



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
Belawadi, Srirangapatna tq, Mandya-571477
www.mitmysore.in



Ref.No: MITM/MCA/IN/2024-25/

Date:

Usage of ICT Tools in Different Courses by Faculty Members for the AY 2023-24

Faculty members have utilized various ICT tools in the teaching of different courses during the Odd and Even Semesters to improve the effectiveness of the teaching-learning process. The use of presentation tools, online assessment platforms, coding environments, virtual laboratories, video conferencing applications, and multimedia resources has helped in making classes more interactive and engaging.

The following document presents the details of ICT tools used by faculty members for different courses, highlighting the department's efforts towards technology-enabled teaching and learning.

Semester: **First Semester**

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty
1	M23MCA102 – Operating System Concepts	1.ICT Tool in Google Classroom 2.Flip Classroom	To explain operating system concepts, demonstrate Linux commands, perform practical activities, share study materials, and conduct online quizzes.	1.Sandeepa K M 2.Kusuma N
2	M23MCA103 – Data Structures (DS)	ICT Tool in Google Classroom	To demonstrate algorithms, data structures, coding practice, and improve programming skills.	
	M23MCA104 – Computer Networks (CN)	ICT Tool in Google Classroom	To simulate networking concepts, routing, switching, and protocol analysis.	Poornima H A

Semester: Second Semester

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty
1	M23MCA201 – RDBMS	1.ICT Tool in Google Classroom	To perform SQL queries, database design, normalization, and practical demonstrations.	Sandeepa K M
2	M23MCA204 – Python Programming	1.ICT Tool in Google Classroom	To teach Python programming through coding exercises, notebooks, and debugging sessions.	Mahalakshmi M
3	M23MCA205A- Data Warehouse & Data Mining	1.ICT Tool in Google Classroom 2.Flip Classroom	To demonstrate data mining algorithms, clustering, classification, and analytics.	Thejashwini M N Kusuma N
4	M23MCA206B – Cyber Security (CS)	1.ICT Tool in Google Classroom	To understand cyber threats, ethical hacking concepts, and network security practices.	Poornima H A

Semester: Third Semester

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty
1	M23MCA302-IOT	1.ICT Tool in Google Classroom 2.Flip Review 3.Product Exhibition	To explain IoT concepts, demonstrate sensor connections, simulate IoT circuits, and share learning materials.	Mahalakshmi M
2	M23MCA303 – Cloud Computing (CC)	1.ICT Tool in Google Classroom 2.Flip Classroom	To demonstrate cloud services, virtualization, and deployment models	Kusuma N
3	M23MCA305D – NoSQL Databases	.ICT Tool in Google Classroom	To demonstrate NoSQL databases, CRUD operations, aggregation, and document databases.	Sandeepa K M
4	M23MCA306B – Seminar (ST)	ICT Tool in Google Classroom	To explain software testing concepts, demonstrate test case	Kanchan Kaveri B S

			creation and automation, and share learning materials.	
5	M23MCA306C – Project Work	ICT Tool in Google Classroom	To support project development, collaboration, version control, and documentation.	Poornima H A



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Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1	M24MCA104 – Java Programming	ICT Tool in Google Classroom	To teach object-oriented programming concepts with coding demonstrations.	Poornima H A
2	M24MCA105 – Operating Systems	ICT Tool in Google Classroom	To demonstrate process management, memory management, scheduling, and Linux commands	Sandeepa K M

Semester: Second Semester

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1	M24MCA201 – PHP	ICT Tool in Google Classroom	To develop dynamic web applications using PHP and MySQL integration.	Sandeepa K M
2	M24MCA202 – Python Programming	ICT Tool in Google Classroom	To improve Python programming skills through hands-on coding and problem solving.	Mahalakshmi M
3	M24MCA303 – Data Warehouse and Data Mining	1.ICT Tool in Google Classroom 2.Role play	To demonstrate data mining algorithms, clustering, classification, and analytics	Thejashwini M N Kusuma N

Semester: Third Semester

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1	M24MCA302 – Mobile Application Development	ICT Tool in Google Classroom	To develop Android applications using practical coding	Sandeepa K M

			sessions and testing.	
2	M24MCA303 – Cloud Computing (CC)	1.ICT Tool in Google Classroom 2.Course Era	To understand cloud architecture, virtualization, storage, and deployment models.	Kusuma N
3	M24MCA304 – Internet of Things (IoT)	ICT Tool in Google Classroom	To simulate IoT devices, sensors, and cloud-based monitoring applications.	Mahalakshmi M
4	M24MCA305C –Artificial Intelligence (AI)	ICT Tool in Google Classroom	To implement AI algorithms, machine learning models, and intelligent applications.	Poornima H A
	M24MCA306C – Cyber Security	ICT Tool in Google Classroom	To perform security analysis, penetration testing, and vulnerability assessment.	Akhila P



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Usage of ICT Tools in Different Courses by Faculty Members for the AY 2025-26

Faculty members have utilized various ICT tools in the teaching of different courses during the Odd and Even Semesters to improve the effectiveness of the teaching-learning process. The use of presentation tools, online assessment platforms, coding environments, virtual laboratories, video conferencing applications, and multimedia resources has helped in making classes more interactive and engaging.

The following document presents the details of ICT tools used by faculty members for different courses, highlighting the department's efforts towards technology-enabled teaching and learning.

Semester: **First Semester**

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1	M25MCA105 – Computer Networks (CN)	ICT Tool in Google Classroom	To demonstrate networking concepts, routing, switching, protocol analysis, and virtual networking experiments.	Poornima H A
2				

Semester: **Second Semester**

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1				
2				

Semester: Third Semester

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1				
2				

Semester: Fourth Semester

Sl. No	Course Code & Course Title	ICT Tools Used / Innovative Teaching learning	Purpose of Usage	Name of the Faculty / Signature of the faculty
1				
2				

