



UNIVERSITY OF ENGINEERING & MANAGEMENT  
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# UNIVERSITY OF ENGINEERING & MANAGEMENT, JAIPUR

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'Gurukul', 6 Kms. from Chomu on Sikar Road, Udaipuria Mod, Chomu, Jaipur-303807 (Rajasthan)

Phone : 01423-205168, Email: vc@uem.edu.in, Website : www.uem.edu.in

## Minutes of Meeting of Board of Studies Department of Computer Science & Engineering

University of Engineering & Management, Jaipur  
held on 09.07.2025

The Meeting of Board of Studies of Department of Computer Science & Engineering was held on 09<sup>th</sup> July, 2025 at 11.00 am at Board Room, First floor, UEM Jaipur.

1. Dr. G.Uma Devi, HoD, Dept. of Computer Sc. & Engineering, UEM Jaipur
2. Dr. Mushtaq Ahmed, Associate Professor, Malaviya National Institute of Technology, Jaipur
3. Mr. Manish Sahu, Chief Operating Officer, Kreeti Technologies Pvt Ltd
4. Mr. Fre Freddy Walespathy, SAS Institute (India) Pvt Ltd, New Delhi.
5. Dr. Tapas Si, Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
6. Dr. Abheek Gupta, Asso. Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
7. Dr. Ragul Kumar Garg, Asso. Professor, Dept. of Computer Science & Engineering, UEM Jaipur
8. Dr. Jyoti Khandelwal, Asso. Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
9. Mr. Dipta Mukherjee, Assistant Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
10. Ms. Sagarika Ghosh, Assistant Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
11. Mr. Hriday Banerjee, Asst Professor, Dept. of Computer Science & Engineering, UEM Jaipur
12. Mr. Santanu Basak, Asst Professor, Dept. of Computer Science & Engineering, UEM Jaipur
13. Mr. Pravesh Kumar Bansal, Asst Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
14. Ms. Jyoti Anand, Assistant Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
15. Mr. Debajyoti Chatterjee, Asst Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
16. Mr. Sourav Kumar, Asst Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
17. Mr. Soumya Sen, Asst Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
18. Mr. Soumen Sarkar, Asst Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur
19. Mr. Sudeer Kumar, Asst Professor, Dept. of Computer Sc. & Engineering, UEM Jaipur

Prof.(Dr.) G.Uma Devi, HoD, Department. of Computer Science and Engineering, UEM Jaipur welcomed all the members of Board of Studies before commencement of the meeting. Thereafter agenda points of the meeting of Board of Studies were taken up for discussion.

The Board of Studies of Department of Computer Science and Engineering, UEM Jaipur took the following resolutions:

### Agenda Item No-1

#### Confirmation of minutes of 15<sup>th</sup> BOS Meeting held on 29.11.2024

The minutes of the 15th Board of Studies Meeting, conducted on 29th Nov 2024, were duly circulated to all BoS members in advance via email for their review and comments. No suggestions, objections, or modifications were received from any member, thereby indicating their consensus on the accuracy and completeness of the recorded minutes. The minutes were formally confirmed and accepted without amendments, serving as an official and accurate record of the deliberations and resolutions made during the 15th BoS Meeting.

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## Agenda Item No-2

Report the action taken, where necessary, on the various decisions taken by the BOS in its 15<sup>th</sup> meeting held on 29.11.2024

### **i) Report on the Revision of Syllabus as per AICTE Norms for the 2022, 2023, 2024 Batch**

**Action Taken:** A structured and phased approach was adopted to revise the undergraduate curriculum in compliance with the AICTE model curriculum guidelines across three consecutive academic years. The revisions emphasized the inclusion of emerging technologies such as Artificial Intelligence, Machine Learning, Internet of Things, Blockchain, Cloud Computing, and Cybersecurity. Additionally, the syllabi integrated modules on soft skills, ethics, research methodology, and innovation. Inputs from academia, alumni, industry professionals, and internal stakeholders were meticulously reviewed to ensure the curriculum remains future-ready and globally aligned. The revised syllabus has been successfully implemented across batches beginning from 2022 onward.

### **ii) Report on Various Skill Development Programs for Departmental Faculty Members in Association with Edu-Skill**

**Action Taken:** A series of skill development programs were conducted in collaboration with Edu-Skill. These programs included training sessions on advanced teaching techniques, AI and Data Science tools, and real-world applications of Machine Learning. Faculty members actively participated, enhancing their ability to deliver industry-relevant education. The sessions also covered the integration of digital tools for effective pedagogy.

### **iii) Report on Published the 2nd Yearly Magazine**

**Action Taken:** The department successfully published the 2nd volume of the magazine 'Knowledge Spectrum', which highlights the accomplishments of students and faculty. The magazine features research articles, project highlights, departmental achievements, and success stories, creating a platform to showcase talent and innovation. It was launched with ISBN [978-81-980034-6-1] and has been distributed digitally and in print.

### **iv) Report on FDP/Workshop/Seminar for Teachers in Emerging Technologies**

**Action Taken:** Recognizing the pivotal role of faculty in shaping future-ready graduates, the Department of Computer Science & Engineering initiated a strategic focus on enhancing the technological competencies of teaching staff through structured Faculty Development Programmes (FDPs), workshops, and seminars centered on emerging technologies.

During the review period, a total of 87 FDP courses were successfully attended by faculty members, both in online and offline modes. These FDPs were conducted in association with prestigious national and international institutions including AICTE-ATAL Academy, NITTTR, IITs, NITs and Edu-Skill.

The programs addressed a broad spectrum of frontier technologies, including but not limited to: **Artificial Intelligence (AI):** Courses explored supervised and unsupervised learning, natural language processing, neural networks, and ethical considerations in AI deployment.

