



**KARNATAK LAW SOCIETY'S  
GOGTE INSTITUTE OF TECHNOLOGY  
"JNANA GANGA" UDYAMBAG, BELAGAVI-590008,  
KARNATAKA, INDIA.  
Approved by AICTE & UGC  
Permanently Affiliated and Autonomous Institution Under  
Visvesvaraya Technological University, Belagavi  
[www.git.edu](http://www.git.edu)**



## **2023 Scheme**

**Department: Architecture**

**Programme: B.Arch**

**1<sup>st</sup> to 10<sup>th</sup> Semester Scheme of Teaching and Examination**

**1<sup>st</sup> and 2<sup>nd</sup> Semester Syllabus**

## **INSTITUTION VISION**

Gogte Institute of Technology shall stand out as an institution of excellence in technical education and in training individuals for outstanding caliber, character coupled with creativity and entrepreneurial skills.

## **INSTITUTION MISSION**

To train the students to become Quality Engineers with High Standards of Professionalism and Ethics who have Positive Attitude, a Perfect blend of Techno-Managerial Skills and Problem solving ability with an analytical and innovative mindset.

## **QUALITY POLICY**

- Imparting value added technical education with state-of-the-art technology in a congenial, disciplined and a research oriented environment.
- Fostering cultural, ethical, moral and social values in the human resources of the institution.
- Reinforcing our bonds with the Parents, Industry, Alumni, and to seek their suggestions for innovating and excelling in every sphere of quality education.

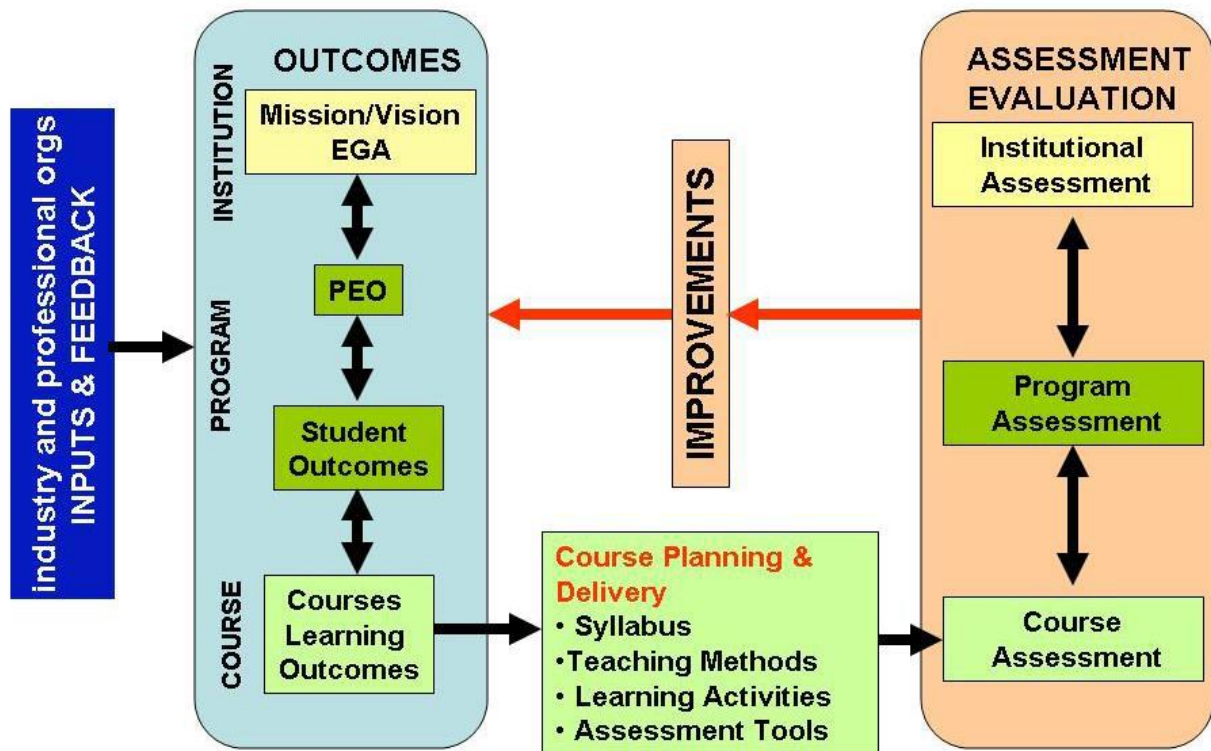
## **DEPARTMENT VISION**

To achieve excellence in Architectural education, nurturing individuals with creative, technical and entrepreneurial skills towards ethical and holistic design approach.

## **DEPARTMENT MISSION**

- To develop core competencies of design and professionalism to address complex design issues that are emerging in today's global scenario.
- To train students to be empathetic in the process of designing built environments that respond appropriately to aesthetic, technological, socio-cultural and economic contexts.
- Establishing an immersive learning environment that promotes critical thinking, collaborative research and holistic design approach by bringing in expertise, infrastructure and technologies together.

## OUTCOME BASED EDUCATION (OBE)



## PROGRAMME OUTCOMES (PO's)

1. **Architectural Knowledge:** Apply the requisite knowledge to create Architectural designs that satisfy aesthetic, functional and technical requirements for liveable habitats responding to divergent arts, cultural, social, physical and environmental contexts.
2. **Problem Analysis:** Identify, formulate, review research literature and analyse complex Architectural design problems for reaching substantiated conclusions.
3. **Evolving Design Solutions:** Design solutions for complex Architectural problems that meet the specified needs with appropriate consideration for the aesthetic, cultural, societal, economical, physical, environmental and technological concerns.
4. **Critical Thinking:** Use analysis and interpretation of data, research-based knowledge, research methods and design approaches to critically evaluate and synthesize appropriate design solutions.
5. **Adaptability to latest Tools and Techniques:** Learn and apply latest design softwares and techniques for representing and communicating Architectural designs.
6. **The Architect and Society:** Apply Architectural skills to address complex issues concerning society, culture, health, safety and legal aspects to achieve holistic development.
7. **Environment and Sustainability:** Understand the impact of the Architectural solutions in societal and environmental contexts and demonstrate the knowledge of, and need for creating healthy communities and sustainable development.

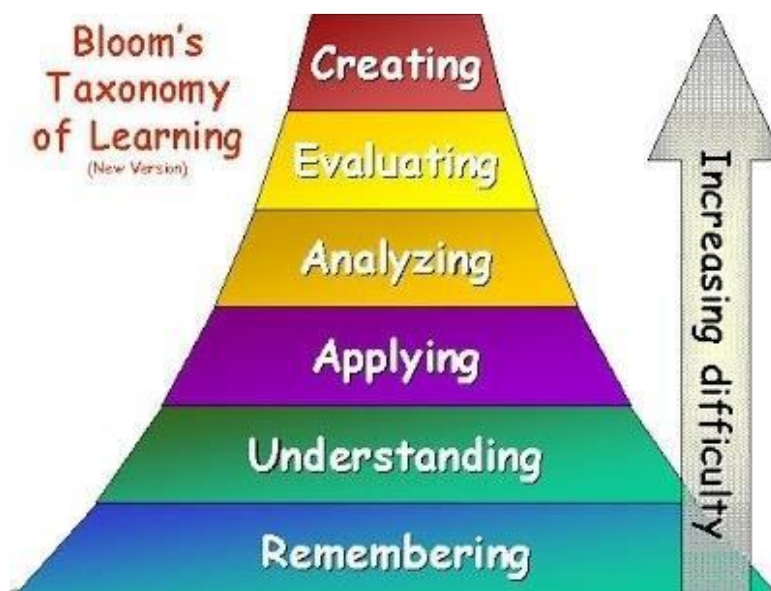
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Architectural practice.
9. **Individual and Team-work:** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings according to changing global scenarios.
10. **Communication:** Apply communication skills to effectively manage challenging professional demands, to communicate, present, deliver ideas and design solutions.
11. **Project Management Skills:** Demonstrate knowledge and understanding of the project financing and management principles and apply these to profession, individually or as a team to successfully manage complex projects in multidisciplinary environments.
12. **Life-long Learning:** Recognize the need and ability to consistently engage in independent and lifelong learning in the ever changing global context.

### **BLOOMS TAXONOMY OF LEARNING OBJECTIVES**

Bloom's Taxonomy in its various forms represents the process of learning. It was developed in 1956 by Benjamin Bloom and modified during the 1990's by a new group of cognitive psychologists, led by Lorin Anderson (a former student of Bloom's) to make it relevant to the 21st century. The revised taxonomy given below emphasizes what a learner "Can Do".

<b>Lower order thinking skills (LOTS)</b>		
L1	Remembering	Retrieve relevant knowledge from memory.
L2	Understanding	Construct meaning from instructional material, including oral, written, and graphic communication.
L3	Applying	Carry out or use a procedure in a given situation – using learned knowledge.
<b>Higher order thinking skills (HOTS)</b>		
L4	Analyzing	Break down knowledge into its components and determine the relationships of the components to one another and then how they relate to an overall structure or task.
L5	Evaluating	Make judgments based on criteria and standards, using previously learned knowledge.
L6	Creating	Combining or reorganizing elements to form a coherent or functional whole or into a new pattern, structure or idea.





## COURSES, PERIODS OF STUDY AND SUBJECTS OF EXAMINATION UNDER CHOICE BASED CREDIT SYSTEM FOR THE ARCHITECTURE DEGREE PROGRAMME

1. Under the Choice based credit system, which is a student/ learner centric system, the courses of study in the Architecture Degree program shall be as under:
  - 1) **Professional Core (PC) Course:** A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.
  - 2) **Building Sciences and Applied Engineering (BS & AE) Course:** A course which informs the Professional core and should compulsorily be studied.
  - 3) **Elective Course:** Generally a course which can be chosen from a pool of courses and are of two types:
    - i. **Professional Elective (PE)** which may be very specific or specialized or advanced or supportive to the discipline or subject of study or which provides an extended scope.
    - ii. **Open Elective (OE)** which enables an exposure to some other discipline or subject or domain or nurtures the candidate's proficiency or skill.
  - 4) **Employability Enhancement Courses (EEC)** which may be of two kinds:
    - i. **Employability Enhancement Compulsory Courses (EECC)**
    - ii. **Skill Enhancement Courses (SEC)**
2. The Weightage in terms of Credits for each of the above in the prescribed curriculum of the institution shall be as follows:
  - 1) Professional Core Courses (PC) : 50%
  - 2) Building Science and Applied Engineering (BS& AE) : 20 %
  - 3) Elective Courses
    - i. Professional Electives (PE) : 10%
    - ii. Open Electives (OE) : 5%
  - 4) Professional Ability Enhancement Courses (PAEC)
    - i. Professional Ability Enhancement Compulsory Courses (PAECC) : 10%
    - ii. Skill Enhancement Courses (SEC) : 5%

Note: Where it is not possible to offer Open Electives, Professional Electives may have a weightage 15% of the total credits.

**SEMESTER WISE DISTRIBUTION OF CREDITS FOR B.ARCH  
PROGRAMME**

**Total credits for B.Arch Programme: 270 credits**

	<b>Semester</b>	<b>Credits per Sem</b>	<b>Total credits</b>
1 <sup>st</sup> year	1	30	59
	2	29	
2 <sup>nd</sup> year	3	31	62
	4	31	
3 <sup>rd</sup> year	5	31	61
	6	30	
4 <sup>th</sup> year	7	31	47
	8	16	
5 <sup>th</sup> year	9	29	41
	10	12	
	<b>Total</b>	<b>270</b>	<b>270</b>





Karnatak Law Society's  
**GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08**  
**Bachelor of Architecture**  
**SCHEME OF TEACHING AND EXAMINATION**



BATCH\_2023

Department :Architecture

Semester:I

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES1.1	PC	Mono-spaces and Residential Design	Architecture	1	7	0	8	8	80	20	100	-	200	-
	23DES1.2	PC	Basic Design and Design Thinking in Architecture	Architecture	1	3	0	4	4	80	20	100	-	200	-
TECHNOLOGY	23TEC1.1	BS&AE	Building Construction and Materials-I	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC1.2	PC	Architectural Graphics-I	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC1.3	BS&AE	Evolution of Structures and Engineering Mechanics	Architecture/ Civil	3	0	0	3	3	80	20	-	100	200	3 hrs
HUMANITIES	23HUM1.1	PC	History of Architecture- I	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUMS1.2	SEC	Samskrutika Kannada	Allied	1	0	0	1	1	30	20	-	50	100	1 hr
	23HUMB1.2		Balake Kannada							40	10				
	23HUM1.3	AEC	Scientific Foundations of Health	Architecture/ Allied	1	0	0	1	1	40	10	-	50	100	1 hr
-	23AEC1.1	MNC	Physical Education(Sports, Athletics),Yoga/NSS/Club Activities	Architecture /Sports	0	0	2	2	MNC	80	20	-	-	100	-
Total					12	18	2	32	30	640	160	400	300	1500	

**L-Lecture**

**CIE- Continuous Internal Evaluation**

**CA-Course Activity**

**S-Studio**

**SEE- Semester End Examination**

**PA-Progressive Assessment**

**P-Practical**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

**MNC- Mandatory Non Credit**

**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses**

**UHV - Universal Human Values**

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**





Karnatak Law Society's  
GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08  
**Bachelor of Architecture**  
SCHEME OF TEACHING AND EXAMINATION

BATCH\_2023



Department :Architecture

Semester:II

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks				Duration of Exam	
					L	S	P	Total		CIE		SEE			Total
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES2.1	PC	Elements of Space Making and Design	Architecture	1	7	0	8	8	80	20	100	-	200	-
TECHNOLOGY	23TEC2.1	BS&AE	Building Construction and Materials-II	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC2.2	PC	Architectural Graphics-II	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC2.3	BS&AE	Analysis of Determinate Structures	Architecture/ Civil	3	0	0	3	3	80	20	-	100	200	3 hrs
	23TEC2.4	BS&AE	Surveying and Levelling	Architecture/ Civil	2	0	1	3	3	80	20	-	100	200	3 hrs
HUMANITIES	23HUM2.1	PC	History of Architecture-II	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM2.2	SEC	Communication Skills	Allied	1	0	0	1	1	40	10	-	50	100	1 hr
	23HUM2.3	UHV	Social Connect and Responsibility	Architecture/ Allied	1	0	0	1	1	80	20	-	-	100	1 hr
-	23AEC2.1	MNC	Physical Education(Sports, Athletics),Yoga/NSS/Club Activities	Architecture / Sports Dept	0	0	2	2	MNC	80	20	-	-	100	-
					13	15	3	31	29	680	170	300	350	1500	

