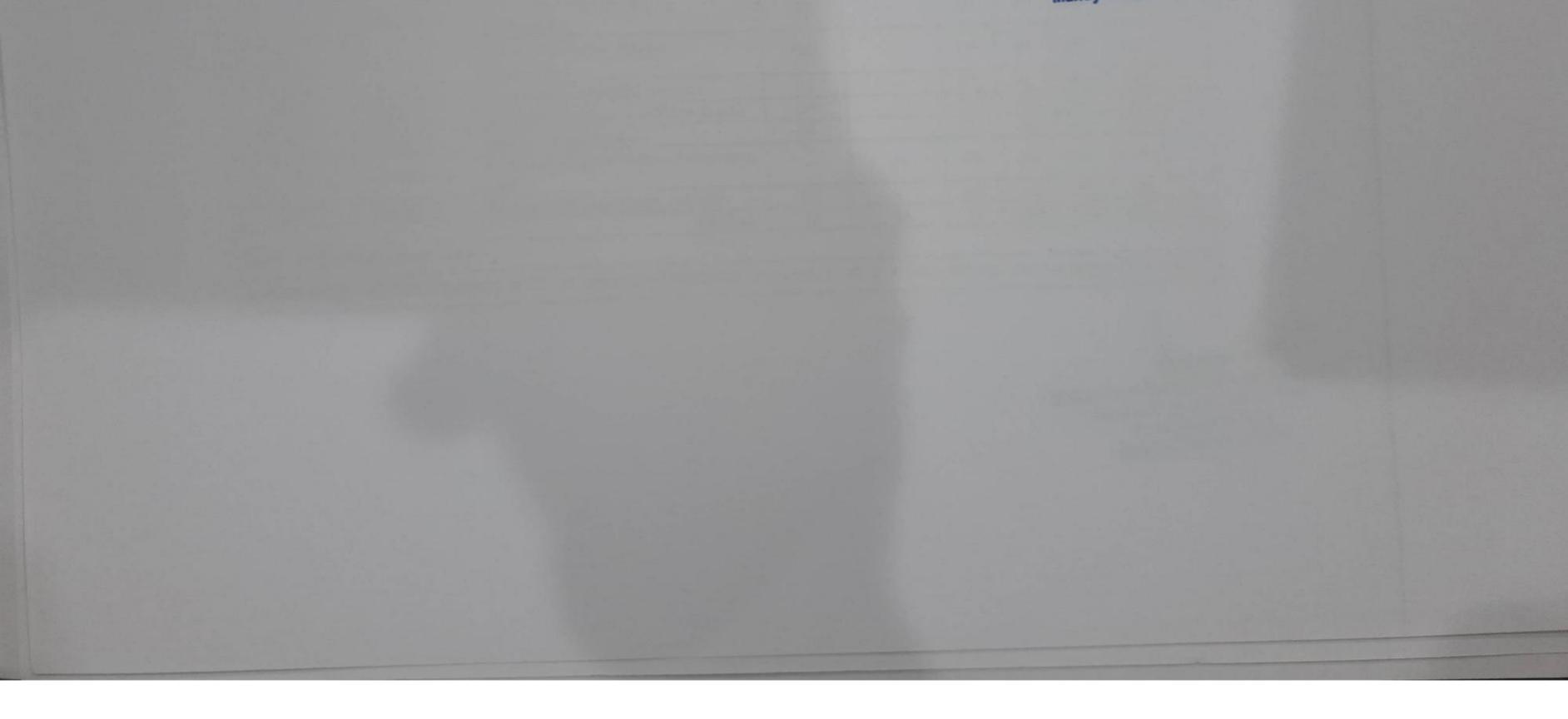
Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



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.

Decent ...