*(Signatures of faculty members)*





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**Blockchain Technology:** Training covered fundamentals, smart contracts, decentralized applications, and real-world case studies in supply chain and finance.

**Internet of Things (IoT):** Sessions emphasized sensor networks, data collection, cloud integration, and application development using IoT platforms.

**Quantum Computing:** Introductory and intermediate-level FDPs were conducted to expose faculty to qubit operations, quantum logic gates, and the potential impacts of quantum systems on cryptography and computing.

**Cybersecurity and Cloud Infrastructure:** Programs included hands-on labs on secure software development, identity management, and cloud architecture design.

**Data Science and Big Data Analytics:** FDPs included modules on data wrangling, predictive modeling, and visualization using R, Python, and cloud-based tools.

The primary aim of these initiatives was to equip faculty members with current knowledge, pedagogical strategies, and tools to integrate industry-relevant technologies into academic instruction. Outcomes of these FDPs include:

- Improved student engagement through the use of case-based and project-based learning methods.
- Facilitation of interdisciplinary research proposals and increased participation in sponsored projects.
- Development of internal trainers and academic leaders capable of mentoring other faculty members and students.

A few programs were fully residential or hybrid in nature and included panel discussions, research paper writing sessions, and evaluation mechanisms aligned with AICTE/UGC norms.

Support and Collaboration: The successful participation of faculty members in these 27 training programs has led to the following measurable impacts:

- ❖ Enhanced student mentorship in project development, internships, and research paper submissions.
- ❖ Increased faculty confidence in using advanced educational technologies and open-source platforms.
- ❖ Greater cross-disciplinary collaboration and publication output.

## v) Report on Club Activities Conducted

**Action Taken:** the academic session, the department actively conducted a total of 15 club-based activities, aiming to foster technical, professional, and interpersonal skills among students. These events were carried out through the Coding Club, ACM Student Chapter, and the Gaming Club, alongside industry exposure initiatives.

Distinguished Speaker Programs (DSP): 2

Coding Competitions: 6

Workshops: 4

Seminars: 2

Gaming Events: 1

Internal Hackathon: 1

Industrial Visit: 1

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**Coding Club:** Organized 6 coding competitions and 1 internal hackathon to enhance algorithmic thinking and programming skills. Peer-to-peer sessions and mentoring further enriched the learning environment.

**ACM Student Chapter:** Hosted 2 DSP lectures featuring domain experts, 4 hands-on workshops in Machine Learning, Data Science, and Cybersecurity, and 2 technical seminars focusing on current industry trends and best practices.

**Gaming Club:** Conducted 1 e-sports and traditional gaming event promoting strategic thinking, teamwork, and recreational engagement.

**Industrial Visit:** One visit was arranged to a technology-driven company, allowing students to gain real-world insights into industry practices and operations.

These initiatives have significantly contributed to enhancing students' academic and practical understanding, encouraged innovation, and fostered a sense of community and professional growth. The department will continue to expand and monitor such activities to ensure continued engagement and industry alignment.

## vi) Report on Industry-Oriented Topics and Collaborations in Emerging Technologies

**Action Taken:** In response to the dynamic nature of industries, our institution has implemented several initiatives to enhance the industry relevance of our academic programs. We have introduced industry-oriented topics into our curriculum, aiming to bridge the gap between academic learning and practical applications. Key steps include:

**Curriculum Enhancement:** We identified key industry trends and challenges and integrated them into our curriculum. This includes incorporating case studies and real-world scenarios to provide students with practical insights into how emerging technologies are applied in the industry. Courses now feature modules on Artificial Intelligence, Machine Learning, IoT, Blockchain, and Big Data Analytics, ensuring students understand the latest trends and developments in these fields.

**Engagement with Industry Experts:** To provide students with a broader perspective and hands-on experience, we organized lectures, workshops, and seminars with industry experts. These sessions allowed students to interact directly with professionals from leading companies in the field, such as tech giants, startups, and consulting firms. The experts shared insights on cutting-edge technologies, including real-world applications, challenges, and opportunities in Artificial Intelligence, Machine Learning, IoT, and Blockchain.

**Collaborations and Partnerships:** We fostered collaborations with industry partners to provide students with practical exposure. These partnerships are instrumental in offering internships, research opportunities, and live projects to students. By working on these projects, students gain firsthand experience in developing solutions for real-world industry challenges, enhancing their skills and making them more employable. These collaborations also involve joint research initiatives, where students and faculty work together with industry professionals to solve complex problems.

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These initiatives underscore our commitment to providing a holistic and relevant education. By integrating industry perspectives, fostering collaborations, and encouraging research, we aim to prepare our students to excel in the ever-evolving field of emerging technologies

## vii) Report on Placement and Internship

**Action Taken:** The Department has consistently prioritized bridging the gap between academic learning and industry expectations. During the academic year 2024–2025, notable achievements were made in the areas of student placements and internships, reflecting the effectiveness of our academic framework, training initiatives, and strategic collaborations.

Our students demonstrated exceptional performance in securing job offers across a wide spectrum of reputed core companies, service-based firms, product organizations, and startups. The diversity and quality of these job offers underscore the high caliber of our graduates and the department's continued efforts to align academic content with industry standards. A significant number of students successfully transitioned from internships into full-time employment, which is a strong indicator of the practical relevance and rigor of our academic and training programs.

A multi-faceted strategy was adopted to support and prepare students for placement and internship opportunities. The Career Services Team played a pivotal role in ensuring that students were well-prepared to meet the expectations of employers. A variety of skill-building and preparatory activities were conducted, focusing on enhancing both technical and non-technical competencies.

### a) Workshops and Training Programs

The department, through its career services wing, conducted a series of focused workshops aimed at preparing students for recruitment processes. These included sessions on resume building, group discussions, mock interviews, and technical assessments. Special attention was given to pre-placement training to help students present themselves confidently and professionally during the hiring process.

