



Department of Computer Science and Engineering

Scheme of Evaluation

B. Tech. VII Semester (*CSE*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted									Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam
				Theory Slot				Practical Slot			MOOCs								
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assign ment	Exam							
				End Sem. Exam.	*Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignm ent		Lab work & Sessional	Skill Based Mini Project									
1.	DE	DE	* Departmental Elective (DE-2)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	MCQ
2.	DE	DE	* Departmental Elective (DE-3)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	MCQ
3.	OC	OC	# Open Category (OC-2)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	MCQ
4.	2150701	DLC	Departmental Lab	-	-	-	-	60	20	20	-	-	100	-	-	6	3	Offline	SO
5.	2150702	DLC	Creative Problem Solving	-	-	-	-	25	25	-	-	-	50	-	-	4	2	Offline	SO
6.	2150703	DLC	** Professional Skills & Competencies	-	-	-	-	40	60	-	-	-	100	-	-	4	2	Offline	MCQ
7.	2150704	DLC	Summer Internship Project-III (04 weeks) (Evaluation)	-	-	-	-	60	-	-	-	-	60	-	-	4	2	Interactive	SO
Total				50	10	20	20	185	105	20	50	150	610	9	-	18	18		
8.		MAC	Universal Human Values & Professional Ethics (UHVPE)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Blended	MCQ
Additional Course for Honours or minor Specialization				Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization															

*Proficiency in subject / course – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained, etc. in that particular course/subject

** Professional Skills & Competencies will include and prepare the students on coding skills, technical proficiency (industry readiness and higher studies), aptitude, communication & soft skill set, etc.

*Course will run through SWAYAM/NPTEL platform with credit transfer

#Course will run through MITS MOOCs

MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral

Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral



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Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	NEC	Theory			Lab	SIP/SLP/NEC	
Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
		9	7	2			9	7	2	18
		50	38.8	11.2			50	38.8	11.2	Credits %

DE-2*		
S. No.	Subject Code	Subject Name
1.	2150711	Reinforcement Learning-noc25-cs92(12week)
2.	2150712	Big Data Computing-noc25-cs131(08week)
3.	2150713	Design & Implementation of Human-Computer Interfaces-noc25-cs135(12week)

DE-3*		
S. No.	Subject Code	Subject Name
1.	2150721	Deep Learning - IIT Ropar-noc25-cs106 (12week)
2.	2150722	Approximation Algorithm-noc25-cs153(12week)
3.	2150723	Deep Learning for Computer Vision-noc25-cs93 (12week)

OC-2 [#]		
S. No.	Subject Code	Subject Name
1.		Data Structures
2.		Web Technologies
3.		Soft Computing



List of courses to be opted for Honors or Minor specialization in VII Semester

Minor Specialization*(to be opted by students of Other Department)

Software Engineering-noc25-cs108 (12 week)
Programming in Java-noc25-cs110 (12 week)
Computer Graphics-noc25-cs133 (08 week)

Honors*(to be opted by students of Parent Department)

Track1	Course
Information Security	Privacy and Security in Online Social Media-noc25-cs117 (12 week)
	Practical Cyber Security for Cyber Security Practitioners-noc25-cs120 (12 week)
	Responsible & Safe AI Systems-noc25-cs118 (12 week)
	Secure Computation: Part II-noc25-cs128 (12 week)
IoT	Advanced Distributed Systems-noc25-cs84 (12 week)
	Hardware Modeling using Verilog-noc25-cs155 (08 week)
High Performance Computing	Parameterized Algorithms-noc25-cs96 (12 week)
	Statistical Learning for Reliability Analysis-noc25-cs139(12 week)
	Stochastic Approximation: Theory and Applications-noc25-cs111 (12 week)

* Course run through SWAYAM/NPTEL/MOOC Learning Based Platform



Department of Computer Science and Engineering
Scheme of Evaluation
B. Tech. V Semester (CSE)

(for batch admitted in academic session 2023-24)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	3150511	DC	Data Science	50	10	20	20	40	30	30	200	2	1	2	4	Blended	MCQ	1.5 Hrs
2.	3150512	DC	Networking with TCP/IP	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
3.	3150513	DC	Information Security	50	10	20	20	40	30	30	200	3	-	2	4	Blended	PP	2 Hrs
4.	3150514	DC	Compiler Design	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
5.	3150515	DC	Cloud Computing and Virtualization	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
6.	3150516	DLC	Minor Project-I**	-	-	-	-	40	60	-	100	-	-	4	2	Offline	SO	
7.	3150517	DLC	Soft Skill Internship (Institute Level Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	SO	SO	-
8.	3150518	SEMINAR SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	-	-	-	-	-	40	-	40	-	-	2	1	Online and Mentoring	SO	-
9.	2000XXX	CLC	Novel Engaging Course	-	-	-	-	50	-	-	50	-	-	2	1	interactive	SO	-
Total				250	50	100	100	230	160	60	950	13	03	16	24			
10.	1000006 ^{SS}	MAC	Disaster Management	50	10	20	20	-	-		100	2	-	-	Grade	Online	MCQ	1.5 Hrs

\$Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question **AO:** Assignment + Oral **PP:** Pen Paper **SO:** Submission + Oral



