

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech COMPUTER ENGINEERING (SCE)										
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	18SCE11	Mathematical Foundation of Computer Science	04	--	03	40	60	100	4
2	PCC	18SCE12	Advanced Digital Design	04	--	03	40	60	100	4
3	PCC	18SCE13	Embedded Computing Systems	04	--	03	40	60	100	4
4	PCC	18SCE14	Cloud Computing	04	--	03	40	60	100	4
5	PEC	18SCE15X	Professional Elective -1	04	--	03	40	60	100	4
6	PCC	18SCEL16	Embedded Computing 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 18SCE15X		Course title								
18SCE151		Computer Systems Performance Analysis								
18SCE152		Distributed Operating System								
18SCE153		Advances in Computer Architecture								
18SCE154		Data Mining & Data Warehousing								
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	18SCE21	Managing Big Data	04	--	03	40	60	100	4
2	PCC	18SCE22	Multi Core Architecture and Programming	04	--	03	40	60	100	4
3	PCC	18SCE23	Internet of Things	04	--	03	40	60	100	4
4	PEC	18SCE24X	Professional elective 2	04	--	03	40	60	100	4
5	PEC	18SCE25X	Professional elective 3	04	--	03	40	60	100	4
6	PCC	18SCEL26	Mini Project	--	04	03	40	60	100	2
7	PCC	18SCE27	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 18SCE24X		Course title			Course Code under 18SCE25X		Course title			
18SCE241		Wireless Networks & Mobile Computing			18SCE251		Wireless Sensor Networks			
18SCE242		Pattern Recognition			18SCE252		Advances in Data Base Management System			
18SCE243		Natural Language Processing and Text Mining			18SCE253		Decision Support System			
18SCE244		Cyber Security and Cyber law			18SCE254		Computer Vision			
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	18SCE31	ARM Processors	04	--	03	40	60	100	4
2	PEC	18SCE32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18SCE33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18SCE34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18SCEI35	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 18SCE32X	Course title			Course Code under 18SCE33X	Course title					
18SCE321	Machine Learning Techniques			18SCE331	Cloud Security					
18SCE322	Multimedia Communications			18SCE332	Database Security					
18SCE323	Advances in Storage Area Network			18SCE333	Software Defined Networks					
18SCE324	Agile Technologies			18SCE334	Object Oriented Software Engineering					
Note:										
<p>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.</p> <p>SEE (University examination) shall be as per the University norms.</p> <p>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.</p> <p>Internship SEE (University examination) shall be as per the University norms.</p>										

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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	18SCE41	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.										