### b) Soft Skills Development

Recognizing that technical excellence must be complemented by effective communication and interpersonal skills, structured soft skills training was integrated into the placement preparation framework. These sessions focused on key areas such as verbal and written communication, teamwork, leadership, time management, and emotional intelligence — all of which are crucial in today's dynamic work environment.

### c) Strategic Industry Partnerships

The department actively pursued collaborations with industries to facilitate internships, project-based learning, and final placements. These industry linkages provided students with first-hand exposure to workplace environments and helped them apply classroom knowledge to real-world challenges. Several MoUs and collaborative initiatives provided platforms for experiential learning and career progression.

### d) Alumni Mentorship and Networking Opportunities

Our extensive and engaged alumni network significantly contributed to the success of the placement and internship process. Alumni mentors conducted career guidance sessions, shared valuable insights from their professional journeys, and offered support to current students through networking opportunities and referrals. Their involvement added immense value by creating industry linkages and helping students make informed career choices.

*[Handwritten signatures and initials]*

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## e) Outcome and Impact

These collective efforts culminated in remarkable outcomes. A total of 77 students were eligible for placements, with 116 job offers secured across diverse domains. Additionally, 79 students were placed in internships, many of which were converted into full-time positions post-assessment. This not only reflects students' strong performance but also demonstrates employer confidence in our curriculum and training model.

Maximum Package Offered: ₹22.5 LPA

Minimum Package Offered: ₹2.5 LPA

Average Package: ₹5.4 LPA

The placement and internship performance for the academic year 2024–2025 has been a testament to the collective commitment of the faculty, industry collaborators, alumni, and the students themselves. With continuous enhancements to our academic offerings, robust training programs, and industry-engaged learning, the department remains dedicated to ensuring that our graduates are not only academically accomplished but also ready to take on the challenges of the professional world with confidence and competence.

## viii) Report on Infosys Spring Board, Coursera, LinkedIn Learning, and IBM Certificate Courses Completion

**Action Taken:** In alignment with the institution's vision of fostering a culture of lifelong learning and industry readiness, the Department has actively encouraged students to pursue online certification programs through reputed global platforms. During the academic year 2024–2025, a significant number of our students completed various certificate courses offered by Infosys Springboard, Coursera, LinkedIn Learning, and IBM, thereby enhancing their technical competencies and interdisciplinary knowledge.

This initiative reflects the department's proactive approach in integrating digital learning with formal education, allowing students to explore emerging technologies, acquire practical skills, and deepen their subject-matter expertise outside the conventional curriculum.

The certifications completed span a broad spectrum of domains such as Data Science, Artificial Intelligence, Cloud Computing, Cybersecurity, Programming Languages, Business Analytics, and Soft Skills. The diversity of topics and platforms reflects students' keen interest in personal development and staying abreast of technological advancements and professional expectations.

Platform-Wise Certificate Completion Statistics

**Infosys Springboard:** These courses were primarily focused on foundational technical skills, programming, communication, and project management, catering to both beginner and intermediate learners. The collaboration with Infosys offered an excellent opportunity for students to align with the expectations of a major industry player.

**Coursera:** Coursera, in partnership with leading global universities and companies, enabled students to complete high-impact courses in areas such as Machine Learning, Data Analytics, Web Development, Blockchain, Digital Marketing, and more. This extensive engagement with Coursera demonstrates our students' enthusiasm for top-tier content and globally recognized credentials.

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**LinkedIn Learning:** Students utilized LinkedIn Learning to build both technical and soft skills. Courses ranged from coding languages to leadership development, teamwork, and time management — essential attributes for workplace success. The platform's integration with career planning tools provided an added advantage.

**IBM Skill Build:** Through the IBM SkillsBuild program, students gained expertise in data handling, AI, cybersecurity, and emerging technologies. These certifications equipped them with hands-on experience in using IBM's cloud and AI tools, thus adding strong industry orientation to their profiles.

These efforts also reflect the department's emphasis on academic flexibility, personalized learning paths, and blended pedagogy, empowering students to take control of their professional growth in a rapidly changing technological environment.

The successful completion of over 6,800+ certificates during the academic year is a remarkable achievement and a testament to the department's mission of producing self-driven, skilled, and globally competent graduates.

Infosys Spring Board	: 360
Coursera Course	: 6000
Linkin Learning	: 300+
IBM	: 180

## ix) Report on NPTEL

**Action Taken:** As part of the institution's continued emphasis on academic enrichment and online learning, students were encouraged to participate in NPTEL (National Programme on Technology Enhanced Learning) courses, a flagship initiative by the Ministry of Education, Government of India. These courses are designed and delivered by faculty from premier institutions such as the IITs and IISc, offering world-class content across a diverse range of disciplines. During the academic year 2024–2025, our students achieved commendable success in completing NPTEL courses, reflecting both their academic rigor and commitment to continuous learning. The certification outcomes not only showcase individual student achievement but also reflect the department's broader objective of promoting self-paced, high-quality learning aligned with national academic standards.

Total Course Certificates	: 467
Elite Certificates	: 263
Elite + Silver Certificates	: 128
Elite + Gold Certificates	: 18
Topper	: 32

The significant number of certifications highlights the growing engagement of our students with MOOCs and underscores their ability to adapt to digital learning environments. The courses undertaken spanned core engineering subjects, programming, data science, business management, and interdisciplinary areas — thereby enhancing both domain-specific knowledge and interdisciplinary competencies.

