B. E. CIVIL ENGINEERING Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER - VIII					
INTERNSHIP /PROFESSIONAL PRACTICE					
Course Code	18CVI85	CIE Marks	40		
Teaching Hours/Week(L:T:P)	Industry Oriented	SEE Marks	60		
Credits	03	Exam Hours	03		

Course Learning Objectives: This course will enable students to get the field exposure and experience **Note: Internship /Professional Practice:**

- 1. This shall be carried out by students in industry set-up related to the construction/ materials testing laboratories/research organizations/project management consulting firms/QS and QA organizations/ planning and design offices/Professional organizations like ACCE/ICI/INSTRUCT/RMCMA/QCI, PMI, CIDC etc. and other avenues related to the civil engineering domain in consultation and approval of internship guide/HOD /internship committees of the institutions.
- 2. The professional certification programs like ACCE(I)- SMP, ICI-BMTPC certifications, NSTRUCTcertifications, CIDC certifications, RMC-QCI's RMCPCS Certification Programs, RMCMA-NRMCA'S Concrete Technologist India(CTI) programs and such similar programs by professional bodies with adequate industry exposures at sites/RMC plants can be considered as Internship /Professional Practice with due approvals from the guide/HOD /internship committees of the institutions
- 3. The industry/organization should issue certificates of internship offer and its completion. The offer letter should clearly have the nature of work to be done by the student and the supervisor's name and duration of internship.
- 4. The student shall make a midterm and final presentation of the activities undertaken during the first 6 weeks and at the end of 12th week of internship respectively, to a panel comprising internship guide, a senior faculty from the department and head of the department. Each student should submit the internship report at the end of semester with internship certificate.
- 5. Viva-Voce examination shall be conducted by a panel of examiners consisting of internship supervisor from industry professional approved by university and internship guide from the institute.
- 6. The College shall facilitate and monitor the student internship program.
- 7. The internship should be completed during vacation after VI and VII semesters.

B. E. CIVIL ENGINEERING Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER - VIII PROJECT WORK PHASE 2

I KOJEC I WOKK I IIASE-2						
Course Code	18CVP83	CIE Marks	40			
Teaching Hours/Week(L:T:P)	-	SEE Marks	60			
Credits	08	Exam Hours	03			

Course objectives:

- To support independent learning.
- To develop interactive, communication, organization, time management, and presentation skills.
- To impart flexibility and adaptability.
- To inspire independent and team working.
- To expand intellectual capacity, credibility, judgment, intuition.
- To adhere to punctuality, setting and meeting deadlines.
- To instill responsibilities to oneself and others.
- 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.

Project Work Phase - II: 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.

Course outcomes: At the end of the course the student will be able to:

- Describe the project and be able to defend it.
- Develop critical thinking and problem solving skills.
- Learn to use modern tools and techniques.
- Communicate effectively and to present ideas clearly and coherently both in written and oral forms.
- Develop skills to work in a team to achieve common goal.
- Develop skills of project management and finance.
- Develop skills of self learning, evaluate their learning and take appropriate actions to improve it.
- Prepare them for life-long learning to face the challenges and support the technological changes to meet the societal needs.

Evaluation Procedure:

- As per University guidelines
- Internal Marks: The Internal marks (100 marks) evaluation shall be based on Phase wise completion of the project work, Project report, Presentation and Demonstration of the actual/model/prototype of the project.
- Semester End Examination: SEE marks for the project (100 marks) shall be based on Project report, Presentation and Demonstration of the actual/model/prototype of the project, as per the University norms by the examiners appointed VTU.

