



An Autonomous Institute
Shree Warana Vibhag Shikshan Mandal's
**Tatyasaheb Kore Institute of
Engineering And Technology,
Warananagar**
NBA Accredited Institute

Department of Civil Engineering

Honor's Course in Infrastructure
Engineering 2025-2026

B. Tech. In Civil Engineering

Syllabus Structure and Curriculum under Autonomy



**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	T	Tutorial
8	P	Practical
9	CH	Contact Hours
10	C	Credit

Course/ Subject Categories

Sr. No.	Acronym	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 Internship

CO, PO & PSO Mapping Correlation:

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

Course/ Subject Code

C	E	5	0	1
Branch Code		Semester	Course Number	

Course Term work and POE Code

C	E	5	0	1	T/P/A
Branch Code		Semester	Course Number		T- Tutorial P- POE A- Audit Course





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.





Department of Civil Engineering

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.





Department of Civil Engineering

Program Outcomes (PO's)

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 (PSO's)

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 Viz.- Men, Money, Material and Machine





Honor's Course in Infrastructure Engineering

**Syllabus Structure under Autonomous Status of
TKIET, Warananagar**

As per NEP 2020

**To be implemented from
2025-26**





Shree Warana Vibhag Shikshan Mandal's

Tatyasaheb Kore Institute of Engineering & Technology

Warananagar, Tal- Panhala, Dist- Kolhapur -416 113. Maharashtra



Third Year B. Tech. (Civil Engineering)

Semester-V

(To be implemented from 2025-26)

Credit Scheme

Course Code	Category	Course Title	Teaching Scheme					Examination & Evaluation Scheme			
			L	T	P	C	CH	Components	Marks	Min for Passing	
23UGPCC CE-H-501	PCC	Fundamentals of Airport Engineering	4	-	-	4	4	ESE	60	24	40
								ISE	40	16	
23UGPCC CE-H-501P	PCC	Fundamentals of Airport Engineering Lab	-	-	2	1	2	ISA	25	10	10
			4	-	2	5	6		125	50	-





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Third Year B. Tech. (Civil Engineering)

Semester-VI

(To be implemented from 2025-26)

Credit Scheme

Course Code	Category	Course Title	Teaching Scheme					Examination & Evaluation Scheme			
			L	T	P	C	CH	Components	Marks	Min for Passing	
23UGPCC CE-H-601	PCC	Building Information Modeling (BIM) with Revit and Navisworks software	4	-	-	4	4	ESE	60	24	40
								ISE	40	16	
23UGPCC CE-H-601-P	PCC	Building Information Modeling (BIM) with Revit and Navisworks software	-	-	2	1	2	ISA	25	10	10
			4	-	2	5	6		125	50	-





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