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## Agenda Item No-3:

Report on the revision of syllabus as per AICTE norms for the 2022-2023, 2023-24 batch

i) B.Tech(Computer Science & Engineering)

### Third Semester

Sl No.	Type	Subject Code	Topic	L	T	P	S	Credit Points
THEORY								
1.	ESC	ESC301	Analog Electronic Circuits	3	0	0	0	3
2.	BSC	BSM301	Mathematics- III	3	0	0	0	3
3.	PCC	PCC301	Data structure & Algorithms	3	0	0	0	3
4.	ESC	ESC302	Digital Electronics	3	0	0	0	3
5.	HSSM	HSMCS301	Humanities-I (Principles of Management)	3	0	0	0	3
6.	HSSM	ESP301	Essential Studies for Professionals - III	2	0	0	0	0.5
PRACTICAL								
7.	ESC	ESC391	Analog Electronic Circuits Lab	0	0	4	0	2
8.	ESC	ESC392	Digital Electronics Lab	0	0	4	0	2
9.	PCC	PCC391	Data structure & Algorithms Lab	0	0	4	0	2
SESSIONAL								
10.	HSSM	SDP381	Skill Development for Professionals - III	0	0	0	2	0.5
11.	PCC	PCCCS382	IT Workshop (MATLAB)	0	1	0	4	3
12.	PROJ	PRJCS381	Innovative Project – I	0	0	0	0	1
MANDATORY REQUIREMENTS								
13.	MAR	MAR	Mandatory Additional Requirements	0	0	0	0	0
14.	MOOC	MOOCS	Massive Open Online Course	0	0	0	0	0
15.	IFC	IFC	Industry and Foreign Certification	0	0	0	0	0
TOTAL				17	1	12	6	26

### Fifth Semester

Sl No.	Type	Subject Code	Topic	L	T	P	S	Credit Points
THEORY								
1.	ESC	ESC501	Signals & Systems	3	0	0	0	3
2.	PCC	PCCCS501	Database Management Systems	3	0	0	0	3
3.	PCC	PCCCS502	Theory of Computations	3	0	0	0	3
4.	PCC	PCCCS503	Operating Systems	3	0	0	0	3
5.	PCC	PCCCS504	Software Engineering	3	0	0	0	3
6.	PCC	PCCCS575	Neural Network & Deep Learning	3	0	0	0	3
7.	MC	MCC571	Constitution of India	0	1	-	-	1
8.	HSSM	ESP(CS)501	Essential Studies for Professionals – V (CS)	2	0	0	0	0.5
PRACTICAL								
9.	PCC	PCCCS591	Database Management Systems Lab	0	0	4	0	2
10.	PCC	PCCCS593	Operating Systems Lab	0	0	4	0	2
11.	PCC	PCCCS594	Software Engineering Lab	0	0	4	0	2
SESSIONAL								
12.	HSSM	SDP581	Skill Development for Professionals - V	0	0	0	2	0.5
13.	HSSM	HSMCS581	Humanities – II (IPM)	0	3	0	0	3
14.	PROJ	PRJCS581	Innovative Project – III	0	0	0	0	1
15.	PCC	PCCCS581	Quantum Computing	0	0	0	2	1
MANDATORY REQUIREMENTS								
16.	MAR	MAR	Mandatory Additional Requirements	0	0	0	0	0
17.	MOOCs	MOOCS	Massive Open Online Course	-	-	-	-	-
18.	IFC	IFC	Industry and Foreign Certification	0	0	0	0	0
TOTAL				17	4	12	4	28

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## Seventh Semester

Sl No.	Type	Subject Code	Topic	L	T	P	S	Credit Points
<b>THEORY</b>								
1.	PCC	PCCCS701	Compiler Design	3	0	0	0	3
2.	PEC	PECCS701	Elective-III	3	0	0	0	3
3.	OEC	OECCS701	Open Elective-I	3	0	0	0	3
4.	HSSM	ESP(CS)701	Essential Studies for Professionals – VII (CS)	2	0	0	0	0.5
<b>PRACTICAL</b>								
5.	PCC	PCCCS791	Compiler Design Lab	0	0	4	0	2
<b>SESSIONAL</b>								
6.	HSSM	SDP781	Skill Development for Professionals - VII	0	0	0	2	0.5
7.	PROJ	PRJCS781	Innovative Project – II	0	0	12	0	6
8.		SICS781	Summer Internship - I	0	0	0	0	4
<b>MANDATORY REQUIREMENTS</b>								
9.	MAR	MAR	Mandatory Additional Requirements	0	0	0	0	0
10.	MOOCs	MOOCs	Massive Open Online Course	-	-	-	-	-
11.	IFC	IFC	Industry and Foreign Certification	0	0	0	0	0
<b>TOTAL</b>				<b>11</b>	<b>0</b>	<b>16</b>	<b>2</b>	<b>22</b>

#Students will undergo project/training/internship in the industry / research organization / reputed Institute during the vacation

Recommended Professional Elective Courses					
Sl. No.	Sem	Choice-1 (A) Network & Security	Choice-2 (B) AI & DS	Choice-3 (C) Theory & Systems	Choice-4 (D) Applications
PE-1	Sem-6	Blockchain (PECCS602A)	Soft Computing (PECCS602B)	Graph Theory (PECCS602C)	Image Processing (PECCS602D)
PE-2	Sem-6	Digital Forensics (PECCS603A)	Natural Language Processing (PECCS603B)	Distributed Systems (PECCS603C)	Computer Graphics (PECCS603D)
PE-3	Sem-7	Ad-hoc and Sensor Network (PECCS701A)	Warehousing and Business Intelligence (PECCS701B)	Parallel Processing (PECCS701C)	Computer Vision (PECCS701D)
PE-4	Sem-8	Data Encryption and Compression (PECCS801A)	Advanced AI (PECCS801B)	Real Time Operating Systems (PECCS801C)	Human Computer Interaction (PECCS801D)

### Offered Elective List

Catagory	Course Name	Course Code
Open Elective - I	Enterprise System	OECCS701A
	Economic Policies in India	OECCS701B