Mode of Teaching						Mode of Examination					Total Credits
Theory				Lab	NEC	Theory			Lab	SIP/SLP/NEC	
Offline	Online	Blended		Offline	Interactive	PP	AO	MCQ	SO	SO	
		Offline	Online								
		16	-	7	1	14	-	04	02	04	24
		67	-	29	4	58	-	17	8	17	Credits %

List of courses to be opted for Honors or Minor specialization in V Semester

Minor Specialization*(to be opted by students of Other Department)

Operating System Fundamentals-noc25-cs141 (12 week)

Computer Architecture-noc25-cs83 (12 week)

Programming, Data Structures and Algorithms using Python-noc25-cs89 (08 week)

Honors*(to be opted by students of Parent Department)

Track1	Course
Information Security	Cyber Security and Privacy-noc25-cs116 (12 week)
	Ethical Hacking-noc25-cs142 (12 week)
IoT	Introduction to Internet of Things-noc25-cs147 (12 week)
	Introduction to Industry 4.0 and Industrial Internet of Things-noc25-cs146 (08 week)
High Performance Computing	Multi-Core Computer Architecture-noc25-cs134 (12 week)
	Randomized Methods in Complexity-noc25-cs122 (12 week)

***Course run through SWAYAM/NPTEL/MOOC Learning Based Platform**



Department of Computer Science and Engineering
Scheme of Evaluation
B. Tech. III Semester (*Computer Science and Engineering*) (for batch admitted in academic session 2024-25)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Exam.	Duration of Major Exam.
				Theory Block				Practical Block									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation								
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional									
1.	15242101	BSC	Engineering Mathematics-II	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	15242102	DC	Data Structures	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	15242103	DC	Database Management System	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	15242104	DC	Software Engineering	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	15242105	DC	Computer Networks	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
6.	15242106	DLC	Data Structures Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	15242107	DLC	Database Management System Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	15242108	DLC	Problem Solving through Python Programming	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
9.	15242109	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
10.	15242110	PBL	Macro Project-I [#]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
11.	15242111	SLP	Self-learning/Presentation ^{sss} (SWAYAM/NPTEL/MOOC)	-	-	-	-	40	-	40	-	-	2	1	Mentoring	SO	-
12.	NECXXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
Total				125	125	100	150	420	120	1040	11	05	12	22	-	-	-
13.	15242112	MAC	Cyber Security	25	25	20	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
14.	15242113	MWS	Mandatory Workshop on Mastering Competitive Success at Department Level											GRADE	Interactive	MCQ	-
Skill Internship Program (Institute Level) (Qualifier): Minimum 30 hours duration: To be Created in IV Semester																	

Skill Internship Program (Institute Level) (Qualifier): Minimum 30 hours duration: To be Created in IV Semester

Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

Multiple Choice Question **AO:** Assignment + Oral **PP:** Pen Paper **SO:** Submission + Oral **OB:** Open Book

Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

Library registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance and presentation.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
0	1	0	4	0	0	0	3	1	1	1	1	0	1	1	1



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Mode of Learning							Mode of Examination							Total Credits
Theory		Lab				NEC	Theory				Lab		NEC	
Face to Face	Online	Face to Face	Mentoring	Experiential	Experimental	Interactive	PP	AO	MCQ	OB	SO	AO	SO	
15		1	1	1	3	1	6		9		3	3	1	22
68.5		4.5	4.5	4.5	13.5	4.5	27.7		40.8		13.5	13.5	4.5	Credits %



Department of Computer Science and Engineering

Scheme of Evaluation

B. Tech. I Semester (*Computer Science and Engineering*) (for batch admitted in academic session 2025-26)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Exam.	Duration of Major Exam.
				Theory Block				Practical Block									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation		L	T	P				
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional									
1.	15251101	DC	Emerging Technologies in Computer Science	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	15251102	ESC	Computer Programming	25	25	20	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
3.	15251103	DC	Digital Electronics	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	15251104	DC	Cyber World and Security Concern	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	15251105	BSC	Engineering Mathematics-I	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
6.	15251106	DLC	Computer Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	15251107	DLC	Digital Electronics Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	15251108	SP	Semester Proficiency [§]	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	15251109	PBL	Micro Project-I [¶]	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	15251110	HSMC	Language Lab	-	-	-	-	70	30	100	-	-	2	1	Blended	AO	-
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
Total				125	125	100	150	380	120	1000	12	03	10	20	-	-	-
12.	15251112	MAC	Universal Human Values & Professional Ethics (UHVPE)	25	25	20	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	15251113	MWS	Mandatory Workshop on Report Writing at Department Level											GRADE	Interactive	MCQ	-
14.	15251114	MWS	Mandatory Workshop on Indian Constitution and Cultural Values at Department Level											GRADE	Interactive	MCQ	
Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.																	
Skill Internship Program (Soft Skill): Minimum 45 hours duration: To be Created in II Semester.																	

Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral OB: Open Book

Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	1	1	3	0	0	0	2	1	1	0	0	0	1	1	1



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Mode of Learning							Mode of Examination							Total Credits
Theory		Lab				NEC	Theory				Lab		NEC	
Face to Face	Online	Face to Face	Blended	Experiential	Experimental	Interactive	PP	AO	MCQ	OB	SO	AO	SO	
14		1	1	1	2	1	6		8		2	3	1	20
70		5	5	5	10	5	30		40		10	15	5	Credits %