L-Lecture

CIE- Continuous Internal Evaluation

CA-Course Activity

S-Studio

SEE- Semester End Examination

PA-Progressive Assessment

P-Practical

PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective

MNC- Mandatory Non Credit

PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses

UHV - Universal Human Values

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50% , Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40% ,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**



Karnatak Law Society's  
GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08  
**Bachelor of Architecture**  
SCHEME OF TEACHING AND EXAMINATION

BATCH\_2023



Department :Architecture

Semester:III

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES3.1	PC	Contextual Design	Architecture	1	7	0	8	8	80	20	100	-	200	-
	23DES3.2	BS&AE	Climate Responsive Architecture	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
TECHNOLOGY	23TEC3.1	BS&AE	Building Construction and Materials-III	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC3.2	BS&AE	Water Supply and Sanitation	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23TEC3.3	BS&AE	Design of RCC Structures	Architecture/ Civil	3	0	0	3	3	80	20	-	100	200	3 hrs
	23TEC3.4	SEC	Computer Application-I	Architecture	1	0	2	3	3	80	20	-	-	100	-
HUMANITIES	23HUM3.1	PC	Hindu Temple Architecture in India	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
ELECTIVES	23ARE3.1x	PE	Elective - I: Literature and Arts	Architecture/Allied	3	0	0	3	3	80	20	-	-	100	-
					18	11	2	31	31	640	160	200	400	1400	

**L-Lecture**

**CIE- Continuous Internal Evaluation**

**CA-Course Activity**

**S-Studio**

**SEE- Semester End Examination**

**PA-Progressive Assessment**

**P-Practical**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

**MNC- Mandatory Non Credit**

**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses**

**UHV - Universal Human Values**

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**

<b>Elective - I: Literature and Arts</b>	
Course Code	Course Title
23ARE3.11	Craft in Architecture
23ARE3.12	Art Appreciation
23ARE3.13	Literature Appreciation
23ARE3.14	Architectural Photography



Karnatak Law Society's  
GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08  
**Bachelor of Architecture**  
SCHEME OF TEACHING AND EXAMINATION

BATCH\_2023



Department :Architecture

Semester:IV

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES4.1	PC	Structural Aesthetics in Architecture	Architecture	1	7	0	8	8	80	20	100	-	200	-
TECHNOLOGY	23TEC4.1	BS&AE	Building Construction and Materials-IV	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC4.2	BS&AE	Electricity and Illumination	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23TEC4.3	BS&AE	Design of Steel Structures	Architecture/ Civil	3	0	0	3	3	80	20	-	100	200	3 hrs
	23TEC4.4	SEC	Computer Application-II	Architecture	1	0	2	3	3	80	20	-	-	100	-
HUMANITIES	23HUM4.1	PC	Islamic and Colonial Architecture in India	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM4.2	PC	Humanities	Architecture	1	2	0	3	3	80	20	-	-	100	-
ELECTIVES	23ARE4.1x	PE	Elective - II: Architectural Presentation and Documentation	Architecture/Allied	3	0	0	3	3	80	20	-	-	100	-
					16	13	2	31	31	640	160	200	300	1300	

**L-Lecture**

**CIE- Continuous Internal Evaluation**

**CA-Course Activity**

**S-Studio**

**SEE- Semester End Examination**

**PA-Progressive Assessment**

**P-Practical**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

**MNC- Mandatory Non Credit**

**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses**

**UHV - Universal Human Values**

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**

**Elective - II: Architectural Presentation and Documentation**

Course Code	Course Title
23ARE4.11	Architectural Presentation Techniques
23ARE4.12	Vernacular Architecture
23ARE4.13	Heritage Documentation
23ARE4.14	Film Making in Architecture



Karnatak Law Society's  
GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08  
**Bachelor of Architecture**  
SCHEME OF TEACHING AND EXAMINATION

BATCH\_2023



Department :Architecture

Semester:V

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES5.1	PC	Housing Design	Architecture	1	7	0	8	8	80	20	100	-	200	-
	23DES5.2	PC	Theory of Architecture-I	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23DES5.3	SEC	Working Drawing	Architecture	1	0	2	3	3	80	20	100	-	200	-
TECHNOLOGY	23TEC5.1	BS&AE	Building Construction and Materials-V	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC5.2	BS&AE	HVAC and Fire Safety	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23TEC5.3	BS&AE	Principles of Advanced Structural Form	Architecture/ Civil	3	0	0	3	3	80	20	-	100	200	3 hrs
HUMANITIES	23HUM5.1	PC	Renaissance to Modernism	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM5.2	MNC	Study Tour	Architecture	0	0	0	0	MNC	80	20	-	-	100	-
ELECTIVES	23ARE5.1x	PE	Elective - III: Natural Systems/Environmental studies/Context	Architecture/Allied	3	0	0	3	3	80	20	-	-	100	-
					18	11	2	31	31	720	180	300	400	1600	

**L-Lecture**

**S-Studio**

**P-Practical**

**MNC- Mandatory Non Credit**

**CIE- Continuous Internal Evaluation**

**SEE- Semester End Examination**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses**

**UHV - Universal Human Values**

**CA-Course Activity**

**PA-Progressive Assessment**

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**

**Elective - III: Natural Systems/Environmental studies/Context**

Course Code	Course Title
23ARE5.11	Cost Effective Design
23ARE5.12	Biomimicry
23ARE5.13	Eco-friendly Architecture
23ARE5.14	Indian Traditional Knowledge Systems in Architecture



Karnatak Law Society's  
**GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08**  
**Bachelor of Architecture**  
**SCHEME OF TEACHING AND EXAMINATION**

BATCH\_2023



Department :Architecture

Semester:VI

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES6.1	PC	Campus Design	Architecture	1	7	0	8	8	80	20	100	-	200	-
	23DES6.2	PC	Theory of Architecture-II	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23DES6.3	PC	Landscape Architecture	Architecture	2	2	0	4	4	80	20	-	100	200	3 hrs
TECHNOLOGY	23TEC6.1	BS&AE	Building Construction and Materials-VI	Architecture	1	4	0	5	5	80	20	100	-	200	-
HUMANITIES	23HUM6.1	PC	Physical Planning	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM6.2	PC	Contemporary Architecture	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM6.3	UHV	Universal Human Values and Professional Ethics	Architecture/Allied	1	0	0	1	1	40	10	-	50	100	1 hr
ELECTIVES	23ARE6.1x	OE	Open Elective -I	Any	3	0	0	3	3	80	20	-	-	100	-
					17	13	0	30	30	600	150	200	450	1400	

**L-Lecture**

**CIE- Continuous Internal Evaluation**

**CA-Course Activity**

**S-Studio**

**SEE- Semester End Examination**

**PA-Progressive Assessment**

**P-Practical**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

**MNC- Mandatory Non**

**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses**

**UHV - Universal Human Values**

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**



**Bachelor of Architecture**  
**SCHEME OF TEACHING AND EXAMINATION**



Department :Architecture

Semester:VII

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES7.1	PC	Urban Infill Design	Architecture	2	8	0	10	10	80	20	100	-	200	-
	23DES7.2	PC	Specification, Estimation and Costing	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
TECHNOLOGY	23TEC7.1	BS&AE	Alternate Building Techniques	Architecture	1	4	0	5	5	80	20	100	-	200	-
	23TEC7.2	BS&AE	Acoustics in Architecture	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
HUMANITIES	23HUM7.1	PAECC	Professional Practice-I	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM7.2	PAECC	Traffic Awareness and Road Safety	Architecture	1	0	0	1	1	80	20	-	-	100	-
ELECTIVES	23ARE7.1x	PE	Elective - IV: Design and Practice	Architecture/Allied	3	0	0	3	3	80	20	-	-	100	-
	23ARE7.2x	OE	Open Elective-II	Any	3	0	0	3	3	80	20	-	-	100	-
-	23CRT7.1	SEC	Certification Course	Architecture	0	0	0	0	MNC	100	-	-	-	100	-
					19	12	0	31	31	740	160	200	300	1400	

**L-Lecture**

**CIE- Continuous Internal Evaluation**

**CA-Course Activity**

**S-Studio**

**SEE- Semester End Examination**

**PA-Progressive Assessment**

**P-Practical**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

**MNC- Mandatory Non Credit**

**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses. AEC- Ability Enhancement Courses**

**UHV - Universal Human Values**

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note :**

- 1) The certification course will be conducted for minimum 30 hours duration with an end examination
- 2) An International study tour will be arranged (optional across 1st to 10th semester)

**Elective - IV: Design and Practice**

Course Code	Course Title
23ARE7.11	Humanizing Public Spaces
23ARE7.12	Cultural Landscapes
23ARE7.13	Furniture Design
23ARE7.14	Architectural Journalism
23ARE7.15	Architectural Conservation
23ARE7.16	Digital Mapping for Design





Karnatak Law Society's  
**GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08**  
**Bachelor of Architecture**  
**SCHEME OF TEACHING AND EXAMINATION**

BATCH\_2023



Department :Architecture

Semester:VIII

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P/SE	Total		CIE		SEE		Total	
										PA	CA	VIVA/ TW	EXAM		
DESIGN	23DES8.1	PAECC	Professional Training	Architecture	16 weeks				16	100		100	-	200	-
					0	0	0	0	16	100	0	100	0	200	

**L-Lecture**

**S-Studio**

**P-Practical**

**MNC- Mandatory Non Credit**

Minimum Marks for passing:

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**

**CIE- Continuous Internal Evaluation**

**SEE- Semester End Examination**

**PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective**

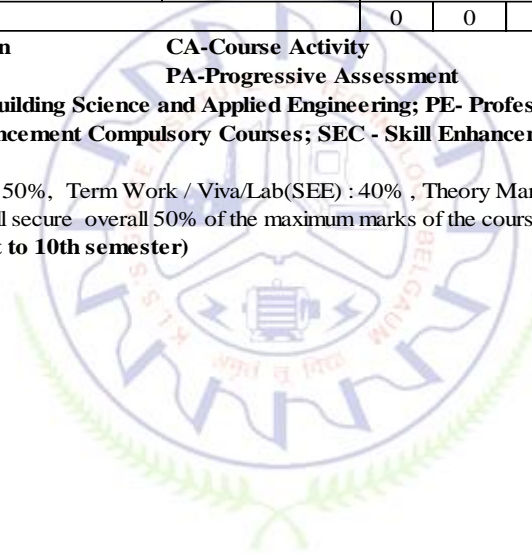
**PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses.**

**UHV - Universal Human Values**

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**AEC- Ability Enhancement Courses**





Karnatak Law Society's

GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08

Bachelor of Architecture

SCHEME OF TEACHING AND EXAMINATION

BATCH\_2023



Department :Architecture

Semester:IX

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks				Duration of Exam	
					L	S	P	Total		CIE		SEE			Total
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES9.1	PAECC	Dissertation (Thesis Part- I)	Architecture	2	4	0	6	6	80	20	-	-	100	-
	23DES9.2	PC	Energy Efficient Architecture	Architecture	1	7	0	8	8	80	20	100	-	200	-
	23DES9.3	PC	Interior Design	Architecture	1	3	0	4	4	80	20	100	-	200	-
HUMANITIES	23HUM9.1	PAECC	Professional Practice-II	Architecture	3	0	0	3	3	80	20	-	100	200	3 hrs
	23HUM9.2	SEC	Entrepreneurship skills	Any	2	0	0	2	2	80	20	-	-	100	-
ELECTIVES	23ARE9.1x	PE	Elective - V: Advance Technology	Architecture/ Allied	3	0	0	3	3	80	20	-	-	100	-
	23ARE9.2x	PE	Elective - VI: Management and Research	Architecture/ Allied	3	0	0	3	3	80	20	-	-	100	-
					15	14	0	29	29	560	140	200	100	1000	-

L-Lecture

S-Studio

P-Practical

MNC- Mandatory Non Credit

CIE- Continuous Internal Evaluation

SEE- Semester End Examination

PC - Professional Core; BS&amp;AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective

PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses.

UHV - Universal Human Values

CA-Course Activity

PA-Progressive Assessment

AEC- Ability Enhancement Courses

Minimum Marks for passing:

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

**Note: An International study tour will be arranged (optional across 1st to 10th semester)****Elective - V: Advance Technology**

Course Code	Course Title
23ARE9.11	Highrise Buildings
23ARE9.12	Advanced Building Technologies
23ARE9.13	BIM / Digital Architecture
23ARE9.14	Architectural Lighting

**Elective - VI: Management and Research**

Course Code	Course Title
23ARE9.21	Disaster Management
23ARE9.22	Earthquake Management
23ARE9.23	Research Methodology
23ARE9.24	Construction and Project Management
23ARE9.25	Real Estate Development



Department :Architecture

Karnatak Law Society's  
**GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08**  
**Bachelor of Architecture**  
**SCHEME OF TEACHING AND EXAMINATION**

BATCH\_2023



Semester:X

Course Stream	Course Code	Course Type	Course Title	Teaching Department	Contact Hrs				Credits	Marks					Duration of Exam
					L	S	P/SE	Total		CIE		SEE		Total	
										PA	CA	VIVA/TW	EXAM		
DESIGN	23DES10.1	PC	Architectural Design Project (Thesis Part-II)	Architecture	0	10	-	10	10	80	20	100	-	200	-
HUMANITIES	23HUM10.1	HSMC	Constitution of India and Professional Ethics	Architecture	2	0	-	2	2	80	20	-	-	100	-
					2	10	0	12	12	160	40	100	0	300	

L-Lecture

S-Studio

P-Practical

MNC- Mandatory Non Credit

Minimum Marks for passing:

CIE- Continuous Internal Evaluation

SEE- Semester End Examination

PC - Professional Core; BS&AE- Building Science and Applied Engineering; PE- Professional Elective; OE- Open Elective

PAECC - Professional Ability Enhancement Compulsory Courses; SEC - Skill Enhancement Courses.