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## ii) B.Tech in Computer Science & Engineering (AIML)

### Third Semester

Sl No.	Type	Subject Code	Topic	L	T	P	S	Credit Points
<b>THEORY</b>								
1.	ESC	ESC301	Analog Electronic Circuits	3	0	0	0	3
2.	BSC	BSM301	Mathematics- III	3	0	0	0	3
3.	PCC	PCC301	Data structure & Algorithms	3	0	0	0	3
4.	ESC	ESC302	Digital Electronics	3	0	0	0	3
5.	HSSM	HSMCS301	Humanities-I (Principles of Management)	3	0	0	0	3
6.	HSSM	ESP301	Essential Studies for Professionals - III	2	0	0	0	0.5
<b>PRACTICAL</b>								
7.	ESC	ESC391	Analog Electronic Circuits Lab	0	0	4	0	2
8.	ESC	ESC392	Digital Electronics Lab	0	0	4	0	2
9.	PCC	PCC391	Data structure & Algorithms Lab	0	0	4	0	2
<b>SESSIONAL</b>								
10.	HSSM	SDP381	Skill Development for Professionals - III	0	0	0	2	0.5
11.	PCC	PCCCS382	IT Workshop (MATLAB)	0	1	0	4	3
12.	PROJ	PRJCS381	Innovative Project – I	0	0	0	0	1
<b>MANDATORY REQUIREMENTS</b>								
13.	MAR	MAR	Mandatory Additional Requirements	0	0	0	0	0
14.	MOOC	MOOCS	Massive Open Online Course	0	0	0	0	0
15.	IFC	IFC	Industry and Foreign Certification	0	0	0	0	0
<b>TOTAL</b>				17	1	12	6	26

### Fifth Semester

Sl No.	Type	Subject Code	Topic	L	T	P	S	Credit Points
<b>THEORY</b>								
1.	ESC	ESC501	Signals & Systems	3	0	0	0	3
2.	PCC	PCCCS501	Database Management Systems	3	0	0	0	3
3.	PCC	PCCCS502	Theory of Computations	3	0	0	0	3
4.	PCC	PCCCS503	Operating Systems	3	0	0	0	3
5.	PCC	PCCCS504	Software Engineering	3	0	0	0	3
6.	PCC	PCCCS575	Neural Network & Deep Learning	3	0	0	0	3
7.	MC	MCC571	Constitution of India	0	1	-	-	1
8.	HSSM	ESP(CS)501	Essential Studies for Professionals – V (CS)	2	0	0	0	0.5
<b>PRACTICAL</b>								
9.	PCC	PCCCS591	Database Management Systems Lab	0	0	4	0	2
10.	PCC	PCCCS593	Operating Systems Lab	0	0	4	0	2
11.	PCC	PCCCS594	Software Engineering Lab	0	0	4	0	2
<b>SESSIONAL</b>								
12.	HSSM	SDP581	Skill Development for Professionals - V	0	0	0	2	0.5
13.	HSSM	HSMCS581	Humanities – II (IPM)	0	3	0	0	3
14.	PROJ	PRJCS581	Innovative Project – III	0	0	0	0	1
15.	PCC	PCCCS581	Quantum Computing	0	0	0	2	1
<b>MANDATORY REQUIREMENTS</b>								
16.	MAR	MAR	Mandatory Additional Requirements	0	0	0	0	0
17.	MOOCs	MOOCS	Massive Open Online Course	-	-	-	-	-
18.	IFC	IFC	Industry and Foreign Certification	0	0	0	0	0
<b>TOTAL</b>				17	4	12	4	28

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## Seventh Semester

Sl No.	Type	Subject Code	Topic	L	T	P	S	Credit Points
<b>THEORY</b>								
1.	PCC	PCCCS701	Compiler Design	3	0	0	0	3
2.	PEC	PECCS701	Elective-III	3	0	0	0	3
3.	OEC	OECCS701	Open Elective-I	3	0	0	0	3
4.	HSSM	ESP(CS)701	Essential Studies for Professionals – VII (CS)	2	0	0	0	0.5
<b>PRACTICAL</b>								
5.	PCC	PCCCS791	Compiler Design Lab	0	0	4	0	2
<b>SESSIONAL</b>								
6.	HSSM	SDP781	Skill Development for Professionals - VII	0	0	0	2	0.5
7.	PROJ	PRJCS781	Innovative Project – II	0	0	1 2	0	6
8.		SICS781	Summer Internship - I	0	0	0	0	4
<b>MANDATORY REQUIREMENTS</b>								
9.	MAR	MAR	Mandatory Additional Requirements	0	0	0	0	0
10.	MOOCs	MOOCS	Massive Open Online Course	-	-	-	-	-
11.	IFC	IFC	Industry and Foreign Certification	0	0	0	0	0
<b>TOTAL</b>				11	0	1 6	2	22

#Students will undergo project/training/internship in the industry / research organization / reputed Institute during the vacation

Recommended Professional Elective Courses			
Sl. No.	Semester	Choice-1 Artificial Intelligence	Choice-2 Data Science
PE-1	Sem-6	Soft Computing (PECCS602B)	Data Science using Python (PECCS602K)
PE-2	Sem-6	Natural Language Processing Data (PECCS603B)	Cognitive Computing (PECCS603E)
PE-3	Sem-7	Computer Vision (PECCS701D)	Advanced Deep Learning (PECCS701L)
PE-4	Sem-8	Advanced AI (PECCS801B)	Social Media Analytics (PECCS801J)

### Offered Elective List

Catagory	Course Name	Course Code
Open Elective - I	Enterprise System	OECCS701A
	Entrepreneurship & Startups	OECCS701C

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## Agenda Item No-4

### **National Conference (Tentative – April 2026):**

We are in the preliminary stages of planning a National Conference, scheduled to be held in the first week of December 2025. The conference aims to bring together academicians, researchers, and industry experts to share knowledge and discuss advancements across various domains.