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





## VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

## SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering

### CHOICE BASED CREDIT SYSYTEM (CBSC)

#### I SEMESTER

CONTRACTOR OF STREET,		Teachin	g hours/week		Mar	ks for		CREDITS
Subject Code	Name of the Subject	Lecture	Practical / Field Work / Assignmen	Duration of Exam in Hours	I.A.	Exam	Total Marks	
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
Printing of			Maharaja Institute of Technology Myso Belawadi, Naguyanahalli Post

Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering

CHOICE BASED CREDIT SYSYTEM (CBSC)

#### **II SEMESTER**

		Teachin	g hours/week		Mai	rks for	Tot al Mar	
Subject Code	Name of the Subject	Lecture	Practical / Field Work /	Duration of Exam in Hours	I.A.	Exam		CREDIT S
16MTP21	Advanced Heat Transfer	4	-	3	20	80	100	4
16MTP22	Steam &Gas Turbines	4	-	3	20	80	100	4
16MTP23		4	-	3	20	80	100	4
16MTP24	Theory of 1C Engines	4	-	3	20	80	100	4
and and the second second				3	20	80	100	4
16MTP25X 16MTP26			3	3	20	80	100	2
16MTP/M TH27	Thermal Engineering - Lab 2 SEMINAR		-		100	-	100	1
11127	**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 1C Engines	16MTP254	Computational Methods in Heat Transfer & Fluid Flow
ll Post ik	Maharaja Institute of Technol Bolawadi, Naguvanahal Shirangapatna Talu Mandya District - 571		Principal Maharaja Institute of Dectinal gy Mysore - Belawadi, Naguvanahalli Post Srirangapatha Taluk Mandya District - 571477



## 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**

2012/01/01/01		Teachir	g hours/week	Exa	amination			
Subject Code	Title	Theory	Practical / Field Work / Assignment	Duration	I.A. Mark s	Theory / Practical Marks	Total Marks	CREDITS
16MTP31	Seminar/ Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	
16 MTP32	Report on Internship		-	-	25	-	25	
16 MTP 33	Evaluation and Viva-Voce of Internship	-	-		-	50	50	20
16 MTP34	Project Work Phase-1	-			50		50	1
	Total	-	-	-	100	50	150	21

Principa Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 57 1477



### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI SCHEME OF TEACHING AND EXAMINATION FOR M.TECH. in Thermal Engineering/Thermal Power Engineering **CHOICE BASED CREDIT SYSYTEM (CBSC)**

**VI SEMESTER** 

		Teaching hours/week		E	Total			
Subject Code	Title	Theory	Practical / Field Work /	Duration in Hrs	I.A. Ma rks	Theory / Practical Marks	Total Marks	CREDITS
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**

с.

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 4<sup>th</sup> 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 4<sup>th</sup> semester. Project work evaluation and Viva-Voce examination shall conducted 3. Project evaluation:

- a. Internal Examiner shall carry out the evaluation for 100 marks.
- b. External Examiner shall carry out the evaluation for 100 marks.
- c . 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. Belawadi, Naguvanahalli Post

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Srirangapatna Taluk Mandya District - 571477



		M.Tecl	SVARAYA TECHNOLOGIC Scheme of Teaching and Ex i in Thermal Engineering/The ased Education(OBE) and Che	xaminati rmal Pov	on – 2018-1 ver Enginee	9 ring (	MTP)		Post Post	POLO
ISE	EMESTE	R								
SI.	SI.				hing Hours /Week	Examination				ts
N Cours o	Course Code	Title	Theory	rıcıu work/ Assignme nt	Duration in hours	CIE Marks	Marks	Total Marks	Credits	
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 PCC	18MTPL16 18RMI17	Thermal Engineering measurement -         Lab 1         Research Methodology and IPR	02		03	40	60 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 forthe 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)

**H SEMESTER** 

II SEMESTER					Teaching	Hours /Week		Exam	ination			
SL No	Course	Cour	rse Code	Title		Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC	18M	TP21	Advanced Heat Transfe	r	04	**	03	40	60	100	4
2	PCC		TP22	Steam & Gas Turbines		04	**	03	40	60	100	4
3	PCC	18M		Refrigeration and Air Co	onditioning	04		03	40	60	100	4
4	PEC		TP24X	Professional elective 1		04		03	40	60	100	4
5	PEC		TP25X	Professional elective 2		04		03	40	60	100	4
6	PCC		TPL26	Simulation Laboratory Projects on Thermal Engineering - Lab 2			04	03	40	60	100	2
7	PCC	18M	TP27	Technical Seminar			02	-	100	-	100	2
-	lice	10111	and the second se	TOTAL		20	06	18	340	360	700	24
Note	e: PCC: P	rofessio		PEC: Professional Electiv	e, OEC: Oper	Elective,	Aud: Audit Co	urse				
		Profe	ssional	Elective 1			Profession	al Elec	tive 2			
Course Code under Course title 18MTP24X		Course title	Course Coo 18MTP25X		Course title							
		Advand	ced Power Plant Cycles	18MTP25	1	Theory of 10	C Engine	es		1.10		
1	18MTP24	2	Therm	al Power Station – 1	18MTP252	2	Modeling a				and the second se	
1	18MTP24	3			18MTP253		Computational Methods in Heat Transfer & Flu					