UHV - Universal Human Values

Theory, Studio and Lab Marks (CIE) : 50%, Term Work / Viva/Lab(SEE) : 40% , Theory Marks (SEE) : 40%,

For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

CA-Course Activity

PA-Progressive Assessment

AEC- Ability Enhancement Courses

**Note: An International study tour will be arranged (optional across 1st to 10th semester)**



## MONO-SPACES AND RESIDENTIAL DESIGN

<b>Course Code</b>	<b>23DES1.1</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	8
<b>Hours/week: L-S-P</b>	1 – 7 – 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 14 Hrs; S = 98 Hrs; P = 00 Hrs  Total = 112 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	To develop an understanding of Anthropometric study and its implications on designing of mono functional spaces.
2.	To apply the anthropometric study and furniture layouts to provide Architectural solutions to mono functional spaces.
3.	To develop the ability to translate design into Architectural solutions.

**Pre-requisites :** Nil

<b>Unit – I: Anthropometry:</b>	<b>Contact Hours = 20 Hours</b>
a) Basic Anthropometrics, average measurements of the human body, its proportion and graphical representation. b) Basic human functions and their implications for space requirements. Minimum and optimum areas for mono functions. Movement and circulation diagrams, basic sense of scale of human body and its interrelationship with day to day objects and spaces.	

<b>Unit – II: Design of Mono-functional Spaces</b>	<b>Contact Hours = 28 Hours</b>
a) Design of a mono-functional space to understand the basic layouts for living, dining and kitchen.	

<b>Unit – III: Design Project</b>	<b>Contact Hours = 64 Hours</b>
<p>a) The project shall explore the integration of form, function, appropriate light, ventilation and Interspatial relationships. Projects for e.g. Two bedroom Residence, Weekend house, or project of similar nature and scale shall be chosen.</p> <p>Note:</p> <p>1.The design solution shall be explored through case study/study tour /design walk of the project of appropriate type and scale.</p> <p>2. The design solution shall be explored with the help of physical models.</p>	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Chakrabarti Debkumar: Indian Anthropometric Dimensions, National Institute of Design, 1997, India.
2.	Ching Francis D K: Architecture: Form, Space and Order, John Wiley & Sons Inc, 2007, New Jersey.
3.	Edwards Brain: Understanding Architecture through Drawing, Taylor and Francis, 2008, New York.
4.	Knauer Roland: Transformation - Basic Principles and Methodology of Design, James Gussen, 2008, Germany.
5.	Panero Julius, Zelnik Martin: Human dimension & Interior Space, Whitney Library of Design, New York, 1979.
6.	Bapat Shirish Vasant : Basic Design & Anthropometry, Bela Books Publishers for Technical Books, Pune, 1993, India.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Case Study	1.	Progressive Portfolio Assessment
2.	Drawings/Discussions on board	2.	Course Activity Assessment
3.	Model making	3.	Semester End Examination (TW)



<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Identify</b> and <b>illustrate</b> anthropometry of various mono functional spaces.	<b>Un, Ap</b>	1
2.	<b>Illustrate and relate</b> the functional relationship between various mono- functional spaces like Living, Dining and Kitchen.	<b>Ap, An</b>	1,2,3,4
3.	<b>Analyse</b> data, <b>apply</b> the theory to make conceptual diagram and <b>formulate</b> design programme	<b>An, Ap, Cr</b>	1,2,3,4
4.	<b>Develop</b> a design project by integrating form, function, light, ventilation and interspatial relationships.	<b>Ap, Cr</b>	1,2,3,4

<b>Scheme of Continuous Internal Evaluation (CIE):</b>				
Components	Portfolio Marking	Reviews	*Course Activity	Total Marks
Marks	40	40	20	100
<b>Minimum score to be eligible for SEE : 50 OUT OF 100</b>				

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	Term Work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$
3.	Students have to submit the portfolio at the end of the semester for SEE.

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
1	√											
2	√	√	√	√								
3	√	√	√	√								
4	√	√	√	√								

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## BASIC DESIGN AND DESIGN THINKING IN ARCHITECTURE

<b>Course Code</b>	<b>23DES1.2</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	4
<b>Hours/week: L-S-P</b>	1 – 3 – 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 14 Hrs; S = 42 Hrs; P = 0 Hrs  Total = 56 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	To develop an understanding of Principles of design and develop a series of compositions
2.	To expose students to various tools of sketching and painting.
3.	To develop the ability to appreciate the three-dimensional explorations of design and to introduce the students to the tools, techniques and materials used for model making.
4.	To develop the ability of Design thinking through an understanding of principles of design.

**Pre-requisites:** Nil

<b>Unit – I : Principles of Design</b>	<b>Contact Hours = 16 Hours</b>
<ul style="list-style-type: none"> <li>a) Understanding the design elements like Point, Line, Plane, Volume, Colour, Shape, Size and Texture.</li> <li>b) Understanding the design principles like Contrast, Harmony, Rhythm, Balance, Symmetry, Proportion, Repetition, Radiation, Gradation, Anomaly, Unity, Similarity and Concentration.</li> <li>c) Application of design principles in two dimensional and three dimensional compositions.</li> </ul>	

<b>Unit – II: Sketching and Observation</b>	<b>Contact Hours = 12 Hours</b>
<ul style="list-style-type: none"> <li>a) To develop sketching skills using various tools and exercises.</li> <li>b) Sketching of objects such as pots, chairs, sculptures, block compositions, still life, etc. using pencil only. Emphasis on understanding proportions and recreating it.</li> <li>c) Field trips to architecturally rich sites under guidance and exploring the processes and techniques of sketching with emphasis on understanding of perspective drawing of a live setting. Emphasis on understanding of proportions, silhouettes and details.</li> </ul>	

<b>Unit – III: Colour Theory</b>	<b>Contact Hours = 08 Hours</b>
a) Colour wheel; primary, secondary and tertiary colours; colour schemes, exercises in understanding of colour value and intensity. b) Use of painting tools and materials like easels, brushes, paper, watercolour and poster colour.	

<b>Unit – IV: Introduction to Model making</b>	<b>Contact Hours = 08 Hours</b>
a) Introduction to concepts of model making and various materials used for model making. b) Preparation of base for models using wood or boards. c) Introduction to block models of buildings or 3D Compositions involving the usage of various materials like Soap/Wax, Boards, Wood, Clay, etc.	

<b>Unit – V : Detailed Modelling</b>	<b>Contact Hours = 12 Hours</b>
a) Making detailed models which includes the representation of various building elements like Walls, Columns, Roofs, Steps, Windows/glazing, Sunshades, Handrails using appropriate materials b) Representing various surface finishes like brick/stone representation, stucco finish etc. Various site elements – Contour representation, Roads/Pavements, Trees/Shrubs, Lawn, Water bodies, Street furniture, Fencing etc.	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Dunn Nick, Architectural Model Making, Laurence King Publishing/Year 2010 and onwards.
2.	Wong Wucius, Principles of Form and Design, Van Nostrand Rein Hold, New York, 1993.
3.	Knauer Roland: Transformation - Basic principles and methodology of design, James Gussen, 2008, Germany.
4.	Ching Francis D K: Architecture: Form, Space and Order, John Wiley & Sons Inc, 2007, New Jersey

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	PPT and Videos	1.	Progressive Portfolio Assessment
2.	Demonstration, Exercise on 2d and 3d compositions	2.	Course Activity Assessment
3.	Models	3.	Semester End Examination (TW)

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Identify</b> and <b>demonstrate</b> various principles of Design through series of compositions.	<b>Un, Ap</b>	1,2
2.	<b>Demonstrate</b> ability to illustrate three dimensional forms through sketching and colouring using various tools.	<b>Un</b>	1
3..	<b>Demonstrate</b> concepts of model making using various materials.	<b>Un</b>	1
3.	<b>Develop</b> the ideas of block modelling through series of geometrical 3D form building.	<b>Ap</b>	1,2
4.	<b>Illustrate</b> presentation in model making and <b>identify</b> variables like selection of material, scale, model making techniques and surface finishes.	<b>Un, Ap</b>	1,2,3
5.	<b>Apply</b> the concepts and model making techniques to <b>create</b> conceptual block modelling and arrive at design presentation.	<b>Ap, Cr</b>	1,2,3
6.	<b>Create</b> a major three dimensional model project by integrating various building elements and model making techniques.	<b>Cr</b>	1,2,3

<b>Scheme of Continuous Internal Evaluation (CIE):</b>				
Components	Portfolio Marking	Reviews	*Course Activity	Total Marks
Marks	40	40	20	100
<b>Minimum score to be eligible for SEE : 50 OUT OF 100</b>				

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	Term Work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$
3.	Students have to submit the portfolio at the end of the semester for SEE.

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
1	√	√										
2	√											
3	√	√										
4	√	√	√									
5	√	√	√									
6	√	√	√									

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus



## BUILDING CONSTRUCTION AND MATERIALS – I

<b>Course Code</b>	<b>23TEC1.1</b>	<b>Course type</b>	<b>BS &amp; AE</b>	<b>Total credits</b>	5
<b>Hours/week: L-S-P</b>	1 – 4- 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 14 Hrs; S=56 Hrs; P=00 Hrs  Total = 70 Hrs			<b>SEE Marks</b>	100

### Course learning objectives

1.	To introduce the fundamentals of building components to students.
2.	Introduction to materials and construction methods used in foundations, walls, arches and lintels
3.	Visits to construction yard/site to understand working with brick as a material and its methods of construction.

**Pre-requisites : Nil**

#### **Unit – I: Introduction to Building materials**

**Contact Hours = 14 Hours**

- a) Introduction to various building components and their functions, conventions used in drawing plans, sections, elevations.

#### **Unit – II: Brick and building blocks**

**Contact Hours = 14 Hours**

- a) Introduction to Bricks
- b) Brick as a Building material- Types- conventional burnt bricks, clay hollow blocks, to study properties, uses and manufacturing methods.
- c) Types of brick masonry – Conventional Walls, Jali Walls, Wall junctions, Bonds, Buttresses, Arches, Lintels, Vaults and Domes.
- d) Non-conventional Bricks - Autoclave concrete blocks, fly ash blocks, aerated concrete blocks, Soil Stabilized Earth Blocks, to study properties, uses and manufacturing methods.
- e) Field visit to construction sites and hands on exploration of basic brick masonry bonds.

#### **Unit – III: Stone Technology**

**Contact Hours = 14 Hours**

- a) Introduction to Stones
- b) Stone as a Building material- Types, properties, uses, methods of quarrying and types of dressing.
- c) Types of stone masonry - Walls, Wall junctions, Bonds, Buttresses, Arches, Lintels, Vaults and domes.
- d) Field visit to see stone masonry buildings and hands on exploration of basic stone masonry.

Note: Field visit to study different types of stones and finishes as to explore various types of construction details

<b>Unit – IV: Foundation and Walls</b>	<b>Contact Hours = 14Hours</b>
a) Introduction to Foundation. b) Function and types of foundations. c) Load bearing foundations in Brick and Stone.	

<b>Unit – V: Concrete as a building material</b>	<b>Contact Hours = 14 Hours</b>
a) Introduction b) Types of cement used in building, properties, grades and uses. c) Introduction to materials like fine and coarse aggregates, their sources etc.	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Barry R, The Construction of Buildings, Volume 1, Blackwell Science, Seventh Edition 1999, Oxford, UK.
2.	Chudley R and Greeno R, Building Construction Handbook, Seventh Edition, Elsevier, 2008, Oxford, UK.
3.	Ching D. K, Building Construction Illustrated, Fourth Edition, John Wiley & Sons, 2008, New Jersey, USA
4.	Mckay W.B., Building Construction, Donhead, 2005
5.	Rangawala S. C, Engineering Materials, 43rd edition, Charotar Publishing House Pvt. Ltd, 2017, India
6.	Kumar Sushil, Building Construction, Standard Publishers Distributors,

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Progressive Portfolio Assessment
3.	Site Visits	3.	Course Activity Assessment
4.	Case study	4.	Semester End Examination (TW)

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Illustrate</b> and <b>apply</b> various building conventions related to building technology.	<b>Un, Ap</b>	1
2.	<b>Illustrate</b> and <b>explain</b> various building components and their properties.	<b>Un</b>	1
3.	<b>Demonstrate</b> construction techniques of Bricks and Stones.	<b>Un</b>	1,5
4.	<b>Illustrate</b> various types of masonry foundations.	<b>Un</b>	1,5
5.	<b>Explain</b> the uses of cement as a building material	<b>Un</b>	1

**Scheme of Continuous Internal Evaluation (CIE):**

Components	Addition of two IA tests	Portfolio marking	*Course Activity	Total Marks
Marks	30+30= 60	20	20	100

**Minimum score to be eligible for SEE : 50 OUT OF 100**

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	Term Work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$
3.	Students have to submit the portfolio at the end of the semester for SEE.

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
1	√											
2	√											
3	√				√							
4	√				√							
5	√											



Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## ARCHITECTURAL GRAPHICS - I

<b>Course Code</b>	<b>23TEC1.2</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	5
<b>Hours/week: L-S-P</b>	1- 4- 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 14 Hrs; S = 56 Hrs; P = 0 Hrs  Total = 70 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	To introduce the students to the fundamentals of drawing techniques.
2.	To introduce students to the two-dimensional representations of built elements and built forms.
3.	To develop the ability of the students to perceive three dimensional objects and enhance the visualization skills.

