

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech NETWORK AND INTERNET ENGINEERING (LNI)										
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	18LNI11	Mathematical Foundation of Computer Science	04	--	03	40	60	100	4
2	PCC	18LNI12	Semantic Web and Social Networks	04	--	03	40	60	100	4
3	PCC	18LNI13	Information and Network Security	04	--	03	40	60	100	4
4	PCC	18LNI14	Network Programming	04	--	03	40	60	100	4
5	PEC	18LNI15X	Professional Elective -1	04	--	03	40	60	100	4
6	PCC	18LNI16	Information and Network Security and Network Programming Laboratory	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
<b>TOTAL</b>				<b>22</b>	<b>04</b>	<b>21</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>24</b>
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional Elective 1</b>										
<b>Course Code under 18LNI15X</b>		<b>Course title</b>								
18LNI151		Cloud Computing								
18LNI152		Multimedia Communications								
18LNI153		Ethernet Technology								
18LNI154		Network Management								
<b>Internship:</b> 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	18LNI21	Network Protocol Design	04	--	03	40	60	100	4
2	PCC	18LNI22	Internet of Things	04	--	03	40	60	100	4
3	PCC	18LNI23	Protocol Engineering	04	--	03	40	60	100	4
4	PEC	18LNI24X	Professional elective 2	04	--	03	40	60	100	4
5	PEC	18LNI25X	Professional elective 3	04	--	03	40	60	100	4
6	PCC	18LNI26	Mini Project	--	04	03	40	60	100	2
7	PCC	18LNI27	Technical Seminar	--	02	--	100	--	100	2
<b>TOTAL</b>				<b>20</b>	<b>06</b>	<b>18</b>	<b>340</b>	<b>360</b>	<b>700</b>	<b>24</b>
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional Elective 2</b>					<b>Professional Elective 3</b>					
<b>Course Code under 18LNI24X</b>		<b>Course title</b>			<b>Course Code under 18LNI25X</b>		<b>Course title</b>			
18LNI241		Wireless Ad hoc Networks			18LNI251		Managing Big Data			
18LNI242		Web Services			18LNI252		Software Agents			
18LNI243		Advances in Storage Area Network			18LNI253		Bioinformatics			
18LNI244		Cyber Security and Cyber law			18LNI254		Advanced Cryptography			
<b>Note:</b>										
<p><b>1. Technical Seminar:</b> 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><b>2. Internship:</b> 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	18LNI31	Client Server Programming	04	--	03	40	60	100	4
2	PEC	18LNI32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18LNI33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18LNI34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18LNII35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
<b>TOTAL</b>				12	02	12	260	240	500	20
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional elective 4</b>					<b>Professional elective 5</b>					
<b>Course Code under 18LNI32X</b>		<b>Course title</b>			<b>Course Code under 18LNI33X</b>		<b>Course title</b>			
18LNI321		Advances in Computer Networks			18LNI331		Wireless Networks & Mobile Computing			
18LNI322		Machine Learning Techniques			18LNI332		Social Network Analysis			
18LNI323		Mobile Application Development			18LNI333		Cloud Security			
18LNI324		Wireless Sensor Networks			18LNI334		Network Routing Algorithm			
<b>Note:</b>										
<p><b>1. Project Phase-1:</b> 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><b>2. Internship:</b> 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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<b>IV SEMESTER</b>										
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	18LNI41	Project work phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<p><b>Note:</b>  <b>1. Project Phase-2:</b>            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>										