and the second second	Alternate rueis for IC Englies	Flow
Note:		
1 Technical Ser	ninar:CIE marks shall be awarded by a committee compri	sing of HoD as Chairman, Guide/co-guide, if any, and a senior faculty

1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as chairman, Guide, to guide, if any, and a bench, 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.

Accust Principal Maharaja Institute of Technology Mysore Belawadi, Nagura analli Post Srirang Juk Mandya Laurer - 571477





# 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)

SI. No	Course	Course Code		Teaching	Teaching Hours /Week			Examination				
NO			Course Title	Theor Y	Theor y work / Assig nmen		Mark s	s	Mark			
1	PCC	18MTP31	Design of heat Transf Equipments for thermal pow plant	Second Contraction of the Contra		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	intervenir	27233	03	40	60	100	6		
		тс	DTAL	12	02	12	260	240	500	20		
Not	e: PCC: Profes	sional core, PEC:	Professional Elective.				15 ball	1910.91	Corous p	10200		
		Professional	elective 3		Profess	ional e	lective	4				
	rse Code er 18XXX32X	un		Course Code under 18XXX33X			Course	title				
18	SMTP321	Convective H	Heat and Mass Transfer	18MTP331	Experiment		hods in	Therma	al Power			
18	8MTP322	Engine Flow	& Combustion	18MTP332	Biomass Co	onversi	on and	Techno	logies			
10	SMTP323			18MTP333	Biomass Conversion and Technologies CAD for thermal engineering				0			

Note:

III SEMESTER

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



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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	SEMES	TER		Teaching H	Iours /Week		Exan	nination	-	ts
SL. No	Course	Course Code	Title	Theo	Field work/ Assig nmen	Dura tion in	CIE CIE Mark	SEE Mark s Viva	Total Mark s	Credits
		COLORDAL	Designt work phase 2		04	03	40	60	100	20
1	Proj	18MTP41	Project work phase -2 TOTA	L	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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Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk Mandya District - 571477



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		M.Tech in Choice B	ESVARAYA TECHNOLOGIC/ Scheme of Teaching and Exa Thermal Engineering/Ther ased Credit System (CBCS) an	minat mal F	ions – Power	2020 - 21 r Engine	eering	g (MT	<b>(P)</b>		
ISE	MESTE	R				110					-
				Teacl	Wee	ours per k		Exam	ination		
SL No	Course	Course Code	Course Title	Theory	Practical	Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	1921			L	Р	SDA	Di				
1	PCC	20MTP11	Applied Mathematics	03		02	03	40	60	100	-
2	PCC	20MTP12	Finite Element Method in Heat Transfer	03		02	03	40	60	100	1
3	PCC	20 MTP13	Advanced Fluid Mechanics	03		02	03	40	60	100	
4	PCC	20MTP14	Combustion Thermodynamics	03		02	03	40	60	100	
5	PCC	20 MTP15	Advanced Power Plant Cycles	03		02	03	40	60	100	
6	PCC	20 MTPL16	Thermal Engineering Measurement Laboratory		04		03	40	60	100	
7	PCC	20001112	Research Methodology and	01		02	02	10	60	100	

	20RMI17	IPR	01		02	03	40	60	100	2
		TOTAL	17	04	12	21	280	420	700	24
Note: PCC: I	Professional co	ore.	1			1	-			-

### 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.

Maharaja Institute of Technology Mysore Belawadi, Naguvanahalli Post Srirangapatna Taluk



