

SWVSM'S

Tatyasaheb Kore Institute of Engineering and Technology, Warananagar An Autonomous Institute

Abbreviations

Sr. No.	Acronym	Definition			
1	ISE	In-Semester Examination			
2	ISE-I	In-Semester Examination-I			
3	ISE-II	In-Semester Examination-II			
4	ESE	End Semester Examination			
5	ISA	In-Semester Assessment (Term Work)			
6	L	Lecture			
7	Т	Tutorial			
8	P	Practical			
9	CH	Contact Hours			
10	С	Credit			

Course/ Subject Categories

Sr. No. Acronyn		Definition			
1	BSC	Basic Science Course			
2	HSC	Humanity Science Course			
3	ESC	Engineering Science Course			
4	PCC	Professional Core Course			
5	OEC	Open Elective Course			
6	MC	Mandatory Course			
7	PEC	Professional Elective Course			
8	PW	Project Work (Mini and Major Project)			
9	II	Industrial 80808			



CO, PO & PSO Mapping Correlation:

Low	Medium(Moderate)	High(Substantial)		
1	2	3		

Course/ Subject Code

C	E	7	0	1
Branch	Code	Semester	Course Nu	mber

Course Term work and POE Code

C	E	7	0	1	T/P/A
Branc	h Code	Semester	Course Number		T- Term work P- POE A- Audit Course





Tatyasaheb Kore Institute of engineering and Technology, Warananagar An Autonomous Institute

Department of Civil Engineering

Vision

To become an academy of excellence in technical education and human resource development.

Mission

- To develop engineering graduates of high repute with professional ethics.
- To excel in academics and research through innovative techniques.
- To facilitate the employability, entrepreneurship along with social responsibility.
- To collaborate with industries and institutes of national recognition.
- To inculcate lifelong learning and respect for the environment.

Quality Policy

To promote excellence in academic and training activities by inspiring students for becoming competent professionals to cater industrial and social needs.



Tatyasaheb Kore Institute of Engineering and Technology, Warananagar (An Autonomous Institute)

Final Year B. Tech. In CIVIL Engineering

Syllabus under Autonomous Status of TKIET, Warananagar

2023-24





TATYASAHEB KORE INSTITUTE OF ENGINEERING & TECHNOLOGY, WARANANAGAR

Department of Civil Engineering

4.1 Program Educational Objectives (PEO's)

After completion of program, Graduates will be able to

1	To Impart quality technical education and graduate the students for employment in civil engineering and related professions.
2	To provide students with solid foundation in mathematical and analytical subjects so as to solve civil engineering problems and also to pursue higher studies.
3	To develop the ability among the students to organize the data, synthesize data and technical concepts which will helps them to solve problems relevant to the general practice of various civil engineering disciplines
4	To inculcate with the student the expertise of using computer tools to solve problems, for presentations works, acquaint them with professional level software for planning, analysis and design purpose
5	To provide an experience in surveying work, site investigations, familiarity with the real issues of civil engineering including ethics, economy, management and emerging technologies
6	To provide an opportunity for the students to work in team by organizing various curricular and professional activities resulting in the improvement of technical and soft skills.

TATYASAHEB KORE INSTITUTE OF ENGINEERING & TECHNOLOGY, WARANANAGAR

Department of Civil Engineering

4.2 Program Outcomes (POs)

After completion of program, Graduates will be able to

PO1	Demonstrate knowledge in mathematics, basic sciences & civil engineering
PO2	Identify, formulate and solve civil engineering problems.
PO3	Prepare structural design such that fulfills design specification, durability, economy & safety.
PO4	Design and conduct experiment, analyze data & also interpret result to provide conclusion.
PO5	Use appropriate engineering techniques & software tools to analyze civil engineering problems.
PO6	Apply civil engineering knowledge for construction site in all respect like planning, execution and supervision.
PO7	Sensitive towards ethical, societal & environmental issue along with professional work.
PO8	Exhibit understanding of professional & ethical responsibility.
PO9	Ability to function as a leader of multidisciplinary team.
PO10	Communicate effectively in both verbal & written form.
PO11	Develop engineering research ability & project management skill.
PO12	Possess confidence for self education & ability for lifelong learning.

