

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018-19
M.Tech COMPUTER NETWORK ENGINEERING (SCN)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

I SEMESTER										
Sl. No	Course	Course Code	CourseTitle	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18SCN11	MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE	04	--	03	40	60	100	4
2	PCC	18SCN12	Advances in Computer Networks	04	--	03	40	60	100	4
3	PCC	18SCN13	Information and Network Security	04	--	03	40	60	100	4
4	PCC	18SCN14	Internet of Things	04	--	03	40	60	100	4
5	PEC	18SCN15X	Professional Elective -1	04	--	03	40	60	100	4
6	PCC	18SCNL16	Computer Networks And Iot Laboratory	-	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, PEC: Professional Elective.										
Professional Elective 1										
Course Code under 18SCN15X		Course title								
18SCN151		Wireless Networks & Mobile Computing								
18SCN152		Multi Core Architecture and Programming								
18SCN153		Social Network Analysis								
18SCN154		Cloud Security								
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.										

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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	18SCN21	Multimedia Communications	04	--	03	40	60	100	4
2	PCC	18SCN22	Network Programming	04	--	03	40	60	100	4
3	PCC	18SCN23	Wireless Ad hoc Networks	04	--	03	40	60	100	4
4	PEC	18SCN24X	Professional elective 2	04	--	03	40	60	100	4
5	PEC	18SCN25X	Professional elective 3	04	--	03	40	60	100	4
6	PCC	18SCNL26	Mini Project	--	04	03	40	60	100	2
7	PCC	18SCN27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				20	06	18	340	360	700	24
Note: PCC: Professional core, PEC: Professional Elective.										
Professional Elective 2					Professional Elective 3					
Course Code under 18SCN24X		Course title			Course Code under 18SCN25X		Course title			
18SCN241		Advances in Storage Area Network			18SCN251		Wireless Sensor Networks			
18SCN242		Switching & Statistical Multiplexing In Telecommunications			18SCN252		Managing Big Data			
18SCN243		Ethernet Technology			18SCN253		Network Management			
18SCN244		Mobile Application Development			18SCN254		Advances In Operating Systems			
Note:										
<p>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.</p> <p>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.</p> <p>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.</p>										

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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	18SCN31	Cloud Computing	04	--	03	40	60	100	4
2	PEC	18SCN32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18SCN33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18SCN34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18SCNI35	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 4		Professional elective 5	
Course Code under 18SCN32X	Course title	Course Code under 18SCN33X	Course title
18SCN321	Computer Systems Performance Analysis	18SCN331	Analysis of Computer Networks
18SCN322	Network Routing Algorithm	18SCN332	Protocol Engineering
18SCN323	Information Security Policies in Industry	18SCN333	Web Engineering
18SCN324	Machine Learning Techniques	18SCN334	Web Mining

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	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce		Total Marks
1	Project	18SCN41	Project work phase -2	--	04	03	40	60	100	20
TOTAL				--	04	03	40	60	100	20
<p>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.</p>										

