

Dr. Ambedkar Institute of Technology
 (An Autonomous Institute affiliated to VTU, Accredited by NAAC with 'A' grade)
Department of Telecommunication Engineering
 SCHEME OF TEACHING AND EXAMINATION I SEMESTER (Autonomous) 2020-21, 2021-22
 M. Tech in Computer Science & Engineering

I semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/ Seminar/ Assignment	Practical / Project	CIE	SEE	Total	
1	20SCS11	Probability Statistics and Queueing Theory (Maths)	MAT	4	-	-	50	50	100	3
2	20SCS12	Cloud Computing Theory and Practices	CSE	4	-	-	50	50	100	3
3	20SCS13	Internet of Things	CSE	4	-	-	50	50	100	3
4	20SCS14	Soft Computing	CSE	4	-	-	50	50	100	3
5	20SCS15X	ELECTIVE – I	CSE	4	-	-	50	50	100	3
6	20SCS16X	ELECTIVE – II	CSE	4	-	-	50	50	100	3
7	20SCSL17	IoT Laboratory	CSE	-	-	3	50	50	100	2
8	20SCSS18	Technical Seminar	CSE	-	4	-	50	-	50	2
9	20SCSM19	Minor project	CSE	-	-	6	50	-	50	2
Total							450	350	800	24

Technical Seminar: Seminar on Advanced topics from refereed journals by each student.

ELECTIVE - I			ELECTIVE - II	
Sl.No	Sub Code	Subject title	Subject Code	Subject title
1	20SCS151	Advanced Operating System	20SCS161	Introduction to Blockchain Technology
2	20SCS152	Advances in Computer Network	20SCS162	Advanced Algorithms and Data structure
3	20SCS153	Artificial Intelligence and Prolog Programming	20SCS163	Cyber Security and Cyber Laws
4	20SCS154	Parallel Computing with GPU Architecture	20SCS164	Computational Intelligence

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 SCHEME OF TEACHING AND EXAMINATION II SEMESTER (Autonomous) 2020-21, 2021-22
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II semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/ Seminar/ Assignment	Practical / Project	CIE	SEE	Total	
1	20SCS21	Managing Big Data	CSE	4	-	-	50	50	100	3
2	20SCS22	Advanced Database Systems	CSE	4	-	-	50	50	100	3
3	20SCS23	Cryptography & Network Security	CSE	4	-	-	50	50	100	3
4	20SCS24	Data Science and Machine Learning Techniques	CSE	4	-	-	50	50	100	3
5	20SCS25X	ELECTIVE – III	CSE	4	-	-	50	50	100	3
6	20SCS26X	ELECTIVE – IV	CSE	4	-	-	50	50	100	3
7	20RM27	Research Methodology	CSE	2	--	-	50	50	100	2
8	20SCSL28	Data Science and Machine Learning Laboratory	CSE	-	-	3	50	50	100	2
9	20SCSP29	Project Phase - I	CSE	-	-	6	50	-	50	2
Total							450	400	850	24

ELECTIVE - III			ELECTIVE - IV	
Sl.No	Sub Code	Subject title	Subject Code	Subject title
1	20SCS251	Natural Language Processing	20SCS261	Business Analytics
2	20SCS252	Industry Elective (TCS)	20SCS262	Deep Learning
3	20SCS253	Agile Methodologies	20SCS263	Storage Area Network
4	20SCS254	Wireless Networks & Mobile Computing	20SCS264	Intelligent Systems

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SCHEME OF TEACHING AND EXAMINATION III SEMESTER (Autonomous) 2020-21, 2021-22
M. Tech in Computer Science & Engineering

III semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/ Seminar/ Assignment	Practical / Field Work	CIE	SEE	Total	
1	20SCS31	Self Study – Massive Open Online Course (MOOC)	CSE	--	8	--	50	50	100	4
2	20SCSI32	Internship	CSE	--	--	16	50	50	100	8
3	20SCSS33	Technical Seminar	CSE	-	4	-	50	-	50	2
4	20SCSP34	Evaluation of Project Work Phase I	CSE	-	-	12	50	50	100	6
Total							200	150	350	20

* List of MOOC course shall be decided in the Board of Studies meeting Students shall register for NPTEL-MOOC during 2nd semester and shall be completed before the last working day of the 3rd semester. The certificate and assignment and examination scores should be submitted to the examination section.

* The student shall make a midterm presentation of the activities undertaken during the first 8 weeks of internship to a panel comprising Internship Guide, a senior faculty from the department and Head of the Department.
 The College shall facilitate and monitor the student internship program.
The internship report of each student shall be submitted to the Institute.

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 SCHEME OF TEACHING AND EXAMINATION IV SEMESTER (Autonomous) 2020-21, 2021-22
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IV semester

Sl. No.	Sub Code	Subject Title	Teaching Department	Teaching hours per week			Maximum Marks allotted			Examination Credits
				Lecture	Tutorial/ Seminar/ Assignment	Practical / Field Work	CIE	SEE	Total	
1	20SCSP41	Project Phase – II Midterm Internal Evaluation	CSE	-	-	8	100	-	100	2
2	20SCSP42	Project Work Evaluation and Viva Voce	CSE	-	4	24	100	100	200	18
Total							200	100	300	20
Grand Total (I to IV Semester) : 2300 Marks ; 88 Credits										

- * The student shall make a midterm presentation of the activities undertaken during the first 8 weeks of internship to a panel comprising Internship Guide, a senior faculty from the department and Head of the Department.
- # The College shall facilitate and monitor the student internship program.

The internship report of each student shall be submitted to the Institute.

Note:

- 1) Project Phase – I : 6 weeks duration shall be carried out during III Semester. Candidates in consultation with the guides shall carryout literature survey / visit to Industries to finalize the topic of dissertation.
- 2) Project Phase – II : 16 weeks duration during IV Semester. Evaluation shall be taken during the IV Semester. Total Marks shall be 100.
- 3) Project Work Evaluation and viva-voce: 24 weeks duration in IV Semester. Project Work Evaluation shall be taken up at the end of the IV Semester. Project Work Evaluation and Viva-Voce Examinations shall be conducted. Total Marks shall be 200 (Phase –II Evaluation: 100 Marks, Project Evaluation marks by Internal Examiner (guide): 50, Project Evaluation marks by External Examiner: 50, and 100 for viva-voce).

Marks of Evaluation of Project:

1. During Project Phase – I, finalise titles and submit synopsis to the Institute along with Project Work report at the end of the Semester.
2. During the final viva, students have to submit all the reports.
3. The Project Valuation and Viva-Voce will be conducted by a committee consisting of the following:
 - a) Head of the Department (Chairman)
 - b) Internal examiner (Guide)
 - c) External examiner proposed by the Chairman, BoE (PG)