PROGRAM SPECIFIC OUTCOMES After completion of program, Graduates will be able to

1	Plan and Design, Maintain and execute smart infrastructural projects.
2	Assess and analyze environmental impact of civil engineering projects and take corrective action for sustainable development.
3	Use leadership and communication abilities to optimally integrate the 4Ms VizMen, Money, Material and Machine

Autonomous

Final Year B. Tech. in CIVIL Engineering

Syllabus Structure under Autonomous Status of TKIET, Warananagar SEM VII

To be implemented from 2023-24





Tatyasaheb Kore Institute of Engineering and Technology, Warananagar

Final Year B. Tech. (Civil Engineering)

Semester-VII

(To be implemented from 2023 - 24)

Credit Scheme

					Teach	ing Sche	me	Examination & Evaluation Schem			
Course Code	Category	Course Title	L	Т	P	c	СН	Compon	Marks	Min fo	r Passing
CE 701	PCC		,					ESE	60	24	10
CE 701	PCC Earthquake Engineering 3 3	3	ISE	40	16	40					
CF 500	ncc			ESE 60	24	40					
CE 702	PCC	Transportation Engineering	3			3	3	ISE	40	16	40
		Quantity Surveying and						ESE	60	24	
CE 703	PCC	Valuation	3		-	3	3	ISE	40	16	40
	DEC							ESE	60	24	40
CE 704	PEC	Professional Elective II	3			3	3	ISE	40	16	
		Design of Structures and						ESE	60	24	40
CE 705	PCC	Drawing I	2	•	-	2	2	ISE	40	16	40
CE 704T	PCC	Professional Elective II	-	1	-	1	1	ISA	25	10	10
CE 701P	PCC	Earthquake Engineering	-		2	1	2	ISA	25	10	10
CE TOOR	ncc						2	ISA	25	10	10
CE 702P	PCC	Transportation Engineering			2	1		POE	25	10	10
		Quantity Surveying and						ISA	25	10	10
CE 703P	PCC	Valuation	-	-	4	2	4	POE	25	10	10
		Design of Structures and	-	-	2	1	2	ISA	25	10	10
CE 705P	PCC	Drawing I						POE	25	10	10
CE706P	PW	Project Phase I			4	2	4	ISA	100	40	40
CE 707 A	MC	Audit Course - Field Training		-	-		7-1				
)			14	1	14	22	29		800	320	320

Professional Elective II – CE704-1 Irrigation Engineering, CE704-2 Solid Waste Management, CE703-3. Advanced Construction Technology, CE704-4 Open Channel Hydraulics





Tatyasaheb Kore Institute of Engineering and Technology, Warananagar

Final Year B. Tech. (Civil Engineering)

Semester-VIII

(To be implemented from 2023 - 24)

Track - 1 Capstan / Academic Pattern

Credit Scheme

			Teaching Scheme						Examination & Evaluation Scheme				
Course Code	Category	Course Title	L	Т	P	C	СН	Component	Ma rks	Min for	Passing		
		Town Planning and						ESE	60	24	40		
CE 801 PC	PCC	Docks-Harbor Engineering	3	-		3	3	ISE	40	16	40		
CD 000								ESE	60	24	40		
CE 802 PCC	PCC	Design of Bridges	3	-	-	3	3	ISE	40	16	40		
GROOM	nec							ESE	60	24	40		
CE803	PCC	Professional Elective III	3		-	3	3	ISE	40	16	40		
	200							ESE	60	24	40		
CE804	PCC	Professional Elective IV	3		-	3	3	ISE	40	16	40		
CE 801P	PCC	Town Planning and Docks		3			2	ISA	25	10	10		
CE 3011	rec	and Harbor Engineering	-	-	2	1		POE	50	20	20		
CE 802P	PCC	Design of Bridges	-		2	1	2	ISA	25	10	10		
		Design of Structures and			2	1	2	ISA	50	20	20		
CE805P	PCC	Drawing II	-		2			POE	50	20	20		
CEGOCR	DW	Declarate Wester H				3		ISA	100	40	40		
CE806P	PW	Project Work – II			6	3	6	POE	100	40	40		
CE807A	МС	Audit Course – Paper presentation and Project Competition											
			12		12	18	24	- 100 m	800	320			