Indexing: The conference proceedings are intended to be SCOPUS indexed to ensure high visibility and scholarly impact.

### **International Conference on Cognitive Cloud and Edge Computing (IC3Ecom 2026):**

An International Conference titled "IC3Ecom 2026 – International Conference on Cognitive Cloud and Edge Computing" is being planned for the first week of February 2026. This conference will serve as a global platform for researchers and professionals to present cutting-edge developments in cloud, edge, and cognitive computing technologies.

Publication Support: Discussions are underway to secure Springer as the official publication partner for the conference proceedings.

Both events are aimed at fostering innovation, strengthening industry-academia ties, and contributing to the global research community. Further details regarding call for papers, organizing committees, and sponsorships will be shared in due course.

## Agenda Item No-5

### **Report on the initiative of various skill development programs for departmental faculty members in association with Edu-Skill.**

These programs are designed to groom the faculty members as per the requirements set by AICTE and the industry.

The following faculty members have been deployed to the respective training programs:

#### **Overall Coordinator: Prof. Dipta Mukherjee**

Prof. Dipta Mukherjee---AWS-Cloud Training

Prof. Santanu Basak -- Palo Alto Cyber Security Training

Prof. Sagarika Ghosh-- BluePrism training on RPA

Prof. Hriday Banerjee--AWS-Data Analytics

Prof. Sourav Kumar-- Celonis Academic Educator Training Program

These skill development programs are aligned with the department's objective to continuously enhance faculty skills and expertise, ensuring they can provide high-quality education and conduct research that meets industry standards. The participation of faculty members in these programs will help bridge the gap between academia and industry, preparing them to deliver relevant and up-to-date content to students.

*[Handwritten signatures and initials of faculty members]*

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## Enrollment and Completion:

Total Number of Students Enrolled: 213

Number of Students Completed: 97

Number of Students in Progress: 6

Zscaler Zero Trust Cloud Security: 1 (Scholarship)

## Agenda Item No-6

The finalization of the 3rd edition of the Yearly Departmental Magazine, which is scheduled to be officially launched on 5th September 2025, in commemoration of Teachers' Day. This annual publication serves as a comprehensive reflection of the department's academic, co-curricular, and research-oriented progress over the past year. It showcases the noteworthy achievements of students and faculty, collaborative initiatives, research contributions, outreach activities, innovation, and participation in technical forums.

**Faculty Achievements:** Research publications, patents filed, recognitions, FDP participation, and academic contributions.

**Student Accomplishments:** Placement highlights, project innovations, competitive achievements, certifications, internships, and hackathon success stories.

**Events and Activities:** Detailed coverage of seminars, workshops, conferences, club activities, and industrial visits.

**Creative Corner:** Articles, poems, technical write-ups, and artwork contributed by students and faculty members.

**Alumni Section:** Notable achievements and contributions from our alumni network.

The editorial board has worked diligently to ensure the content quality, design aesthetics, and timely execution of the publication process. The magazine will be made available both in print and digital formats for wider circulation.

This initiative continues to promote a culture of documentation, academic reflection, and creative expression within the department, aligning with our vision of holistic development and academic excellence.

## Agenda Item No-7

**Report on UEM JAIPUR ACM STUDENT CHAPTER** is planning to conduct a greater number of Eminent Speaker Program by Industry experts from various multinational companies (Both core & software) in parallel with Distinguished Speaker program.

The UEM Jaipur ACM Student Chapter's initiative to expand the Eminent Speaker Program aligns with our commitment to providing a holistic educational experience. By inviting experts from both core and software domains, the chapter aims to create a dynamic learning environment that caters to the diverse interests and career aspirations of its members.

### Upcoming Initiatives:

No. of Events : 02

Workshops : 02

Hackathons: 02

DSP: 02

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These events will feature industry leaders and academicians who will share their knowledge and experiences, providing valuable insights into the latest trends, challenges, and advancements in engineering and technology. This initiative not only enhances the students' technical skills but also broadens their horizons and helps them prepare for real-world challenges.

## Report on UEM Jaipur Coding Club

The UEM Jaipur Coding Club is planning to conduct various levels of coding competitions for the upcoming semester. Coding clubs play a crucial role in providing a platform for students to practice coding skills, collaborate on projects, and participate in competitions. They foster practical application of theoretical knowledge, nurture problem-solving abilities, and prepare students for careers in technology and software development.

### Upcoming Initiatives:

No. of Events Planning for the Upcoming Semester: 08

## Report on UEM Jaipur Gaming Club

The UEM Jaipur Gaming Club is planning to conduct various levels of gaming competitions for the upcoming semester. Gaming clubs provide a platform for students to bond over shared interests, improve teamwork and strategic thinking through competitive gameplay, and foster a sense of community within the institution. They promote social interaction, stress relief, and skill development, making them integral to campus life.

### Upcoming Initiatives:

No. of Events Planning for the Upcoming Semester: 02

## Agenda Item No-8

### To Report on Study Abroad Program(SAP)

The Department continues to emphasize global academic exposure and cross-cultural learning through its Study Abroad Program (SAP) initiatives. During the recent academic session, the department successfully organized two significant international academic engagements that provided valuable hands-on experience and research exposure to selected students.

#### 1. Global Internship Program in Cybersecurity and Data Analytics using AI – Asian Institute of Technology (AIT), Thailand

As part of the SAP initiative, a group of seven students participated in a Global Internship Program hosted by the Asian Institute of Technology (AIT), Thailand.

The internship focused on Cybersecurity and Data Analytics using Artificial Intelligence, combining lectures, practical sessions, and project work under the mentorship of AIT faculty and industry professionals.