B. E. CIVIL ENGINEERING							
Unoice Based Uredit System (UBUS) and Outcome Based Education (UBE) SEMESTED _ VI							
EXTENSIVE SURVEV PROJECT							
Course	Code	18CVEP68	CIE Marks	40			
Teachin	ng Hours/Week(L:T·P)	(0.2.2)	SEE Marks	60			
Total N	umber of Practice Hours	02	Exam Hours	03			
		1.0-					
Course	Learning Objectives: This course will e	enable students to					
1.	Understand the practical applications of S	Surveying.					
2.	Use Total station and other Measurement	Equipments.					
3.	Work in teams and learn time management	nt, communication	and presentation skills				
Note:							
•	To be conducted between 5th & 6th Semo	ester for a period of	2 weeks including training	g on total station.			
•	Viva voce conducted along with 6th seme	ester exams					
•	An extensive project preparation training	g involving investig	gation, collection of data is	s to be conducted.			
	Use of Total Station is compulsory for	minimum of TWO	projects.				
•	The student shall submit a project report	consisting of design	ns and drawings.				
•	Drawings should be done using CAD and	l survey work using	total station				
•	Students should learn data download	from total station	n, generation of contours	s, block leveling,			
	longitudinal and cross sectional diagrams	and capacity volu	me calculation by using rel	evant softwares			
•	The course coordinators should give expo	osure and simulate a	activities to achieve the cou	irse outcomes			
1	NEW TANK DO IECTS. The wor	lr aball consist of					
1.	NEW TANK PROJECTS: The wor	rk shall consist of;	alization of ansist				
	a. Reconnaissance survey for selection	of site and conception	ialization of project.	ha aantan lina			
	b. Alignment of center line of the propo	osed bund, Longitud	aity surveys. Details at Wa	ne center line.			
	c. Detailed survey required for project e	execution like Capa	city surveys, Details at wa	ste weir and sluice			
	points, Canal alignment etc. as per re	quirement					
2	a. Design and preparation of drawing w	N PROJECT. Th	a manual aball as raist of				
Ζ.	WATER SUPPLY AND SANITAR	of gite and concent	e work shall consist of;				
	b Examination of sources of water sur	of site and concept	anzation of project.	based on existing			
	and projected population	ppiy, Calculation of	qualitity of water required	based off existing			
	and projected population.	otal station					
	c. Preparation of village map by using total station.						
a. Survey work required for laying of water supply and UGD							
	c. Location of sites for water tank. Selection of type of water tank to be provided. (ground level,						
	f Design of all elements and preparatio	on of drawing with 1	report				
3	HICHWAY PROJECT: The work	shall consist of	lepon.				
5.	a Reconnaissance survey for selection	of site and concent	alization of project				
	b Preliminary and detailed investigation	ons to align a new	road (min 1 to 1.5 km str	etch) between two			
	obligatory points. The investigation	his to angle a new .	topographic surveying of	strip of land for			
	considering alternate routes and for f	inal alignment Sur	verying by using total station	n surp of fand for			
	c Report should justify the selected a	alignment with det	ails of all geometric design	uns for traffic and			
	design speed assumed	inginitent with det	and of an geometric desig	ins for traffic and			
	d Drawing shall include key plan init	ial alignment fina	l alignment longitudinal a	section along final			
	alignment typical cross sections of r	nad	i angiment, iongitudillal s	section along mildi			
Δ	RESTORATION OF AN EXISTIN	NG TANK• The wo	ork shall consist of				
	a Reconnaissance survey for selection	of site and concept	alization of project				
	h. Alignment of center line of the existing Δ	Alignment of conter line of the existing hund. I engited and energy sections of the center line					
	Augment of center line of the existing bund, Longitudinal and cross sections of the center line.						
	noints Canal alignment etc. as per re	auirement	ony surveys, Details at Wa	sie wen and shuffe			
1	points, Canar angiment etc. as per le	quinement	report				
 The course coordinators solud give exposure and simulate activities to achieve the course outcomes The course coordinators should give exposure and simulate activities to achieve the course outcomes NEW TANK PROJECTS: The work shall consist of; Reconnaissance survey for selection of site and conceptualization of project. Alignment of center line of the proposed bund, Longitudinal and cross sections of the center line. Detailed survey required for project execution like Capacity surveys, Details at Waste weir and sluice points, Canal alignment etc. as per requirement Design and preparation of drawing with report. WATER SUPPLY AND SANITARY PROJECT: The work shall consist of; Reconnaissance survey for selection of site and conceptualization of project. Examination of sources of water supply, Calculation of quantity of water required based on existing and projected population. Preparation of village map by using total station. Survey work required for laying of water supply and UGD Location of sites for water tank. Selection of type of water tank to be provided. (ground level, overhead and underground) Design of all elements and preparation of drawing with report. HIGHWAY PROJECT: The work shall consist of; Reconnaissance survey for selection of site and conceptualization of project. Preliminary and detailed investigations to align a new road (min. 1 to 1.5 km stretch) between two obligatory points. The investigations to align a new road (min. 1 to 1.5 km stretch) between two obligatory points. The investigations of road. Resonnaissance survey for selected alignment, final alignment, longitudinal							

5. TOWN/HOUSING / LAYOUT PLANNING: The work shall consist of;

- a. Reconnaissance survey for selection of site and conceptualization of project.
- b. Detailed survey required for project execution like contour surveys
- c. Preparation of layout plans as per regulations
- e. Centerline marking-transfer of centre lines from plan to ground
- f. Design of all elements and preparation of drawing with report as per regulations

Course outcomes: After studying this course, students will be able to:

- 1. Apply Surveying knowledge and tools effectively for the projects
- 2. Understanding Task environment, Goals, responsibilities, Task focus, working in Teams towards common goals, Organizational performance expectations, technical and behavioral competencies.
- 3. Application of individual effectiveness skills in team and organizational context, goal setting, time management, communication and presentation skills.
- 4. Professional etiquettes at workplace, meeting and general
- 5. Establishing trust based relationships in teams & organizational environment
- 6. Orientation towards conflicts in team and organizational environment, Understanding sources of conflicts, Conflict resolution styles and techniques

Reference Books:

Training manuals and User manuals Relevant course reference books