**Pre-requisites : Nil**

<b>Unit – I: Introduction to Visual Representations and Euclidean Geometry</b>	<b>Contact Hours = 20 Hours</b>
<ul style="list-style-type: none"> <li>a) Introduction to basic principles of drawing and lettering used in Architectural drawings.</li> <li>b) Introduction to sign conventions used in drawings.</li> <li>c) Concept of scale, dimensioning and its application in Architectural drawing.</li> <li>d) Construction of Lines, Angles, Triangles, Quadrilaterals and Regular Polygons.</li> <li>e) Construction of Plane Curves, Ellipse, Parabola, Hyperbola and Oval.</li> </ul>	

<b>Unit – II: Orthographic Projection (First Angle Projection)</b>	<b>Contact Hours = 25 Hours</b>
<ul style="list-style-type: none"> <li>a) Principles of Orthographic Projection, Projection of Points, Lines, Planes and Solids.</li> <li>b) Orthographic Projection of simple Architectural built elements and complex built forms.</li> </ul>	

<b>Unit – III: Three Dimensional Projections – Isometric and Axonometric</b>	<b>Contact Hours = 25 Hours</b>
<ul style="list-style-type: none"> <li>a) Introduction to Isometric Projections and views of solids.</li> <li>b) Isometric views of simple built elements and built forms.</li> <li>c) Introduction to Axonometric views of solids.</li> <li>d) Axonometric views of simple built elements and complex built forms which includes exploded view/ expanded views of mono functional spaces.</li> </ul>	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Ching Francis D. K: Architectural Graphics, John Wiley and Sons Inc., New York, 1996 and onwards.
2.	Gopalkrishna K R: Engineering Graphics, Sree Offset, Bangalore, 1990 and onwards.
3.	Bhatt N. D., Engineering drawing, Charotar Publishing House, 1986 and onwards.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Progressive Portfolio Assessment
3.	Models	3.	Course Activity Assessment
		4.	Semester End Examination (TW)

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Illustrate</b> fundamental drawing techniques and principles used in Architectural presentation.	<b>Un</b>	1, 5
2.	<b>Illustrate</b> the concepts of scale and proportion and <b>apply</b> to Architectural drawings.	<b>Un, Ap</b>	1
3.	<b>Demonstrate</b> skills in drafting and communicating design of built elements and <b>apply</b> it to two dimensional and three dimensional graphical representations.	<b>Un, Ap</b>	1, 5
4.	<b>Apply</b> the theoretical knowledge in translating the graphical ideas into technically appropriate drawing presentations.	<b>Ap</b>	1, 5



Scheme of Continuous Internal Evaluation (CIE):				
Components	Addition of two IA tests	Portfolio Marking	*Course Activity	Total Marks
Marks	30+30= 60	20	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>				

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

Scheme of Semester End Examination (SEE):	
1.	Term Work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$
3.	Students have to submit the portfolio at the end of the semester for SEE.

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
1	√				√							
2	√											
3	√				√							
4	√				√							

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## EVOLUTION OF STRUCTURES AND ENGINEERING MECHANICS

<b>Course Code</b>	<b>23TEC1.3</b>	<b>Course type</b>	<b>BS &amp; AE</b>	<b>Total credits</b>	3
<b>Hours/week: L - S- P</b>	3 – 0 – 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 42 Hrs; S = 0 Hrs; P = 0 Hrs Total = 42 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	Introduce students to evolution of structures, structural systems and structural materials.
2.	Comprehend the action of forces, moments and couples on rigid bodies at rest and compute the Resultant.
3.	Outline the concept of equilibrium and its application to analyse problems on statics including friction and analysis of statically determinate beams.
4.	Discuss the concepts of Centroid and Moment of Inertia with applications to Engineering Sections.
5.	Learn to analyse pin-jointed plane perfect frames by different methods.

**Pre-requisites:** Fundamentals of Physics and Mathematics

<b>Unit – I: Evolution of Structures, Structural Systems and Structural materials</b>	<b>Contact Hours = 08 Hours</b>
<ul style="list-style-type: none"> <li>a) Observation and analysis of structural systems present in the nature.</li> <li>b) Historic perspective, Vertical/lateral systems, Mechanical properties of Structural Materials.</li> <li>c) Advantages and Disadvantages of Structural Materials for Domestic and Industrial buildings.</li> </ul>	

<b>Unit – II: Principles of Statics</b>	<b>Contact Hours = 09 Hours</b>
<ul style="list-style-type: none"> <li>a) Scalars and Vectors: Principles of Statics, Characteristics and Classification of Forces, Composition and Resolution of Forces.</li> <li>b) Principle of transmissibility of Forces, resultant and equilibrant of coplanar, concurrent and non-concurrent Force systems.</li> <li>c) Equations of static equilibrium and concept of Free-body diagrams.</li> </ul>	

<b>Unit – III: Equilibrium of Force Systems</b>	<b>Contact Hours = 09 Hours</b>
<ul style="list-style-type: none"> <li>a) Equilibrium of coplanar concurrent and coplanar non-concurrent force systems.</li> <li>b) Support Reactions – Types of loading and support conditions and their significance.</li> <li>c) Concept of statically determinate and indeterminate structures.</li> <li>d) Determination of support reactions for statically determinate Beams and Trusses.</li> </ul>	

<b>Unit – IV: Centroid and Moment of Inertia</b>	<b>Contact Hours = 08 Hours</b>
<ul style="list-style-type: none"> <li>a) Determination of Centroid of simple lamina (symmetrical and asymmetrical).</li> <li>b) Moment of Inertia and Radius of Gyration of simple cross-sections of beams and columns including built-up sections.</li> <li>c) Concept of Polar Moment of Inertia (Basic theory and application of formulas for solving numerical problems).</li> </ul>	

<b>Unit – V : Analysis of Truss</b>	<b>Contact Hours = 08 Hours</b>
<ul style="list-style-type: none"> <li>a) Concept of triangulation in Truss, common truss configurations.</li> <li>b) Definition of perfect, deficient and redundant trusses.</li> <li>c) Introduction to methods of analysis of trusses (simple problems).</li> </ul>	

<b>Books</b>	
	<b>Text Books:</b>
1.	Nitsure S.P. and Sawant H. J., “Elements of Civil Engineering and Engineering Mechanics”, Technical Publications, First Edn, 2014
2.	Bansal R.K., Rakesh Ranjan Beohar and Ahmad Ali Khan, “Basic Civil Engineering and Engineering Mechanics”, Laxmi Publications, 2015
3.	Bhavikatti S. S., “Engineering Mechanics”, New Age International, 2019.
	<b>Reference Books:</b>
1.	Beer F. P. and Johnston E. R., “Mechanics for Engineers, Statics and Dynamics”, McGraw Hill, 1987,
2.	Timoshenko S., Young D.H., Rao J.V., “Engineering Mechanics”, 5 <sup>th</sup> Edition, Pearson Press, 2017
3.	Irving H. Shames, “Engineering Mechanics”, Prentice-Hall, 2019
	<b>E-resources (NPTEL/SWAYAM, Any Other)- mention links</b>
1.	<a href="https://nptel.ac.in/courses/122/102/122102004/">https://nptel.ac.in/courses/122/102/122102004/</a>
2.	<a href="https://unacademy.com/lesson/introduction-to-engineering-mechanics/2N4HJ9AB">https://unacademy.com/lesson/introduction-to-engineering-mechanics/2N4HJ9AB</a>

Course delivery methods		Assessment methods	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

Course Outcome (COs)			
At the end of the course, the student will be able to,			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create		Learning Level	PO(s)
1.	<b>Outline</b> the principles of Engineering Mechanics and <b>apply</b> the principles to <b>analyse</b> the rigid bodies under concurrent and non-concurrent force systems.	<b>Un, Ap, An</b>	1, 3
2.	<b>Examine</b> the conditions of static equilibrium and its <b>applications</b> to practical problems.	<b>Ap, An</b>	1, 3
3.	<b>Explain</b> the significance of sectional properties such as Centroid and Moment of Inertia in the analysis and design and <b>apply</b> the concepts to Engineering problems.	<b>Un, Ap</b>	1, 3
4.	<b>Analyse</b> the forces in the members of the plane pin jointed trusses required for design purpose.	<b>An</b>	1, 3

Scheme of Continuous Internal Evaluation (CIE):			
Components	Addition of two IA tests	*Course Activity	Total Marks
Marks	40+40 = 80	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>			

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

- |    |   |
|----|---|
| 1. | It will be conducted for 100 marks of 3 hours duration.   |
| 2. | <b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b>  |
| 3. | Question paper contains three parts <b>A, B and C</b> . Students have to answer <ol style="list-style-type: none"> <li>1. From Part A answer any 5 questions each Question carries 6 Marks.</li> <li>2. From Part B answer any one full question from each unit and each Question carries 10 Marks.</li> <li>3. From Part C answer any one full question and each Question carries 20 Marks.</li> </ol> |

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
1	√		√									
2	√		√									
3	√		√									
4	√		√									

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## HISTORY OF ARCHITECTURE I

<b>Course Code</b>	<b>23HUM1.1</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	3
<b>Hours/week: L - S- P</b>	3 – 0 – 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 42 Hrs; S = 0 Hrs; P = 0 Hrs  Total = 42 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	To comprehend Prehistoric and Historic periods of architecture like River valley cultures, Pre-classical cultures of Western, Buddhist, Vedic and Classical cultures of Buddhist and Jains.
2.	To demonstrate Architectural characteristics of different Historic periods through various examples.
3.	To discuss how the influences such as geography, climate, resources and cultures affect the architecture of the place.

**Pre-requisites:** Nil

<b>Unit-I : Introduction</b>	<b>Contact Hours = 09 Hours</b>
a) Introduction to Pre-Historic Civilization: Primitive man - shelters, settlements, religious and burial systems. E.g.: Oval hut at Nice, Dolmen tomb, Gallery grave, Passage grave, Houses at Catal Huyuk, Henge Monuments and Stone Henge.	

<b>Unit-II : River Valley Cultures</b>	<b>Contact Hours = 09 Hours</b>
Introduction, Critical appreciation of works and synoptic study of Architectural characteristic features from the following periods:	
a) Indus Valley Civilization: e.g. Layout of Mohenjo-Daro, House plan, Community well, Great Bath and Granary at Mohenjo-Daro	
b) Tigris and Euphrates Valley Civilization (Mesopotamian Civilization): e.g. Ziggurats at Warka, Ur, Tchoga Zanbil and Palace of Sargon.	
c) Nile Valley Civilization (Egyptian Civilization): e.g. Mastaba Tombs, Pyramid of Cheops, Temple of Khons at Karnak and Obelisk.	



<b>Unit – III: Pre-Classical Cultures: Western</b>	<b>Contact Hours = 08 Hours</b>
Introduction, Critical appreciation of works and synoptic study of Architectural characteristic features from the following periods:	
<ul style="list-style-type: none"> <li>a) Mycenea: e.g. Palace at Tiryns, Treasury of Atreus.</li> <li>b) Persia: e.g. Palace of Persepolis.</li> <li>c) Etruscan: e.g. Temple of Juno Sospita, Tomb of Cyrus, Pasargadae</li> </ul>	

<b>Unit – IV : Pre-Classical Cultures: Vedic and Buddhist</b>	<b>Contact Hours = 08 Hours</b>
<ul style="list-style-type: none"> <li>a) Pre-classical Aryan and Mauryan: Vedic and Epic Age Salient features e.g. – Vedic Village and Vedic Houses.</li> <li>b) Early Buddhist Rock-cut Architecture: Experiments at Barabar Hills-Lomas Rishi Cave, Sudama Cave and Nagarjun Hills-Sita Marhi Cave.</li> </ul>	

<b>Unit – V : Classical Cultures: Buddhist and Jain</b>	<b>Contact Hours =08 Hours</b>
<ul style="list-style-type: none"> <li>a) Buddhist: Study of design principles. Typologies: Stupa (Great Stupa at Sanchi), Chaitya (Chaitya at Karli), Viharas(Viharas at Ajanta), and Toranas(Torana at Sanchi)</li> <li>b) Jain Architecture: Study of design principles. Typologies: Temples (Adinatha Temple at Ranakpur and Vimala Vasai at Mount Abu).</li> </ul>	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Fletcher Banister: A History of Architecture, CBS publishers & distributors, 1992, India.
2.	Brown Percy: Indian Architecture, Buddhist and Hindu Period, D B Taraporevala sons & co, 1983, Bombay.
3.	Grover Satish: Architecture of India – Buddhist and Hindu, Vikas publishing house pvt. Ltd. 1980, New Delhi.
4.	Tomory Edith: History of Fine Arts in India and The West, Orient Longman Ltd., 1982, New Delhi.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
3.	Documentary Videos	3.	Semester End Examination

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to ,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>List</b> and <b>explain</b> the architectural characteristics of the Prehistoric and Historic periods of architecture like River valley cultures, Pre-classical cultures of Western, Buddhist and Vedic and Classical cultures of Buddhist and Jains.	<b>Re, Un</b>	1, 3
2.	<b>Identify</b> and <b>list</b> the Architectural characteristics of different Historic periods through various Architectural examples.	<b>Ap, An</b>	1, 3
3.	<b>Evaluate</b> the influences such as geography, climate, resources and cultures affecting the architecture of the place.	<b>Ev</b>	1, 3

**Scheme of Continuous Internal Evaluation (CIE):**

Components	Addition of two IA tests	*Course Activity	Total Marks
Marks	40+40 = 80	20	100

**Minimum score to be eligible for SEE: 50 OUT OF 100**

**\*Note:**

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	It will be conducted for 100 marks of 3 hours duration.
2.	<b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b>
3.	Question paper contains three parts <b>A, B and C</b> . Students have to answer 1. From Part A answer any 5 questions each Question carries 6 Marks. 2. From Part B answer any one full question from each unit and each Question carries 10 Marks. 3. From Part C answer any one full question and each Question carries 20 Marks.