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		C		SVARAYA TECHNOLOGI Scheme of Teaching and I in Thermal Engineering/T ed Credit System (CBCS)	Lxamma	Elons E	nainee	ring (MT	P)			
II SH	EMESTEI	R					-		State of the second	ination		Γ
			Sec. 1		Te	Teaching Hours /Week				-		
SI. No	Course		Course Code	Course Title	Theory	Practical/ Seminar	Skill Development	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
		100			L	Р	SDA			60	100	4
1	PCC	201	MTP21	Advanced Heat Transfer	03		02	03	40	60		4
2	PCC	201	MTP22	Steam and Gas Turbines	03		02	03	40	60	100	
3	PCC	201	ATP23	Refrigeration and Air	03		02	03	40	60	100	4
4	PEC	201	ATP24X	Professional Elective- 1	04			03	40	60	100	4
5	PEC	201	ATP25X	Professional Elective- 2	04			03	40	60	100	4
6	PCC	201	MTPL26	Simulation Laboratory		04		03	40	60	100	2
7	PCC	201	4TP27	Technical Seminar		02			100		100	2
			TOT	AL	17	06	06	18	340	360	700	24
Note:	PCC: Pr	ofessi	onal core,	PEC: Professional Elective	e.							
	( set to be	Pro	fessional	Elective 1		Mile -	Prof	essional 1	Electiv	e 2		
	se Code r 20XXX2	24X		Course title	A STREET STREET	e Code 20XXX	25X			rse titl		
2	20MTP241 Energy Conservation Management				20	MTP25	51	Solar Th applicati		ſechnol	ogies a	nd
2	0MTP242	2		Power Station	20	)MTP25	52	Modellin Thermal			ion of	
2	20 MTP243		Nuclear Generati	Engineering in Power on	20	MTP25	53	Computa Transfer				at
2	0MTP244	1	Cryogen		20	MTP25	54	Jet Prop	ulsion a	and Roc	ketry	

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.

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Maharaja Institute of Technology Mysore Belawadi, Naguvanahali



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		S M.Tech in	RAYA TECHNOLOGICA cheme of Teaching and Exa Thermal Engineering/Ther Credit System (CBCS) an	aminati mal Po	ons – 202 wer Engi	0 - 21 neering (	мтр	)			
ISEN	MESTER					R. Brant				8.2%	
				Teac	hing Hour	s /Week		Exam	ination		
SI. No	Course	Course Code	Course Title	Theory	Practical/ Mini–Project/ Internship	Skill Development activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
				L	Р	SDA	Ι				
1	PCC	20MTP31	Design of Heat Transfer Equipment for Therma Power Plant			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		Internship	inter I and /or I	d II semes I and III	cation of	03	40	60	100	6
-		ТОТ	`AL	09	esters.) 04	02	12	360	240	600	2
No	te: PCC: Pro	ofessional core,	PEC: Professional Elective.								
07	notogy Myrico	Professional				Professio	nal e		10		
Course Code Course title under					Code				se title		
20MTP321 Convective Heat and Mass Transfer				201	MTP331	Power	r Eng	ineerin			
20MTP322 Theory of IC Engines				201	MTP332	Non-o	conve	ntional	Energy	y Resou	irces
	20MTP323	Design ar	nd Analysis of Thermal	201	MTP333	Gas I	ynan	nics			
-	20MTP324		ange Phenomena in Fluids	201	MTP334	Therr	nal St	orage S	System		

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.

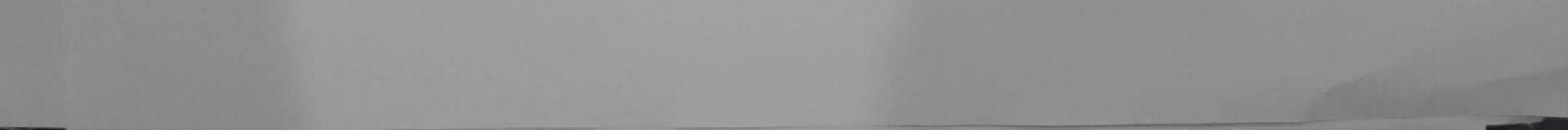
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and performance in Question and Answer session in the ratio 50:25:25.

