

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination - 2018-19										
M.Tech in Communication Systems/ Digital Communication & Networking/ Digital Communication Engineering/ Digital Electronics & Communication Systems/ Digital Electronics & Communication (ECS)										
Choice Based Credit System (CBCS)										
I SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ELD11	Advanced Engineering Mathematics	04	--	03	40	60	100	4
2	PCC	18ECS12	Advanced Digital Signal Processing	04	--	03	40	60	100	4
3	PCC	18EVE13	Advanced Embedded System	04	--	03	40	60	100	4
4	PCC	18ECS14	Advanced Communication Systems-1	04	--	03	40	60	100	4
5	PCC	18ECS15	Advanced Communication Networks	04	--	03	40	60	100	4
6	PCC	18ECSL16	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
Note: PCC: Professional core										
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 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 failed and have to complete during the subsequent University examination after satisfying the internship requirements.										


PRINCIPAL
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 Vidyanagar, Bengaluru-562 157

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II SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18ECS21	Advanced Communication Systems-2	04	--	03	40	60	100	4
2	PCC	18ECS22	Antenna Theory and Design	04	--	03	40	60	100	4
3	PCC	18ECS23	Error Control Coding	04	--	03	40	60	100	4
4	PEC	18XXX24X	Professional Elective 1	04	--	03	40	60	100	4
5	PEC	18XXX25X	Professional Elective 2	04	--	03	40	60	100	4
6	PCC	18ECSL26	Advanced Communication Lab	--	04	03	40	60	100	2
7	PCC	18ECS27	Technical Seminar	--	02	--	10	--	100	2
TOTAL				20	06	18	340	360	700	24

Note: PCC: Professional core, PEC: Professional Elective

Professional Elective 1		Professional Elective 2	
Course Code under 18XXX24X	Course title	Course Code under 18XXX25X	Course title
18ECS241	Wireless Sensor Networks	18ECS251	Multimedia Over Communication links
18EVE242	Nanoelectronics	18ESP252	Statistical Signal Processing
18ECS243	Cryptography and Network Security	18ELD253	Micro Electro Mechanical Systems

Note:

- 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 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.

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III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ECS31	LTE 4G Broadband	04	--	03	40	60	100	4
2	PEC	18XXX32X	Professional Elective 3	04	--	03	40	60	100	4
3	PEC	18XXX33X	Professional Elective 4	04	--	03	40	60	100	4
4	Project	18ECS34	Evaluation of Project phase -1	--	02	--	10 0	--	100	2
5	Internship	18ECSI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				12	02	12	260	240	500	20
Note: PCC: Professional core, PEC: Professional Elective										
Professional Elective 3					Professional Elective 4					
Course Code under 18XXX32X		Course title		Course Code under 18XXX33X		Course title				
18ECS321		Advances in Image Processing		18ECS331		RF and Microwave Circuit Design				
18ESP322		Array Signal Processing		18ESP332		Pattern Recognition & Machine Learning				
18ECS323		Real Time Systems		18ECS333		IoT				
Note:										
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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IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Field work/ Assignmen t	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	18ECS41	Project work Phase -2	--	04	03	40	60	100	20
TOTAL				--	04	03	40	60	100	20

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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 Project work Phase -2
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