



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ವಿಜ್ಞಾನ ಸಂಗಮ" ಬೆಳಗಾವಿ-590018, ಕರ್ನಾಟಕ, ಭಾರತ  
"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

## Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"Jnana Sangama" Belagavi-590018, Karnataka, India

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Registrar

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Ref: VTU/BGM/BOS/A9/2020-21 / 3816

Date: 26 NOV 2021

### CIRCULAR

**Subject:** Correction in the 3<sup>rd</sup> semester M.Tech., Scheme regarding ....

**Reference:**

1. Chairperson BoS in Civil Engineering Opinion dated 20.11.2021
2. Hon'ble Vice-Chancellor's Approval dated 25.11.2021

Concerning the subject mentioned above, the **Mini-Project (20xxx35)** is a compulsory course in the 3<sup>rd</sup> semester of all the M.Tech., programs (2020 scheme) of the University. This component is missing in the following PG programs scheme;

1. M.Tech., in Construction Technology
2. M.Tech., in Geotechnical Engineering
3. M.Tech., in Water Resource Management

The corrected copy of the scheme is attached with this letter for all stakeholders' information. All the students who are admitted to the 3<sup>rd</sup> semester of the above-mentioned programs have to undertake a Mini-Project(20xxx35) and pass this course to qualify for the award of the degree.

You are hereby informed to bring the content of the circular to the notice of all the faculty and students concerned.

**Enclosures;** 3rd-semester scheme of

- M. Tech., in Construction Technology
- M.Tech., in Geotechnical Engineering
- M.Tech., in Water Resource Management

Sd/-  
REGISTRAR

To,  
The Principals of

1. JAIN COLLEGE OF ENGINEERING, BELAGAVI
2. KARAVALI INSTITUTE OF TECHNOLOGY MANGALORE
3. KVG COLLEGE OF ENGINEERING SULLIA. D.K.

4. N.M.A.M.INSTITUTE OF TECHNOLOGY NITTE
5. SHREE DEVI INSTITUTE OF TECHNOLOGY,MANGALURU
6. BMS COLLEGE OF ENGINEERING, BENGALURU
7. EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY,  
BENGALURU
8. NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY
9. VIJAYA VITTALA INSTITUTE OF TECHNOLOGY BANGALORE
10. VTU Regional Centre Kalaburgi
11. BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY BHALKI
12. EAST-WEST INSTITUTE OF TECHNOLOGY BANGALORE
13. BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY BHALKI

**Copy to:**

1. The Vice-Chancellor, through the secretary to V.C., VTU, Belagavi for information.
2. He Registrar (Evaluation) for information and request to upload the same on VTU web portal in the section 'Circular and Notification'.
3. The Director SMU, CNC ITI VTU Belagavi for information and needful.
4. The Caseworker BOS section for information and follow up

Ray BE  
26/11/2024  
REGISTRAR  
[Signature]

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examinations – 2020 - 21

**M.Tech in Construction Technology (CCT)**

Choice Based Credit System (CBCS) and Outcome-Based Education(OBE)

<b>III Semester</b>											
Sl. No.	Course Type	Course Code	Course Title	Teaching Hours/Week			Examination				Credits
				Theory	Practical Field work/ Assg	SDA	Duration	CIE Marks	SEE marks	Total	
1	PCC	20CCT31	Construction Contracts, Specifications, and Estimation	4	--		3	40	60	100	4
2	PEC	20CCT32X	Professional elective III	3	--		3	40	60	100	3
3	PEC	20CCT33X	Professional elective IV	3	--		3	40	60	100	3
4	Project	20CCT34	Project Work phase I	--	2		--	100	--	100	2
5	Project	20CCT35	Mini-Project	--	2		--	100	---	100	2
6	INT	20CCTI36	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)			3	40	60	100	6
<b>Total</b>				<b>10</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>360</b>	<b>240</b>	<b>600</b>	<b>20</b>