  
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Students gained international academic exposure and hands-on experience in AI-driven security systems and data processing techniques.

This program helped bridge theoretical knowledge with real-world applications, fostering analytical thinking, innovation, and global collaboration.

Number of Students Attended: 07

Faculty Co-ordinator: Dr. G. Uma Devi

## 2. Industrial Visit and Academic Engagement – Singapore

Another significant component of the SAP was an academic-industrial visit to Singapore, where a selected group of four students explored innovation and technology in a globally recognized ecosystem.

Students visited Shimadzu (Asia Pacific) Pte. Ltd, a 150-year-old industry leader in analytical and scientific instrumentation. They observed cutting-edge industrial practices and interacted with domain experts.

As part of the academic exchange, the students presented their individual research papers at the National University of Singapore (NUS), one of the world's leading universities.

The presentations were well received, and students benefited from feedback provided by distinguished faculty and researchers in attendance.

Number of Students Attended: 04

Faculty Co-ordinator: Prof. Debajyoti Chatterjee

These international programs exemplify the department's commitment to fostering global perspectives, research exposure, and innovation-led learning among its students. The Study Abroad Program has significantly enhanced the participants' academic portfolios and broadened their horizons, preparing them for future academic and professional endeavors in a globalized environment.

## Agenda Item No-9

### **To Report on Patent and Paper Publication for the Academic Year 2024-25.**

Faculty members have actively contributed to the advancement of knowledge through high-quality publications, intellectual property filings, and research initiatives across emerging domains.

#### **1. Research Publications**

**SCIE Journals:** A total of 06 papers were published in SCIE-indexed journals, reflecting rigorous peer-reviewed research contributions with global academic impact.

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**SCOPUS-Indexed (Journals + Conferences):** Faculty members published 32 papers in SCOPUS-indexed journals and international conferences, highlighting the department's consistent involvement in disseminating scholarly research in reputed venues.

**Books:** 02 books authored by faculty members were published by recognized academic publishers, contributing comprehensive insights into contemporary areas of technology and education.

**Book Chapters:** 08 book chapters were published in edited volumes and academic compilations, showcasing interdisciplinary knowledge and collaborative research.

## 2. Intellectual Property (IP) Contributions

**Patents Filed/Granted:** Faculty members have filed or received 02 utility patents, demonstrating innovation and originality in research and application development.

**Design Patents:** A remarkable number of 24 design patents were filed/granted, emphasizing creativity and applied research in system interfaces, product design, and educational tools.

## 3. Research Projects

A total of 20 research projects were undertaken by faculty members, including both government-funded and industry-collaborated projects.

These achievements reflect the department's strong commitment to academic excellence, research innovation, and impactful contributions to society and industry. Continued efforts are being made to further encourage a culture of high-quality research, patent development, and interdisciplinary collaboration among faculty and scholars.

## Agenda Item No-10

### Report on MoU with an industry for the forthcoming academic year 2024-25

SAS for Data Science education is a significant step in our commitment to providing high-quality, industry-relevant education. This collaboration aligns with our vision of preparing students for successful careers in the dynamic field of Data Science

#### 1. BTECH in DATA SCIENCE

S.No	SAS Global Certification		Semester	SAS Course Name	Duration (hours)
1	AI and Machine Learning Professional	Cert 1: SAS Certified Specialist: Machine Learning	Sem - I	Analytics Programming Fundamentals	30
2				SAS Programming in Viya	20
3			Sem - II	SAS® Enterprise Guide®: ANOVA, Regression, and Logistic Regression	40
4				Application of Machine Learning Using SAS(R) Viya®	40
5		Sem - III	SAS® Visual Text Analytics in SAS® Viya®	40	
6			Neural network: Essentials	40	
7		Sem - IV	Deep Learning Using SAS® Software	40	
8			Forecasting Using Model Studio in SAS® Viya®	40	
9		Cert 3: SAS Certified Specialist: Forecasting and Optimization	Sem - V	Optimization Concepts for Data Science and Artificial Intelligence	40
Total					330

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## Agenda Item No-11

### **Report on Major-Minor degree program for forthcoming academic Year 24-25**

The new initiative for the Major-Minor degree program for the academic year 2024-25 marks a significant development in the academic offerings at UEM Jaipur. This program provides students with the flexibility to pursue core engineering subjects as their minor degree. It aims to foster interdisciplinary knowledge, preparing students for diverse career paths and enhancing their academic versatility. By allowing dual-degree pursuits, we aim to meet the evolving demands of the industry and empower students to excel in their chosen fields with a well-rounded skill set.

**Interdisciplinary Knowledge:** The Major-Minor program encourages students to broaden their academic horizons by integrating subjects from different engineering domains. This initiative helps students gain a more comprehensive understanding of the interconnected fields, enhancing their problem-solving skills and adaptability in the workplace.

**Career Preparation:** By pursuing a minor in addition to their major, students can specialize in a complementary field, making them more attractive to employers who value diverse expertise. This initiative aims to meet the increasing demand for multi-skilled professionals in industries like IT, telecommunications, and sustainable development.

#### **Registered Students:**

AIML: 35

Cyber Security: 74

Data Science: 52

IOT: 49

Robotics: 5

Sustainability: 20

## Agenda Item No-12

### **Any Suggestions and Recommendation from External Expert Members**

#### **I. IEEE Publication and Research Enhancement Initiatives**

Promoting high-quality research is vital for institutional visibility and academic impact. To this end, it is suggested that faculty and students be encouraged to publish in reputed journals through IEEE Open Access. A 75% discount has already been secured, and it is proposed that the remaining 25% of the publication fee be sponsored by the university. This initiative aims to incentivize academic publishing and reduce financial barriers.