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	√		√									
2	√		√									
3	√		√									



Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

**SAMSKRUTIKA KANNADA**

<b>Course Code</b>	<b>23HUMS1.2</b>	<b>Course type</b>	<b>SEC</b>	<b>Total credits</b>	<b>1</b>
<b>Hours/week: L - S- P</b>	1 - 0 - 0			<b>CIE Marks</b>	<b>50</b>
<b>Total Contact Hours</b>	L = 15 Hrs; S = 0 Hrs; P = 0 Hrs Total = 15 Hrs			<b>SEE Marks</b>	<b>50</b>

**Course learning objectives : ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡ ಪಠ್ಯ ಕಲಿಕೆಯ ಉದ್ದೇಶಗಳು :**

1. ಪದವಿ ವಿದ್ಯಾರ್ಥಿಗಳಾಗಿರುವುದರಿಂದ ಕನ್ನಡ ಭಾಷೆ, ಸಾಹಿತ್ಯ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಪರಿಚಯ ಮಾಡಿಕೊಳ್ಳುವುದು.
2. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಧಾನ ಭಾಗವಾದ ಆಧುನಿಕಪೂರ್ವ ಮತ್ತು ಆಧುನಿಕ ಕಾವ್ಯಗಳನ್ನು ಪರಿಚಯಿಸುವುದು.
3. ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ, ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಬಗ್ಗೆ ಅರಿವು ಹಾಗೂ ಆಸಕ್ತಿಯನ್ನು ಮೂಡಿಸುವುದು.
4. ತಾಂತ್ರಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯವನ್ನು ಹಾಗೂ ಅವರುಗಳ ಸಾಧಿಸಿದ ವಿಷಯಗಳನ್ನು ಪರಿಚಯಿಸುವುದು.
5. ಸಾಂಸ್ಕೃತಿಕ, ಜನಪದ ಹಾಗೂ ಪ್ರವಾಸ ಕಥನಗಳ ಪರಿಚಯ ಮಾಡಿಕೊಳ್ಳುವುದು.

**Pre-requisites: ಕನ್ನಡ ಬಲ್ಲ ಮತ್ತು ಮಾತೃಭಾಷೆಯ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ**

**Unit – I:ಘಟಕ-1 ಕನ್ನಡ ಸಂಸ್ಕೃತಿ ಮತ್ತು ಭಾಷೆ ಕುರಿತಾದ ಲೇಖನಗಳು** **Contact Hours = 03 Hours**

- Content of the Unit :**
1. ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿ : ಪಂಪ ನಾಗರಾಜಯ್ಯ
  2. ಕರ್ನಾಟಕದ ಏಕೀಕರಣ: ಒಂದು ಅಪೂರ್ವ ಚರಿತ್ರೆ - ಜಿ. ವೆಂಕಟಸುಬ್ಬಯ್ಯ
  3. ಆಡಳಿತ ಭಾಷೆಯಾಗಿ ಕನ್ನಡ - ಡಾ. ಎಲ್. ತಿಮ್ಮೇಶ ಮತ್ತು ಪ್ರೊ. ವಿ. ಕೇಶವಮೂರ್ತಿ

**Unit – II:ಆಧುನಿಕ ಪೂರ್ವದ ಕಾವ್ಯಭಾಗ** **Contact Hours = 03 Hours**

- Content of the Unit :**
1. ವಚನಗಳು : ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ, ಅಲ್ಲಮಪ್ರಭು, ಆಯ್ಯಕ್ಕಿ ಮಾರಯ್ಯ, ಜೇಡರದಾಸಿಮಯ್ಯ , ಆಯ್ಯಕ್ಕಿ ಲಕ್ಕಮ್ಮ
  2. ಕೀರ್ತನೆಗಳು : ಅದರಿಂದೇನು ಫಲ ಇದರಿಂದೇನು ಫಲ - ಪುರಂದರದಾಸರು  
ತಲ್ಲಣಿಸಿದಿರು ಕಂಡ್ಯ ತಾಳು ಮನವೇ - ಕನಕದಾಸರು
  3. ತತ್ವಪದಗಳು : ಸಾವಿರ ಕೊಡಗಳ ಸುಟ್ಟು - ಶಿಶುನಾಳ ಶರೀಫ

<b>Unit – III:ಆಧುನಿಕ ಕಾವ್ಯಭಾಗ</b>	<b>Contact Hours = 03 Hours</b>
<b>Content of the Unit :</b> 1. ಡಿವಿಜಿ ರವರ ಮಂಕುತಿಮ್ಮನ ಕಗ್ಗದಿಂದ ಆಯ್ದ ಕೆಲವು ಭಾಗಗಳು 2. ಕುರುಡು ಕಾಂಚಾಣ : ದ. ರಾ. ಬೇಂದ್ರೆ 3. ಹೊಸಬಾಳಿನ ಗೀತೆ : ಕುವೆಂಪು	

<b>Unit – IV ತಾಂತ್ರಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯ</b>	<b>Contact Hours = 03 Hours</b>
<b>Content of the Unit:</b> 1. ಡಾ. ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ : ವ್ಯಕ್ತಿ ಮತ್ತು ಐತಿಹ್ಯ - ಎ. ಎನ್. ಮೂರ್ತಿರಾವ್ 2. ಕರಕುಶಲ ಕಲೆಗಳು ಮತ್ತು ಪರಂಪರೆಯ ವಿಜ್ಞಾನ : ಕರೀಗೌಡ ಬೀಚನಹಳ್ಳಿ	

<b>Unit –V ಸಾಂಸ್ಕೃತಿಕ , ಜನಪದ ಕಥೆ ಮತ್ತು ಪ್ರವಾಸ ಕಥನ</b>	<b>Contact Hours = 03 Hours</b>
<b>Content of the Unit :</b> 1.ಯುಗಾದಿ : ವಸುಧೇಂದ್ರ 2. ಮಗಾನೆ ಎಂಬ ಗಿರಿಜನ ಪರ್ವತ : ಹಿ. ಚಿ. ಬೋರಲಿಂಗಯ್ಯ	

<b>Books</b>	
	<b>Reference Books:</b>
1.	<b>ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡ</b> ಡಾ. ಹಿ.ಚಿ.ಬೋರಲಿಂಗಯ್ಯ ಮತ್ತು ಡಾ. ಎಲ್. ತಿಮ್ಮಶ, ಪ್ರಸಾರಾಂಗ, ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to ,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	ಕನ್ನಡ ಭಾಷೆ, ಸಾಹಿತ್ಯ ಮತ್ತು ಕನ್ನಡದ ಸಂಸ್ಕೃತಿಯ ಕುರಿತು ಅರಿವು ಮೂಡಿರುತ್ತದೆ.	Re, Un	10
2.	ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಆಧುನಿಕ ಪೂರ್ವಮತ್ತು ಆಧುನಿಕ ಕಾವ್ಯಗಳನ್ನು ಸಾಂಕೇತಿಕವಾಗಿ ಕಲಿತು ಹೆಚ್ಚಿನ ಅವಧಿಗೆ ಮತ್ತು ಜ್ಞಾನಕ್ಕೆ ಸ್ಪೂರ್ತಿ ಮೂಡುತ್ತದೆ.	Re, Un	10
3.	ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ, ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಬಗ್ಗೆ ಅರಿವು ಹಾಗೂ ಆಸಕ್ತಿಯನ್ನು ಮೂಡುತ್ತದೆ.	Re, Un	10
4.	ತಾಂತ್ರಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯವನ್ನು ಹಾಗೂ ಅವರುಗಳ ಸಾಧಿಸಿದ ವಿಷಯಗಳ ಪರಿಚಯವಾಗುತ್ತದೆ.	Re, Un	10
5.	ಸಾಂಸ್ಕೃತಿಕ, ಜನಪದ ಹಾಗೂ ಪ್ರವಾಸ ಕಥನಗಳ ಪರಿಚಯವಾಗುತ್ತದೆ.	Re, Un	10

<b>Scheme of Continuous Internal Evaluation (CIE):</b>			
Components	Addition of two IA tests	*Course Activity	Total Marks
	15 + 15 = 30	10 + 10 = 20	50
<b>Two Unit Tests each of 15 Marks (duration ½ hour)</b>			
<ul style="list-style-type: none"> <li>• First test after the completion of 30-40% of the syllabus</li> <li>• Second test after completion of 80-90%of the syllabus</li> </ul>			
<b>Minimum score to be eligible for SEE: 25 OUT OF 50</b>			

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph/ others) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

<b>Scheme of Semester End Examination (SEE):</b>	
1.	It will be conducted for 50 marks of 1 hour duration.
2.	<b>Minimum marks required in SEE to pass: Score should be ≥40% however overall score of CIE + SEE should be ≥50%</b>
3.	Question paper contains <b>50 questions, each of the 01 mark.</b> The pattern of the <b>question paper is MCQ (Multiple Choice Questions).</b>

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1										√		
2										√		
3										√		
4										√		
5										√		



Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus



## BALAKE KANNADA

<b>Course Code</b>	<b>23HUMB1.2</b>	<b>Course type</b>	<b>SEC</b>	<b>Total credits</b>	1
<b>Hours/week: L - S- P</b>	1 – 0 – 0			<b>CIE Marks</b>	50
<b>Total Contact Hours</b>	L = 15 Hrs; S = 0 Hrs; P = 0 Hrs Total = 15 Hrs			<b>SEE Marks</b>	50

### Course learning objectives

1.	To create awareness regarding the necessity of learning local language for comfortable and healthy life.
2.	To enable learners to Listen and understand the Kannada language properly.
3.	To speak, read and write Kannada language as per requirement.
4.	To train the learners for correct and polite conversation.
5.	To know about Karnataka state and its language, literature and General information about this state.

**Pre-requisites:** Nil

### Unit – I

**Contact Hours = 03 Hours**

- Necessity of learning a local language. Methods to learn the Kannada language.
- Easy learning of a Kannada Language: A few tips. Hints for correct and polite conversation, Listening and Speaking Activities, Key to Transcription.
- Personal pronouns, Possessive Forms, Interrogative words

### Unit–II

**Contact Hours =03 Hours**

- Possessive forms of nouns, dubitive question and Relative nouns.
- Qualitative, Quantitative and Colour Adjectives, Numerals adjectives.
- Predictive Forms, Locative Case

### Unit – III

**Contact Hours = 03 Hours**

- Dative Cases and Numerals
- Ordinal numerals and Plural markers.
- Defective/Negative Verbs and Colour Adjectives

<b>Unit – IV</b>	<b>Contact Hours=03 Hours</b>
a) Permission, Commands, encouraging and Urging words (Imperative words and sentences) b) Accusative Cases and Potential Forms used in General Communication c) Helping Verbs “iruandiralla”, Corresponding Future and Negation Verbs d) Comparative , Relationship, Identification and Negation Words	

<b>Unit – V</b>	<b>Contact Hours=3 Hours</b>
a) Different types of Tense, Time and Verbs b) Formation of Past, Future and Present Tense Sentences with Verb Forms c) Kannada Words in Conversation	

<b>Books</b>	
<b>Reference Books:</b>	
1.	ಬಳಕೆ ಕನ್ನಡ ಲೇಖಕರು : ಡಾ. ಎಲ್. ತಿಮ್ಮಶ ಪ್ರಸಾರಾಂಗ, ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to ,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	Understand the necessity of learning of local language for comfortable life.	Un	10
2.	Speak, read and write Kannada language as per requirement.	Un, Ap	10
3.	Communicate (converse) in Kannada language in their daily life with Kannada speakers	Ap	10
4.	Listen and understand the Kannada language properly.	Un	10
5.	Speak in polite conversation.	Ap	10

Scheme of Continuous Internal Evaluation (CIE):			
Components	Addition of two IA tests	OBA (Open Book Assignment)	Total Marks
Marks	20 + 20 = 40	10	50
<b>Minimum score to be eligible for SEE: 25 OUT OF 50</b>			

Scheme of Semester End Examination (SEE):	
1.	It will be conducted for 50 marks of 1 hour duration.
2.	<b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b>
3.	Question paper contains <b>50 questions, each of the 01 mark</b> . The pattern of the <b>question paper is MCQ</b> (Multiple Choice Questions).

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1										√		
2										√		
3										√		
4										√		
5										√		

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## SCIENTIFIC FOUNDATIONS OF HEALTH

<b>Course Code</b>	<b>23HUM1.3</b>	<b>Course type</b>	<b>AEC</b>	<b>Total credits</b>	<b>1</b>
<b>Hours/week: L - S- P</b>	1 – 0 – 0			<b>CIE Marks</b>	<b>50</b>
<b>Total Contact Hours</b>	L = 15 Hrs; S = 0 Hrs; P = 0 Hrs  Total = 15 Hrs			<b>SEE Marks</b>	<b>50</b>

<b>Course learning objectives</b>	
1.	To know about Health and wellness (and its Beliefs) and its balance for positive mind-set.
2.	To Build the healthy lifestyles for good health for their better future.
3.	To Create a Healthy and caring relationships to meet the requirements of good/social/positive life.
4.	To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future
5.	To Prevent and fight against harmful diseases for good health through positive mind-set.

<b>Unit – I Good Health &amp; It's balance for positive mind-set:</b>	<b>Contact Hours = 03 Hours</b>
Health -Importance of Health, Influencing factors of Health, Health beliefs, Advantages of good health, Health & Behavior, Health & Society, Health & family, Health & Personality, Psychological disorders-Methods to improve good psychological health, Changing health habits for good health.	

<b>Unit – II Building of healthy lifestyles for better future:</b>	<b>Contact Hours = 03 Hours</b>
Developing healthy diet for good health, Food & health, Nutritional guidelines for good health, Obesity & overweight disorders and its management, Eating disorders, Fitness components for health, Wellness and physical function, How to avoid exercise injuries.	

<b>Unit – III Creation of Healthy and caring relationships :</b>	<b>Contact Hours = 03 Hours</b>
Building communication skills, Friends and friendship - Education, the value of relationship and communication skills, Relationships for Better or worsening of life, understanding of basic instincts of life (more than a biology), Changing health behaviours through social engineering.	

<b>Unit – IV Avoiding risks and harmful habits :</b>	<b>Contact Hours = 03 Hours</b>
Characteristics of health compromising behaviours, Recognizing and avoiding of addictions, How addiction develops, Types of addictions, influencing factors of addictions, Differences between addictive people and non-addictive people & their behaviours. Effects of addictions and how to recovery from addictions.	

