

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**  
**Scheme of Teaching and Examination – 2018 - 19**  
**M.Tech Name of the programme (Geoinformatics)**  
**Outcome Based Education(OBE) and Choice Based Credit System (CBCS)**

<b>I 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		Total Marks
1	CGI	18CGI11	Geospatial statistics	04	--	03	40	60	100	4
2	CGI	18CGI12	Principles of Remote Sensing	04	--	03	40	60	100	4
3	CGI	18CGI13	Geographic Information Systems (GIS) and Spatial Data Analytics	04	--	03	40	60	100	4
4	CGI	18CGI14	Principles of Photogrammetry	04	--	03	40	60	100	4
5	CGI	18CGI15	Geospatial Database Management Systems and Programming Skills	04	--	03	40	60	100	4
6	CGI	18CGIL16	Geoinformatics Laboratory- I	-	04	03	40	60	100	2
7	CGI	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>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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<b>II SEMESTER</b>										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SSEE Marks		Total Marks
1	CGI	18CGI21	Satellite Data Image Processing and Analysis	04	--	03	40	60	100	4
2	CGI	18CGI22	Geoinformatics in Natural Resource and Environmental Management	04	--	03	40	60	100	4
3	CGI	18CGI23	Cartography, Geodesy and Global Navigation Satellite Systems.	04	--	03	40	60	100	4
4	CGI	18CGI24X	Professional elective I	04	--	03	40	60	100	4
5	CGI	18CGI25X	Professional elective II	04	--	03	40	60	100	4
6	CGI	18CGIL26	Geoinformatics Laboratory- II	--	04	03	40	60	100	2
7	CGI	18CGI27	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 I</b>					<b>Professional Elective II</b>					
<b>Course Code under 18XXX24X</b>		<b>Course title</b>			<b>Course Code under 18XXX25X</b>		<b>Course title</b>			
18CGI241		Web Applications in Geoinformatics			18CGI251		Computational Intelligence in Geoinformatics			
18CGI242		Programming C and C++			18CGI252		Programming in .Net, JavaScript and HTML			
18CGI243		Advanced Remote Sensing Techniques			18CGI253		Advanced Geographic Information System			
<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	CGI	18CGI31	Geoinformatics Project Planning and Management	04	--	03	40	60	100	4
2	CGI	18CGI32X	Professional elective III	04	--	03	40	60	100	4
3	CGI	18CGI33X	Professional elective IV	04	--	03	40	60	100	4
4	CGI	18CGI34X	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	CGI	18CGII35	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 III</b>					<b>Professional elective IV</b>					
<b>Course Code under 18XXX32X</b>		<b>Course title</b>			<b>Course Code under 18XXX33X</b>		<b>Course title</b>			
18CGI321		Geoinformatics in Urban Planning and Management			18CGI331		Geoinformatics in Disaster Management			
18CGI322		Geoinformatics in Marine and Coastal Resources Management			18CGI332		Emerging Trends in Spatial Data Analytics and Location Based Intelligence			
18CGI323		Geoinformatics in Demography, Business, Health and Infrastructure			18CGI333		Geoinformatics in Water Resource Management.			
<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	CGI	18CGI41	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>										