**Note: PCC: Professional core, PEC: Professional Elective**

Professional elective III				Professional elective IV			
Course title		Course Code under 20CCT32X		Course title		Course Code under 20CCT33X	
1. Restoration and Rehabilitation of Structures		20CCT321		1. Energy and Buildings		20CCT331	
2. Construction Demolition and Waste Management		20CCT322		2. Disaster Management Techniques		20CCT332	
3. Design of Pre-stressed Concrete Structures		20CCT323		3. Advanced Design of Steel Structures		20CCT333	

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examinations – 2020 - 21

**M.Tech in Geotechnical Engineering**

Choice Based Credit System (CBCS) and Outcome Based Education(OBE)

<b>III Semester</b>											
Sl. No.	Course Type	Course Code	Course Title	Teaching Hours/Week			Examination				Credits
				Theory	Practical Field work/ Assg	SDA	Duration	CIE Marks	SEE marks	Total	
1	PCC	20CGT31	Unsaturated Soil Mechanics	4	-		3	40	60	100	4
2	PEC	20CGT32X	Professional Elective Course - III	3	-		3	40	60	100	3
3	PEC	20CGT33X	Professional Elective – IV	3	-		3	40	60	100	3
4	Project	20CGT34	Project Work phase I	-	2		-	100	-	100	2
5	<b>Project</b>	<b>20CGT35</b>	<b>Mini-Project</b>	-	<b>2</b>		<b>--</b>	<b>100</b>	<b>---</b>	<b>100</b>	<b>2</b>
6	INT	20CGT36	Internship	Conducted in the vocation between I & II sem or II and III semester			3	40	60	100	6
<b>Total</b>				<b>10</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>360</b>	<b>240</b>	<b>600</b>	<b>20</b>

Professional Elective Course – 3		Professional Elective Course –4	
20CGT321	Earth and Earth Retaining Structures	20CGT331	Finite Elements in Geotechnical Engineering
20CGT322	Earthquake Resistant Design of Foundations	20CGT332	Expansive Soil Engineering
20CGT323	Earth and Rock fill dams and slope stability	20CGT333	Offshore Geotechnical Engineering
20CGT324	Optimization Techniques in Geotechnical Engineering	20CGT334	Ground water contamination and remediation

**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 IA 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.



MINI PROJECT			
Course Code	20XXX35	CIE Marks	100
Number of contact Hours/Week	02	SEE Marks	--
Credits	02	Exam Hours/Batch	03
<b>Course objectives:</b> <ul style="list-style-type: none"> <li>To support independent learning and innovative attitude.</li> <li>To guide to select and utilize adequate information from varied resources upholding ethics.</li> <li>To guide to organize the work in the appropriate manner and present information (acknowledging the sources) clearly.</li> <li>To develop interactive, communication, organisation, time management, and presentation skills.</li> <li>To impart flexibility and adaptability.</li> <li>To inspire independent and team working.</li> <li>To expand intellectual capacity, credibility, judgement, intuition.</li> <li>To adhere to punctuality, setting and meeting deadlines.</li> <li>To instil responsibilities to oneself and others.</li> <li>To train students to present the topic of project work in a seminar without any fear, face audience confidently, enhance communication skill, involve in group discussion to present and exchange ideas.</li> </ul>			
<b>Mini-Project:</b> Each student of the project batch shall involve in carrying out the project work jointly in constant consultation with internal guide, co-guide, and external guide and prepare the project report as per the norms avoiding plagiarism.			
<b>Course outcomes:</b> At the end of the course the student will be able to: <ul style="list-style-type: none"> <li>Present the mini-project and be able to defend it.</li> <li>Make links across different areas of knowledge and to generate, develop and evaluate ideas and information so as to apply these skills to the project task.</li> <li>Habituated to critical thinking and use problem solving skills.</li> <li>Communicate effectively and to present ideas clearly and coherently in both the written and oral forms.</li> <li>Work in a team to achieve common goal.</li> <li>Learn on their own, reflect on their learning and take appropriate actions to improve it.</li> </ul>			
<b>CIE procedure for Mini - Project:</b> The CIE marks awarded for Mini - Project, shall be based on the evaluation of Mini - Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Mini - Project report shall be the same for all the batch mates.			