<b>Unit – V Preventing and fighting against diseases for good health:</b>	<b>Contact Hours = 03 Hours</b>
How to protect from different types of infections, How to reduce risks for good health, Reducing risks & coping with chronic conditions, Management of chronic illness for Quality of life, Health & Wellness of youth :a challenge for upcoming future, Measuring of health and wealth status.	

<b>Books</b>	
	<b>Text Books:</b>
1.	“Scientific Foundations of Health” – Study Material Prepared by Dr. L Thimmesha, Published in VTU - University Website.
2.	“Scientific Foundations of Health”, (ISBN-978-81-955465-6-5) published by Infinite Learning Solutions, Bangalore – 2022.
3.	Health Psychology - A Textbook, FOURTH EDITION by Jane Ogden McGraw Hill Education (India) Private Limited - Open University Press.
	<b>Reference Books:</b>
1.	Health Psychology (Second edition) by Charles Abraham, Mark Conner, Fiona Jones and Daryl O'Connor – Published by Routledge 711 Third Avenue, New York, NY 10017.
2.	HEALTH PSYCHOLOGY (Ninth Edition) by SHELLY E. TAYLOR - University of California, Los Angeles, McGraw Hill Education (India) Private Limited - Open University Press.

Course delivery methods		Assessment methods	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

Course Outcome (COs)			
At the end of the course, the student will be able to,			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr – Create		Learning Level	PO(s)
1.	Understand and analyse about Health and wellness (and its Beliefs) and Its balance for positive mind-set.	Un	12
2.	Develop the healthy lifestyles for good health for their better future.	Un	12
3.	Build a Healthy and caring relationships to meet the requirements of good/social/positive life.	Un	12
4.	Learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future.	Re	12
5.	Prevent and fight against harmful diseases for good health through positive mind-set.	Un	12

Scheme of Continuous Internal Evaluation (CIE):			
Components	Addition of two IA tests	*Course Activity	Total
Marks	20+20 = 40	10	50
<b>Minimum score to be eligible for SEE: 25 OUT OF 50</b>			

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph/ others) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

- |    |  |
|----|--|
| 1. | It will be conducted for 50 marks of 1 hour duration.  |
| 2. | <b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b> |
| 3. | Question paper contains <b>50 questions, each of the 01 mark</b> . The pattern of the <b>question paper is MCQ</b> (Multiple Choice Questions).          |

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
1												✓
2												✓
3												✓
4												✓
5												✓

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus



## PHYSICAL EDUCATION (SPORTS, ATHLETICS) /YOGA/ NSS /CLUB ACTIVITY

<b>Course Code</b>	<b>23AEC1.1</b>	<b>Course type</b>	<b>MNC</b>	<b>Total credits</b>	<b>MNC</b>
<b>Hours/week: L - S- P</b>	0 – 0 – 2			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 00 Hrs; S = 0 Hrs; P = 30 Hrs Total = 30 Hrs			<b>SEE Marks</b>	-

### PHYSICAL EDUCATION (SPORTS, ATHLETICS)

<b>Course learning objectives</b>	
1.	To promote fitness as easy, fun and free and promote indigenous sports
<b>Contact Hours = 30 Hours</b>	
Understand the rules and regulations and to develop the fundamental skills of any of the sports such as: Fitness, Athletics, Kabaddi, Kho-Kho, Volleyball, Throw ball, Football, Hockey, Cricket, Baseball, Netball, Basketball, Handball, Badminton.	

### YOGA

<b>Course learning objectives</b>	
1.	To promote fitness through Yoga and meditation
<b>Contact Hours = 30 Hours</b>	
Introduction of the Indian knowledge system for the development of physical, mental and spiritual practices through: <ul style="list-style-type: none"> <li>• Physical exercises (Asanas)</li> <li>• Meditation</li> <li>• Pranayama</li> <li>• Holistic living</li> </ul>	

## NATIONAL SERVICE SCHEME (NSS)

Course learning objectives	
1.	To develop a sense of social & civic responsibility & utilize their knowledge in finding practical solutions to individual and community problems.

Contact Hours = 30 Hours
<p>Sensitizing the students towards society and its concerns:</p> <ul style="list-style-type: none"><li>• Understand the importance of his / her responsibilities towards society.</li><li>• Analyze the environmental and societal problems/issues and to design solutions for the same.</li><li>• Evaluate the existing system and to propose practical solutions for the same for sustainable development.</li><li>• Implement government or self-driven projects effectively in the field.</li></ul>

## CLUB ACTIVITY

Course learning objectives	
1.	To encourage creativity and awareness in allied fields.

Contact Hours = 30 Hours
<p>Develop creative abilities by taking active participation in any one of the allied fields such as:</p> <ul style="list-style-type: none"><li>• Photography Club</li><li>• Drama Club</li><li>• Music Club</li><li>• Heritage Club</li><li>• Nature Club</li><li>• Art Club</li></ul>

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr – Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	Develop overall personality equipped with multiple skills.	Un,Ap	6,12
2.	Illustrate and develop concerns towards societal and environmental aspects.	Un, Ap	6,7,12

<b>Scheme of Continuous Internal Evaluation (CIE):</b>			
Components	Activity report	Course Activity	Total
Marks	80	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>			
<ul style="list-style-type: none"> <li>➤ <b>Activities will be conducted throughout the semester as various types of events and students will be evaluated for the same.</b></li> <li>➤ <b>The content and mode of conduct of the activities is the prerogative of the course faculty to suitably attain the CO's and PO's.</b></li> </ul>			

<b>Scheme of Semester End Examination (SEE):</b>
No SEE Examination will be conducted for this subject

<b>CO-PO Mapping (Planned)</b>												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
1						✓						✓
2						✓	✓					✓

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## ELEMENTS OF SPACE MAKING AND DESIGN

<b>Course Code</b>	<b>23DES2.1</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	<b>8</b>
<b>Hours/week: L-S-P</b>	1- 7 - 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 14 Hrs; S = 98 Hrs; P = 0 Hrs  Total = 112 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	To develop an understanding of Elements of space making.
2.	To develop the solutions to spatial constructs identifying individual variables like Scale, Structure, Movement, Light, Transformation and Skin in the formation and evolution of Architectural Form.
3.	To interpret and demonstrate Space Making Elements into Architectural form.

**Pre-requisites :** Nil

<b>Unit – I: Elements of Space Making:</b>	<b>Contact Hours = 40 Hours</b>
<p>a) Understanding the Elements of space making like Floor, Wall, Roof, Openings, Staircases and Columns.</p> <p>b) Space making exercises with proper understanding of context and using variables like Light, Color, Texture and Scale with the help of models and sketches.</p>	

<b>Unit – II: Design Project</b>	<b>Contact Hours = 72 Hours</b>
<p>a) Introduction to basic terminologies and their location in an architectural space such as concept of plinth, sill level, lintel level, slab level, etc. and their relevance in Architectural design.</p> <p>b) Project shall be formulated as a process of understanding the various elements of space making like Floor, Wall, Roof, etc. and using variables like light, colour, texture and scale. Project for e.g. Kindergarten, Nursery school, Restaurant, Clinic, Primary Health Care Centre or projects of similar nature and scale. Use of Physical models in exploring design is mandatory.</p> <ul style="list-style-type: none"> <li>• Note: The Design Solution shall be explored through case study/study tour/Design Walk of the Project of appropriate scale and type.</li> <li>• The Design Solution should be explored with physical models.</li> </ul>	

Books	
	<b>Reference Books:</b>
1.	<b>Edwards Brain: Understanding Architecture through drawing, Taylor and Francis, 2008, New York.</b>
2.	<b>Pandya Yatin: Elements of Space making, Mapin Publishing, 2007, India.</b>
3.	<b>Knauer Roland: Transformation - Basic principles and methodology of design, James Gussen, 2008, Germany</b>

Course delivery methods		Assessment methods	
1.	PPT and Videos	1.	Progressive Portfolio Assessment
2.	Case Study	2.	Course Activity Assessment
3.	Site Visits	3.	Semester End Examination (TW)
4.	Discussion on drawing board		
5.	Models		

Course Outcome (COs)			
At the end of the course, the student will be able to			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create		Learning Level	PO(s)
1.	<b>Explain</b> and <b>identify</b> Elements of Space Making	<b>Un, Ap</b>	1
2.	<b>Develop</b> the ideas of spatial construct through series of Space making exercises.	<b>Ap</b>	1,2
3.	<b>Demonstrate</b> the spatial relationship in architectural form by <b>analysing</b> individual variables like Light, Movement, Transformation, Scale, Structure and skin.	<b>Un, An</b>	1,2,4
4.	<b>Apply</b> the theory to <b>develop</b> conceptual diagramming and arrive at programme formulation.	<b>Ap, Cr</b>	1,2,3,4
5.	<b>Develop</b> a design project by integrating form and function, light and ventilation and interspatial relationships.	<b>Ap, Cr</b>	1,2,3,4

Scheme of Continuous Internal Evaluation (CIE):				
Components	Portfolio Marking	Reviews	*Course Activity	Total Marks
Marks	40	40	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>				

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

Scheme of Semester End Examination (SEE):	
1.	Term Work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$ .
3.	Students have to submit the portfolio at the end of the semester for SEE.

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
1	√											
2	√	√										
3	√	√		√								
4	√	√	√	√								
5	√	√	√	√								

Name & Signature of Faculty members involved in designing the syllabus

Name & Signature of Faculty members verifying/approving the syllabus

## BUILDING CONSTRUCTION AND MATERIALS – II

<b>Course Code</b>	<b>23TEC2.1</b>	<b>Course type</b>	<b>BS &amp; AE</b>	<b>Total credits</b>	<b>5</b>
<b>Hours/week: L-S-P</b>	1 – 4 – 0			<b>CIE Marks</b>	<b>100</b>
<b>Total Contact Hours</b>	L = 14 Hrs; S = 56 Hrs; P = 0 Hrs  Total = 70 Hrs			<b>SEE Marks</b>	<b>100</b>

<b>Course learning objectives</b>	
1.	To illustrate the fundamental concepts of various Timber Roofing systems, Timber doors and Windows.
2.	To develop knowledge of various construction techniques using Timber.
3.	To develop knowledge about various forms of timber and their suitable treatments.
4.	Visits to construction yard/site to understand Timber as a material and it's methods of construction.

**Pre-requisites : Nil**

<b>Unit – I Timber Construction</b>	<b>Contact Hours = 16 Hours</b>
a) Introduction to- timber columns, lintels, beams and Roofs b) Types of timber roofs -Lean to roof, King post, Queen post, Mansard roof and Collared roof. <b>Note:</b> Field visit to study and document timber roofs	

<b>Unit – II Timber Doors</b>	<b>Contact Hours = 20 Hours</b>
a) Introduction b) Types- Batten door, Ledged door, Braced door, Paneled door, Flush door, Glazed door and Joinery details c) Special types of timber doors-pivoted, sliding and sliding folding doors <b>Note:</b> Field visit to study different types of timber doors and explore various types of carpentry joinery details.	



<b>Unit – III Timber Windows</b>	<b>Contact Hours = 20 Hours</b>
<ul style="list-style-type: none"> <li>a) Introduction</li> <li>b) Types- Glazed window, Panel Window and its joinery details.</li> <li>c) Special types of timber window: louvered and sliding folding windows</li> </ul> <p><b>Note:</b> Field visit to study different types of timber windows and explore various types of carpentry joinery details.</p>	

<b>Unit – IV Timber and Commercial Wood</b>	<b>Contact Hours = 14 Hours</b>
<ul style="list-style-type: none"> <li>a) Introduction</li> <li>b) Quality of timber, defects, Seasoning, Preservation, Natural, Hardwood and Softwood,</li> <li>c) Uses of commercial wood, plywood, hardboard, particle board, block board, veneers, laminates and MDF HDF, HDPE Woodwool.</li> <li>d) Anti-termite Treatment and pest control.</li> <li>e) Market study and sample collection of various commercial wood products, anti-termite and pest control products</li> <li>f) Types of varnishes and methods of applying varnish, French finish and Melamine finish.</li> </ul>	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Barry R, The Construction of Buildings, Volume 1, Blackwell Science, Seventh Edition 1999, Oxford, UK.
2.	Chudley R and Greeno R, Building Construction Handbook, Seventh Edition, Elsevier, 2008, Oxford, UK.
3.	Ching D. K, Building Construction Illustrated, Fourth Edition, John Wiley & Sons, 2008, New Jersey, USA
4.	Mckay W.B., Building Construction, Donhead, 2005
5.	Rangawala S. C, Engineering Materials, 43rd edition, Charotar Publishing House Pvt. Ltd, 2017, India
6.	Sushil Kumar, Building Construction, Standard Publishers Distributors,

Course delivery methods		Assessment methods	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Progressive Portfolio Assessment
3.	Field visits	3.	Course Activity Assessment
		4.	Semester End Examination (TW)

Course Outcome (COs)			
At the end of the course, the student will be able to			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create		Learning Level	PO(s)
1.	<b>Interpret</b> construction techniques involved in the various timber roofing systems, Timber doors and Windows.	<b>Un</b>	1,5
2.	<b>Develop</b> and <b>Compare</b> various construction techniques involved in the timber roof systems, doors and windows and <b>List</b> different types of carpentry joinery details	<b>Un, Ap, An</b>	1,5
3.	<b>Compare</b> and <b>explain</b> the potential of various types of wood as a building material and its <b>utilization</b> in construction industry.	<b>Un, An, Ap</b>	1

Scheme of Continuous Internal Evaluation (CIE):				
Components	Addition of two IA tests	Portfolio Marking	*Course Activity	Total Marks
Marks	30+30= 60	20	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>				

\*Note:

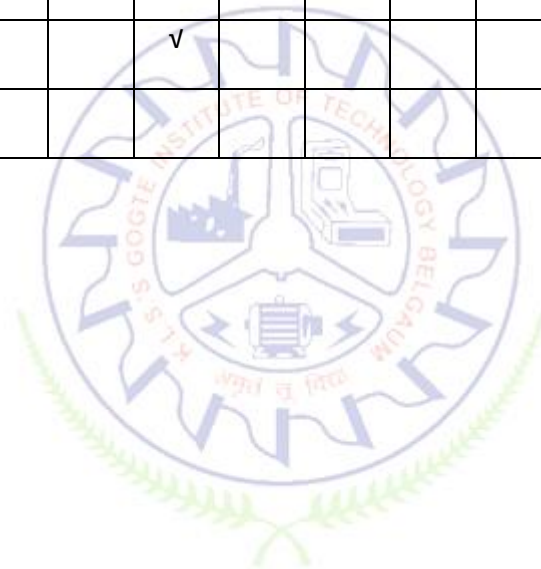
- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	Term Work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$ .
3.	Students have to submit the portfolio at the end of the semester for SEE.