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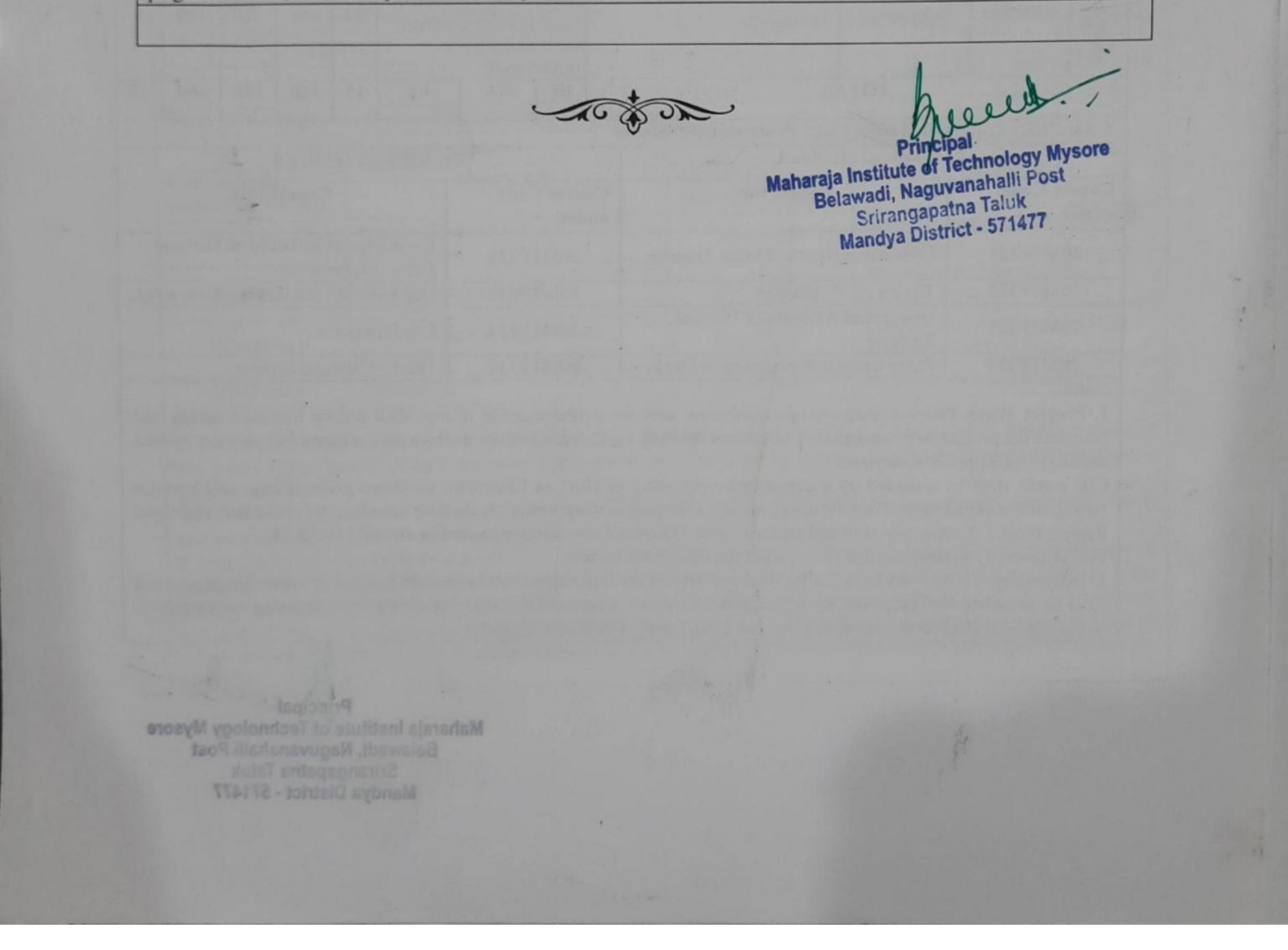
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		M	ESVARAYA TECHNOLOGIC Scheme of Teaching and E Fech in Thermal Engineering/Th ased Credit System (CBCS) a	ermal Po	ower Engine	ering (M	TP)	8E)		
IV SI	EMESTER	Contraction of the local division of the loc								
Sl. No Course				ing Hours Week		Exan	ination			
	Course	Course Code	Course Title	Theory	Practical/ Field work	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	Credits
				L	Р			SE		
1	Project	20MTP41	Project work phase -2		04	03	40	60	100	20
- North		and the second s	TOTAL		04	03	40	60	100	2

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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