Furthermore, a policy to upgrade select conference papers into full-length journal submissions is proposed. Papers demonstrating strong potential should be enhanced and submitted to IEEE or other SCIE-indexed journals to further increase their reach and citation potential. This practice not only improves the quality of research output but also elevates the academic reputation of the institution.

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## II. Curriculum and Syllabus Reforms

Modernization of the curriculum is a critical step in ensuring that students graduate with skills relevant to current industry demands. Several targeted revisions are proposed:

Firstly, the inclusion of "**Professional Ethics**" under the subject code ESP301 is recommended to instill values and ethical reasoning among students.

The **Data Structures and Algorithms (DSA)** course should be revised by introducing a mandatory **tutorial component**, and its practical workload should be restructured to 4 hours per week (2 units). These changes aim to strengthen foundational knowledge through hands-on practice.

In an effort to make the Computer Science curriculum more focused and relevant, it is recommended to remove analog electronics subjects from the syllabus, which often do not directly support core CS learning objectives. Moreover, it is proposed to merge **Theory of Computation (TOC) with Compiler Design**, as TOC alone is often found to be too abstract for practical application in undergraduate programs.

Case study-based sessional papers should be introduced, emphasizing real-world domains such as healthcare systems, computer vision, and firewall threat detection. These papers will encourage students to engage with current technological challenges and develop analytical problem-solving skills.

Additionally, several subject name updates are suggested to reflect industry norms and modern terminologies. For example, "**DBMS**" should be renamed to "**Database Systems**," "**Graph Theory**" to "**Graph Models**," and "**Parallel Processing**" to "**Parallel Programming**."

## III. Elective Track Improvements and Subject Realignment

To optimize the elective structure, it is proposed that certain topics be repositioned for better flow and student comprehension. For instance, "**Blockchain Technology**" should be shifted from running parallel to "**Computer Networks**" to the 5th semester. "**Wireless Communication and Ad-hoc Networks**" should be introduced in the 3rd semester to replace outdated analog content.

In Elective Track IV, it is suggested to replace "**Computer Graphics**" with "**Pattern Recognition**," a more contemporary and industry-relevant subject. Additionally, new electives focusing on tools such as **Natural Language Processing (NLP)** using Python are recommended, alongside the introduction of subjects like Nature-Inspired Algorithms under the Soft Computing domain.

## IV. Institutional and Student-Centric Development Proposals

To further promote research, international exposure, and innovation, the following recommendations are proposed:

*[Handwritten signatures and initials are present at the bottom of the page, including names like 'Nitya', 'S. Sanjay', and 'Raj'.]*

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A structured approach should be adopted to promote peer-based learning by analyzing and comparing successful and unsuccessful academic papers across campuses. This will help students understand quality benchmarks and common pitfalls. Weekly progress reports through EduSkill platforms should also be institutionalized to monitor skill development and learning outcomes.

The suggestions outlined in this report represent a forward-thinking approach to curriculum enhancement, research promotion, and institutional development.

I extend my heartfelt gratitude to our distinguished guests and experts for gracing us with their presence today. Your invaluable insights have enriched our discussions and expanded our horizons. The suggestions and recommendations from our esteemed external experts offer new perspectives to enhance our institution's operations and growth.

Thank you once again for your presence, support, and valuable contributions.



Sincerely yours,

Prof. (Dr.) G. Uma Devi,  
HoD, Dept. of Computer Science & Engineering,  
UEM Jaipur, Raj-303807.



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## Department of Computer Science & Engineering

### Attendance Sheet for 16<sup>th</sup> Meeting of Board of Studies

09.07.2025

Sl. No.	Name	Designation	Signature
1.	Dr. G. Uma Devi	HoD, Dept. of CSE, UEM Jaipur.	
2.	Dr. Asif Ekbal	Professor, School of Artificial Intelligence and Data Science, IIT Jodhpur, Jodhpur	
3.	Dr. Mushtaq Ahmed	Asso. Professor & HoD, Dept. of CSE, MNIT, Jaipur	
4.	Mr. Manish Sahu	COO, Kreeti Technologies Pvt. Ltd.	
5.	Mr. Freddy Walespathy	Senior Business Manager, SaS Pvt. Ltd.	
6.	Dr. Tapas Si	Professor, Dept. of CSE, UEM Jaipur.	
7.	Dr. Rahul Kumar Garg	Asso. Professor, Dept. of CSE, UEM Jaipur.	
8.	Dr. Abheek Gupta	Asso. Professor, Dept. of CSE, UEM Jaipur.	
9.	Dr. Jyoti Khandelwal	Asso. Professor, Dept. of CSE, UEM Jaipur.	
10.	Mr. Dipta Mukherjee	Asst. Professor, Dept. of CSE, UEM Jaipur.	
11.	Ms. Sagarika Ghosh	Asst. Professor, Dept. of CSE, UEM Jaipur.	on maternity leave
12.	Mr. Pravesh Kumar Bansal	Asst. Professor, Dept. of CSE, UEM Jaipur.	
13.	Mr. Santanu Basak	Asst. Professor, Dept. of CSE, UEM Jaipur.	
14.	Mr. Hriday Banerjee	Asst. Professor, Dept. of CSE, UEM Jaipur.	
15.	Ms. Jyoti Anand	Asst. Professor, Dept. of CSE, UEM Jaipur.	
16.	Mr. Debajyoti Chatterjee	Asst. Professor, Dept. of CSE, UEM Jaipur.	
17.	Mr. Soumya Sen	Asst. Professor, Dept. of CSE, UEM Jaipur.	
18.	Mr. Sourav Kumar	Asst. Professor, Dept. of CSE, UEM Jaipur.	
19.	Mr. Soumen Sarkar	Asst. Professor, Dept. of CSE, UEM Jaipur.	
20.	Mr. Sudheer Kumar	Asst. Professor, Dept. of CSE, UEM Jaipur.	

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