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12
1	√				√							
2	√				√							
3	√											



Name & Signature of Faculty members  
involved in designing the syllabus

Name & Signature of Faculty members  
verifying/approving the syllabus

## ARCHITECTURAL GRAPHICS - II

<b>Course Code</b>	<b>23TEC2.2</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	5
<b>Hours/week: L-S-P</b>	1 – 4 – 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 14 Hrs; S = 56 Hrs; P = 0 Hrs  Total = 70Hrs			<b>SEE Marks</b>	100

### Course learning objectives

1.	To develop the ability of the students to perceive three dimensional objects and enhance the visualization skills.
2.	To illustrate the methods of graphical presentation of spatial design through three dimensional drawing techniques.

**Pre-requisites : Nil**

#### Unit – I Sections of Solids

**Contact Hours = 15 Hours**

- a) Sections of basic solids.
- b) True shapes of sections.

#### Unit – II Interpenetration of Solids

**Contact Hours = 15 Hours**

- a) Interpenetration of various solids like cube, cylinder, prism, pyramid and cone.

#### Unit – III Perspective

**Contact Hours = 20 Hours**

- a) Introduction to Perspective drawing: Brief study of history and development of perspective drawings.
- b) Terminology in Perspective drawing: Station point, Picture plane, Vanishing point, Eye level and Horizon line.
- c) One-point Perspective: Simple objects, built forms and building interiors.
- d) Two-point Perspective: Simple objects, built elements and complex built forms
- e) Approximation method of perspective drawing of buildings, human figures, street furniture, etc.

<b>Unit – IV Sciography</b>	<b>Contact Hours = 20 Hours</b>
a) Introduction b) Study of principles of shades and shadows in plan and elevation of simple built elements and complex built forms.	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Ching Francis D. K: Architectural Graphics, John Wiley and Sons Inc., New York, 1996 and onwards.
2.	Gopalkrishna K R: Engineering Graphics, Sree Offset, Bangalore, 1990 and onwards.
3.	Bhatt N. D., Engineering drawing, Charotar Publishing House, 1986 and onwards.
4.	Norling Ernest R., Perspective Made Easy, Dover Publications Inc., New York, 1999 and onwards
5.	Powell William F., Perspective, Walter Foster Publishing, Laguna Hills, CA, 1989 and onwards.
6.	Mulik Shankar, A Text Book of Perspective and Sciography, Allied Publishers Ltd., Ahmedabad, 1994 and onwards.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Progressive Portfolio Assessment
3.	Models	3.	Course Activity Assessment
		4.	Semester End Examination (TW)

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr – Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Demonstrate</b> the understanding of sections of basic solids and <b>develop</b> the true shapes of the sections.	<b>Un, Ap</b>	1,5
2.	<b>Demonstrate</b> visualization skills through exercises of interpenetration of various three dimensional objects.	<b>Un</b>	1
3.	<b>Develop</b> graphical presentation of spatial design through one point and two point perspective drawing techniques.	<b>Ap, Cr</b>	1,5
4.	<b>Apply</b> rendering and sciography techniques to make architectural presentation of built forms.	<b>Ap</b>	1,5

<b>Scheme of Continuous Internal Evaluation (CIE):</b>					
Components	Addition of two IA Tests	Portfolio marking	Quiz/Seminar/Project	*Course Activity	Total Marks
Marks	30+30=60	20	-	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>					

**\*Note:**

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	Term work will be conducted for 100 marks.
2.	<b>Minimum marks required in SEE to pass:</b> Score should be $\geq 40\%$ , however overall score of CIE+SEE should be $\geq 50\%$ .
3.	Students have to submit the portfolio at the end of the semester for SEE.

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	√				√							
2	√											
3	√				√							
4	√				√							

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus



## ANALYSIS OF DETERMINATE STRUCTURES

<b>Course Code</b>	<b>23TEC2.3</b>	<b>Course type</b>	<b>BS &amp; AE</b>	<b>Total credits</b>	<b>3</b>
<b>Hours/week: L - S- P</b>	3 – 0 – 0			<b>CIE Marks</b>	<b>100</b>
<b>Total Contact Hours</b>	L = 42 Hrs; S = 0 Hrs; P = 0 Hrs Total = 42 Hrs			<b>SEE Marks</b>	<b>100</b>

<b>Course learning objectives</b>	
1.	Define stresses, strains and elastic constants and relationship between them.
2.	Analyse statically determinate beams and plot bending and shear stresses.
3.	Evaluate the slope and deflection for beams, buckling strength of columns subjected to loads.

**Pre-requisites:** Knowledge of Engineering Mechanics

<b>Unit – I Basic Principles of Mechanics:</b>	<b>Contact Hours = 9 Hours</b>
<ul style="list-style-type: none"> <li>a) Tension, Compression, Shear, Bending, Torsion; symbols and notations, Stress/Strain relations (Hooke's Law).</li> <li>b) Types of Stresses (Compressive, Tensile, Bending, Shear) and Strain (Axial, Shear, Volumetric) with simple problems.</li> <li>c) Modulus of Elasticity, Typical Stress-Strain behavior of Steel and Concrete. Elastic constants, Rigidity Modulus, Poisson's Ratio, Bulk Modulus and Shear Modulus.</li> <li>d) Relations between Modulus of Elasticity and Modulus of Rigidity.</li> <li>e) Application to uniform sections with simple problems.</li> </ul>	

<b>Unit – II Bending Moment and Shear Force Diagrams:</b>	<b>Contact Hours = 9 Hours</b>
<ul style="list-style-type: none"> <li>a) Concept of Shear Force and Bending Moment.</li> <li>b) Relationship among Load, Shear force and Bending Moment.</li> <li>c) BMD and SFD for statically determinate Beams subjected to combinations of concentrated and uniform loadings.</li> </ul>	

<b>Unit – III Bending and Shear Stresses for Beams:</b>	<b>Contact Hours = 8 Hours</b>
a) Theory of Bending with assumptions, Flexure Formula. b) Bending Stress distribution for simple sections (symmetrical about vertical axis). Strength of a section, equation for Shear stress distribution across a section, Shear Stress distribution for simple sections. (Only diagrams for rectangle, T and I Section)	

<b>Unit – IV Columns and Struts</b>	<b>Contact Hours = 8 Hours</b>
a) Differentiation between short and long columns. b) Concept of effective length, slenderness ratio and critical load. c) Euler’s formula for different end conditions. d) Failure of Euler’s Theory, columns including built-up sections.	

<b>Unit – V Slope and Deflection</b>	<b>Contact Hours = 8 Hours</b>
Concept and application to Cantilever and Simply supported beams using Maclauy’s method with Point load and UDL for entire span.	

<b>Books</b>	
	<b>Text Books:</b>
1.	Timoshenko S. and Young, “Elements of Strength of Materials”, Affiliated East-West Press
2.	Dr.Bansal R. K., “A Textbook of Strength of Materials”, Laxmi Publications, Revised 4thEdition, 2010
3.	Basavarajaiah B. S., Mahadevappa P. “Strength of Materials in SI Units”, University Press (India) Pvt. Ltd., 3 rd Edition, 2010
	<b>Reference Books:</b>
1.	R C Hibbeler, “ Mechanics of Materials in (SI units) ” Tenth Edition   By Pearson Paperback – 1 March 2022
2.	Beer and Johnston, “Mechanics of Materials”, Tata McGraw Hill
3	James M. Gere, “Mechanics of Materials”, Thomson Learning
	<b>E-resources (NPTEL/SWAYAM, Any Other)</b>
1.	<a href="https://www.youtube.com/watch?v=GkFgysZC4Vc&amp;list=PL27C4A6AEA552F9E6">https://www.youtube.com/watch?v=GkFgysZC4Vc&amp;list=PL27C4A6AEA552F9E6</a>
2.	<a href="https://www.youtube.com/watch?v=IpMZNpWjsk4">https://www.youtube.com/watch?v=IpMZNpWjsk4</a>

Course delivery methods		Assessment methods	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

Course Outcome (COs)			
At the end of the course, the student will be able to			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create		Learning Level	PO(s)
1.	<b>Explain</b> the concepts of stress, strain and elastic constant and relationship between them.	<b>Un</b>	1,3
2.	<b>Analyse</b> statically determinate beams and <b>determine</b> bending stresses and shear stresses in beams and plot the SFD, BMD, stress-distribution diagrams, slope and deflection under various loading conditions	<b>An, Ev</b>	1,3
3.	<b>Analyse</b> the buckling strength of columns.	<b>An</b>	1,3
4.	<b>Analyse</b> the slope and deflection for beams.	<b>An</b>	1,3

#### Scheme of Continuous Internal Evaluation (CIE):

Components	Addition of two IA tests	*Course Activity	Total
Marks	40+40 = 80	20	100

**Minimum score to be eligible for SEE: 50 OUT OF 100**

#### \*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

- |    |   |
|----|---|
| 1. | It will be conducted for 100 marks of 3 hours duration.   |
| 2. | <b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b>  |
| 3. | Question paper contains three parts <b>A, B and C</b> . Students have to answer <ol style="list-style-type: none"><li>1. From Part A answer any 5 questions each Question carries 6 Marks.</li><li>2. From Part B answer any one full question from each unit and each Question carries 10 Marks.</li><li>3. From Part C answer any one full question and each Question carries 20 Marks.</li></ol> |

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
1	√		√									
2	√		√									
3	√		√									
4	√		√									

Name & Signature of Faculty members  
involved in designing the syllabus

Name & Signature of Faculty members  
verifying/approving the syllabus

## SURVEYING AND LEVELLING

<b>Course Code</b>	<b>23TEC2.4</b>	<b>Course type</b>	<b>BS &amp; AE</b>	<b>Total credits</b>	<b>3</b>
<b>Hours/week: L - S- P</b>	2 –0– 1			<b>CIE Marks</b>	<b>100</b>
<b>Total Contact Hours</b>	L = 28 Hrs; S = 0 Hrs; P =14 Hrs Total =42Hrs			<b>SEE Marks</b>	<b>100</b>

<b>Course learning objectives</b>	
1.	To develop an understanding of the principles of surveying and levelling.
2.	To provide hands-on experience in using surveying and levelling instruments.
3.	To develop the ability to use surveying and levelling techniques to solve real-world problems.
4.	To develop an understanding of the accuracy and limitations of surveying and levelling measurements.

**Pre-requisites:** Fundamentals of Physics and Mathematics

**Unit – I Introduction:**

**Contact Hours = 8 Hours**

Introduction Definition, Classification, Principles of surveying, Units of measurement, Shrunk Scale

**Unit – II Chain Surveying**

**Contact Hours = 8 Hours**

Instruments used, Types of chain, Instruments for ranging, erecting perpendiculars and Obstacles in chaining

**Unit – III Plane Table Survey and Theodolite**

**Contact Hours = 9 Hours**

- a) Introduction to Plane table- Plane table and accessories, Methods of plane table survey, Radiation, Intersection, Traversing and resection, Two point and Three point problems and their solutions.
- b) Introduction to Theodolite - Definition of different terms, Temporary adjustments, Uses, Measuring horizontal and vertical angles, Method of repetition

<b>Unit – IV Levelling</b>	<b>Contact Hours = 9 Hours</b>
Definition, Classification, Booking and reduction of levels, Errors in levelling.	

<b>Unit – V Contouring and Total Station Survey</b>	<b>Contact Hours = 8 Hours</b>
a) Characteristics of contours, Direct and indirect methods of contouring, Understanding of Contours. b) Introduction to total station survey	

<b>Books</b>	
	<b>Text Books:</b>
1.	Punmia B. C. , Surveying Volume I, Standard book House, 1980
2.	Kanetkar T. P. and Kulkarni S. V., Surveying and Leveling (Part 1), Vidhyarathi,GrihaPrakarranPuna, 1981
	<b>Reference Books:</b>
1.	B.C. Punmia, Ashok Kumar Jain, Arunkumar Jain., Surveying - Vol. 1., Laxmi Publications pvt.ltd, 2005

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Demonstrate</b> accurate surveying measurements on field, <b>selecting</b> both traditional and modern equipment.	<b>Un, Ap</b>	1,3
2.	<b>Analyse</b> the errors associated with surveying and levelling measurements to <b>solve</b> real-world engineering problems.	<b>Ap, An</b>	1,3
3.	<b>Analyse</b> and <b>interpret</b> contour maps, profile maps, and cross-sections of engineering projects.	<b>Un, An</b>	1,3

**Scheme of Continuous Internal Evaluation (CIE):**

Components	Addition of two IA Tests	*Course Activity	Total Marks
Marks	40+40=80	20	100

**Minimum score to be eligible for SEE: 50 OUT OF 100**

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

**Scheme of Semester End Examination (SEE):**

1.	It will be conducted for 100 marks of 3 hours duration.
2.	<b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b>
3.	Question paper contains three parts <b>A, B and C</b> . Students have to answer <ol style="list-style-type: none"> <li>1. From Part A answer any 5 questions each Question carries 6 Marks.</li> <li>2. From Part B answer any one full question from each unit and each Question carries 10 Marks.</li> <li>3. From Part C answer any one full question and each Question carries 20 Marks.</li> </ol>

**CO-PO Mapping (Planned)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12
1	√		√									
2	√		√									
3	√		√									

Name & Signature of Faculty members  
involved in designing the syllabusName & Signature of Faculty members  
verifying/approving the syllabus



## HISTORY OF ARCHITECTURE- II

<b>Course Code</b>	<b>23HUM2.1</b>	<b>Course type</b>	<b>PC</b>	<b>Total credits</b>	3
<b>Hours/week: L-S-P</b>	3 – 0 – 0			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 42 Hrs; S = 0 Hrs; P = 0 Hrs  Total = 42 Hrs			<b>SEE Marks</b>	100

<b>Course learning objectives</b>	
1.	To present students an overview of the History of Architecture of Greece, Roman, Early Christian, Byzantine, Romanesque and Gothic.
2.	To develop the appropriate skills of reading, discussion and writing as well as understanding of the spatial experience of buildings in order to appreciate the complexity of the influences bearing on architecture, as reflected in the major historical periods.
3.	To give comparative analysis identifying evolution in various stylistic modes, characterized by technology, ornamentation and planning practices from Classical architecture to Gothic Architecture period.