Professional Elective III – CE803-1 Structural Design of Foundation & Retaining Structures, CE803-2 Advanced Design of Concrete Structures, CE803-3. Pre-stressed Concrete Design, Professional Elective IV - CE804-1 Remote Sensing, GIS and GPS Application in Civil Engineering, CE804-2. Construction Practices, CE804-3. Site Investigation Methods And Practices, CE804-4 Advanced Traffic Engineering



Tatyasaheb Kore Institute of Engineering and Technology, Warananagar

Final Year B. Tech. (Civil Engineering)

Semester-VIII

(To be implemented from 2023 - 24)

Track -2 Industrial Internship Pattern

					Teach	ing Sche	eme	Examination & Evaluation Scheme				
Cours e Code	Category	Course Title	L	Т	P	c	СН	Compon ent	Mark s	Min fo	r Passing	
CE 001	PCC	Town Planning and Docks-	3			3	3	ESE	60	24	40	
CE 801	rcc	Harbor Engineering	3	-	1-7	3	3	ISE	40	16	40	
CE 802	PCC	Design of Bridges	3		-	3	3	ESE	60	24	40	
CE 802	PCC	Design of Bridges	3	ISE	40	16	40					
CE 801P	PCC	Town Planning and Docks					2	ISA	25	10	10	
		and Harbor Engineering	-	-	2	1		POE	50	20	20	
CE 802P	PCC	Design of Bridges		-	2	1	2	ISA	25	10	10	
								ISA	100	40	40	
CE806P	PW	Project Work – II	-	-	6	3	6	POE	100	40	40	
CEROOD					14	7		ISA	100	40	40	
CE808P	П	Industrial Internship			14	7	14	POE	200	80	80	
CE807A	МС	Audit Course – Paper presentation and Project Competition										
			9	2	24	18	30	-	800	320	-	

Credit Scheme

Professional Elective III – CE803-1 Structural Design of Foundation & Retaining Structures, CE803-2 Advanced Design of Concrete Structures, CE803-3. Pre-stressed Concrete Design, Professional Elective IV - CE804-1 Remote Sensing, GIS and GPS Application in Civil Engineering, CE804-2. Construction Practices, CE804-3. Site Investigation Methods And Practices, CE804-4 Advanced Traffic Engineering



Final Year B. Tech. (Civil Engineering)

List of Professional Elective Course (PE II) Sem.VII

Category	Course Code	Course Title		
	CE 704 -1	Irrigation Engineering		
PCC	CE 704-2	Solid Waste Management		
.7.7	CE 704-3	Advanced Construction Technology		
10000	CE 704 -4	Open Channel Hydraulics		

List of Professional Elective Course (PE III) Sem.VIII

Category	Course Code	Course Title
PCC	CE 803 -1	Structural Design of Foundation & Retaining Structures
	CE 803-2	Advanced Design of Concrete Structures
	CE 803-3	Pre-stressed Concrete Design
	CE 803 -4	Dynamics of Structure

List of Professional Elective Course (PE IV) Sem.VIII

Category	Course Code	Course Title
PCC	CE 804 -1	Remote Sensing, GIS and GPS Application in Civil Engineering
	CE 804-2	Construction Practices
	CE 804-3	Site Investigation Methods And Practices
	CE 804- 4	Advanced Traffic Engineering