**Pre-requisites :** Nil

<b>Unit – I: Greek Architecture</b>	<b>Contact Hours = 09 Hours</b>
a) Introduction: Critical appreciation of works and synoptic study of architectural characteristic features and study of orders: Optical Corrections, Doric, Ionic and Corinthian. b) Typologies: Temples (Parthenon), Theatres (Theatre at Epidaurus), Acropolis, Agora, Stoa, Hippodrome, Palaestra.	

<b>Unit – II: Roman Architecture</b>	<b>Contact Hours = 09 Hours</b>
a) Introduction: Critical appreciation of works and synoptic study of architectural characteristic features and study of orders: Doric, Ionic, Corinthian, Composite and Tuscan. b) Typologies: Temples (Pantheon), Amphitheatre (Colosseum), Thermae (Thermae of Caracalla), Aqueduct (Pont du Garde at Nimes), Basilica (Basilica of Trajan), Triumphal Arch (Arch of Septimius Severus), Pillar of Victory (Column of Trajan), Circus (Circus Maximus).	

<b>Unit – III: Early Christian and Byzantine</b>	<b>Contact Hours = 08 Hours</b>
a) Early Christian: Evolution of Architecture as religious practice and the study of architectural characteristic features. Typology: Church (Church of St.Peter’s, Rome and St. Clemente, Rome) b) Byzantine: Study of architectural characteristic features. Typology: Church (Hagia Sophia, Constantinople).	

<b>Unit – IV: Medieval Architecture</b>	<b>Contact Hours = 08 Hours</b>
a) Introduction: Critical appreciation of works and synoptic study of architectural characteristic features. b) Typologies: Cathedral (Pisa Cathedral), Bell Tower (The Campanile, Pisa), Baptistery (Baptistery, Pisa), Angouleme Cathedral.	

<b>Unit – V: Gothic Architecture</b>	<b>Contact Hours = 08 Hours</b>
a) Introduction: Critical appreciation of works and synoptic study of architectural characteristic features. b) Typologies: Church (Notre Dame, Paris; Chartres Cathedral, Paris).	

<b>Books</b>	
	<b>Reference Books:</b>
1.	Fletcher Banister: A History of Architecture, CBS publishers & distributors, 1992, India.
2.	Stierlin Henri: Greece, Taschen, 1997, Germany.
3.	Stierlin Henri: The Roman Empire, Volume I, Taschen, 1996, Italy.
4.	Xavier Barral I Altet: The Romanesque, Taschen, 1998, Italy
5.	Binding Gunther: High Gothic: References Taschen, 1999, Italy.

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk /Lectures/PPT	1.	IA tests
2.	Documentary Videos	2.	Course Activity Assessment
3.	Historic Buildings Site Visits	3.	Semester End Examination

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Illustrate</b> the evolution of architectural history of Greece, Roman, Early Christian, Byzantine, Romanesque and Gothic style architecture.	<b>Un</b>	1, 3
2.	<b>Analyse</b> and <b>demonstrate</b> the spatial experience of architectural buildings in order to appreciate their complexity in construction technology as reflected in the major historical periods.	<b>Un, An</b>	1, 3
3.	<b>Identify</b> and <b>distinguish</b> between the various stylistic architectural modes, characterized by construction technology, ornamentation, and planning practices from classical to gothic architecture.	<b>Ap, An</b>	1, 3

<b>Scheme of Continuous Internal Evaluation (CIE):</b>			
Components	Addition of two IA Tests	*Course Activity	Total Marks
Marks	40+40=80	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>			

\*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
  - The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

<b>Scheme of Semester End Examination (SEE):</b>	
1.	It will be conducted for 100 marks of 3 hours duration.
2.	<b>Minimum marks required in SEE to pass: Score should be <math>\geq 40\%</math> however overall score of CIE + SEE should be <math>\geq 50\%</math></b>
3.	Question paper contains three parts <b>A, B and C</b> . Students have to answer <ol style="list-style-type: none"> <li>1. From Part A answer any 5 questions each Question carries 6 Marks.</li> <li>2. From Part B answer any one full question from each unit and each Question carries 10 Marks.</li> <li>3. From Part C answer any one full question and each Question carries 20 Marks.</li> </ol>

CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	√		√									
2	√		√									
3	√		√									



Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## COMMUNICATION SKILLS

<b>Course Code:</b>	<b>23HUM2.2</b>	<b>Course type</b>	<b>SEC</b>	<b>Total credits</b>	1
<b>Hours/week: L-S-P</b>	1 – 0 – 0			<b>CIE Marks</b>	50
<b>Total Contact Hours</b>	L = 15Hrs, T = 0Hrs, P = 0Hrs, Total = 15Hrs			<b>SEE Marks</b>	50

<b>Course learning objectives</b>	
1.	Enhance pronunciation and fluency for better communication skills.
2.	Augment English vocabulary and grammar for better communication skills.
3.	Impart basic language skills [ LSRW].
4.	Achieve better writing skills for employment.
5.	Understand the importance of Non-verbal communication

**Pre-requisites:** Conversant with basic English Grammar and able to understand spoken English.

<b>Unit – I Introduction to Listening Skills</b>	<b>Contact Hours = 03 Hours</b>
Introduction to Listening Comprehension, Hearing and Listening, Listening Process, Types of Listening, Barriers of Listening, Effective and Passive Listening, Reasons and Disadvantages of Poor Listening.	

<b>Unit – II Introduction to Speaking Skills</b>	<b>Contact Hours = 03 Hours</b>
Introduction to Phonetics of English Vowel and Consonant sounds, Phonetic Transcription [IPA/RP], English Syllables, Rules for Word Accent -Stress Shift, Intonation, Silent and Non-silent Letters.	

<b>Unit – III Introduction to Reading Skills</b>	<b>Contact Hours = 03 Hours</b>
Meaning and Stages, Importance of Reading, Types of Reading, Characteristics of Reading, Process of Reading, Approaches and Factors Influencing Reading, Techniques or Strategies of Reading.	

<b>Unit – IV Introduction to Writing Skills</b>	<b>Contact Hours = 03 Hours</b>
Introduction Writing Paragraphs, Parts of the paragraph, Importance of Proper Punctuation, Creating Coherence and Cohesion in Writing, Precise writing, Importance of Summarizing and Paraphrasing. Types of Writing,	

<b>Unit –V Introduction to Non- Verbal communication</b>	<b>Contact Hours = 03 Hours</b>
Introduction to Nonverbal Communication. Importance of NVC, Types of NVC-Gestures, Postures, Haptics, Proxemics, Chronemics and Paralanguage.	

<b>Books</b>	
	<b>Text Books:</b>
1.	A Textbook of English Language Communication Skills, Infinite Learning Solutions–(Revised Edition) 2021.
	<b>Reference Books:</b>
1.	Communication Skills by Sanjay Kumar and Pushp Lata, Oxford University Press - 2019.
2.	English for Engineers by N.P.Sudharshana and C.Savitha, Cambridge University Press – 2018.
	<b>E-resources (NPTEL/SWAYAM. Any Other)- mention links</b>
1.	Technical English for Engineers course Swayam/ NPTEL <a href="https://onlinecourses.nptel.ac.in/noc22_hs34/preview">https://onlinecourses.nptel.ac.in/noc22_hs34/preview</a>
2.	ESOL Courses: Listening & Grammar free online video lesson <a href="https://www.esolcourses.com/">https://www.esolcourses.com/</a>

<b>Course delivery methods</b>		<b>Assessment methods</b>	
1.	Chalk and Talk	1.	IA tests
2.	PPT and Videos	2.	Course Activity Assessment
		3.	Semester End Examination

Course Outcome (COs)			
At the end of the course, the student will be able to ,			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create		Learning Level	PO(s)
1.	<b>Find</b> the Common Errors in Writing and Speaking.	Re	10
2.	<b>Demonstrate</b> better technical writing and Presentation skills.	Un	10
3.	<b>Develop</b> technical proposals and write technical reports.	Ap	10, 12
4.	<b>Apply</b> communication skills to acquire Employment.	Ap	10, 12

#### Scheme of Continuous Internal Evaluation (CIE):

Components	Total of two I.A. tests	*Course Activity	Total Marks
Maximum Marks: 50	40	10	50

#### \*Note:

- Course Activity will be evaluated as the outcome (sketches/model/Report/Monograph) of site visits/ Workshops/ Hands-on / Analytical understanding/ Theoretical Studies/ Documentation/Study tours/Design Process/Design walk.
- The content and mode of conduct of the Course Activity is the prerogative of the course faculty to suitably attain the CO's and PO's.

#### Scheme of Semester End Examination (SEE):

1.	It will be conducted for fifty marks of one-hour duration.
2.	<b>Minimum marks required in SEE to pass:</b> The score should be $\geq 40\%$ , however an overall score of CIE + SEE should be $\geq 50\%$ .
3.	<p>a. The question paper contains questions from each unit. Students have to answer all MCQ questions from each unit.</p> <p>b. The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. MCQ Pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 50 marks of 60 minutes duration. Based on this grading will be awarded.</p>



CO-PO Mapping (Planned)												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P12
1										√		
2										√		
3										√		√
4										√		√



Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus

## SOCIAL CONNECT AND RESPONSIBILITY

<b>Course Code</b>	<b>23HUM2.3</b>	<b>Course type</b>	<b>UHV</b>	<b>Total credits</b>	<b>1</b>
<b>Hours/week: L - S- P</b>	1 – 0 –0			<b>CIE Marks</b>	<b>100</b>
<b>Total Contact Hours</b>	L=14 Hrs S=0 Hrs P=0 Hrs			<b>SEE Marks</b>	<b>-</b>

<b>Course learning objectives</b>	
1.	Bridging the gap between theory and practice through community engagement
2.	Interaction with the community for identification and solution to real life problems faced by the community
3.	Catalyzing acquisition of values and responsibilities for public service to make better citizens

**Pre-requisites:** Required Knowledge of Interpersonal skills, Communication skills

<b>Activities to be planned and conducted by the Department are:</b>	
1.	<b>Linking learning with the community through Knowledge Sharing:</b> In this the students can apply their knowledge and skills to improve the lives of the people. The knowledge available with the students can be shared to the school students of the local community. It can be in the form of engaging the classes, developing projects which can used by the students and teachers, training sessions on MS word, Excel, PPT for students and teachers etc.
2.	<b>Creating Awareness about health and hygiene:</b> The students can arrange talks on Importance of cleanliness, health, and hygiene by taking help of Doctors, Public Health Organizations, NGOs etc.
3.	<b>Including the Practitioners as teachers:</b> Arrange the invited talks by experts in agriculture for the farmers in the local community to create awareness about Organic farming, new methods of agriculture such as hydroponics, vertical farming etc.
4.	<b>Environmental Sustainability:</b> Students can take initiatives to educate the local community regarding protecting our environment through tree plantations, preserving water bodies etc.
5.	<b>Social Innovations for Rural development</b>

<b>Course Outcome (COs)</b>			
At the end of the course, the student will be able to ,			
<b>Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr - Create</b>		<b>Learning Level</b>	<b>PO(s)</b>
1.	<b>Interpret</b> the socio-cultural and environmental realities.	Un	6, 7, 12
2.	<b>Develop</b> sense of responsibility and bond with the local community.	Ap	6,12
3.	<b>Make</b> significant contributions to the local community and the Society at large.	Ap	6, 12
4	<b>Identify</b> opportunities for contribution to the socio-economic development.	Ap	6, 12

<b>Scheme of Continuous Internal Evaluation (CIE):</b>			
Components	Activity report	Course Activity	Total
Marks	80	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>			
<ul style="list-style-type: none"> <li>➤ <b>Activities will be conducted throughout the semester as various types of events and students will be evaluated for the same.</b></li> <li>➤ <b>The content and mode of conduct of the activities is the prerogative of the course faculty to suitably attain the CO's and PO's.</b></li> </ul>			

<b>Scheme of Semester End Examination (SEE):</b>
<b>No SEE Examination will be conducted for this subject</b>

<b>CO-PO Mapping (Planned)</b>												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1						√	√					√
2						√						√
3						√						√
4						√						√

Name & Signature of Faculty members involved in designing the syllabus

Name & Signature of Faculty members verifying/approving the syllabus

## PHYSICAL EDUCATION (SPORTS, ATHLETICS) /YOGA/ NSS /CLUB ACTIVITY

<b>Course Code</b>	<b>23AEC2.1</b>	<b>Course type</b>	<b>MNC</b>	<b>Total credits</b>	<b>MNC</b>
<b>Hours/week: L - S- P</b>	0 – 0 – 2			<b>CIE Marks</b>	100
<b>Total Contact Hours</b>	L = 00 Hrs; S = 0 Hrs; P = 30 Hrs Total = 30 Hrs			<b>SEE Marks</b>	-

### PHYSICAL EDUCATION (SPORTS, ATHLETICS)

<b>Course learning objectives</b>	
1.	To promote fitness as easy, fun and free and promote indigenous sports

	<b>Contact Hours = 30 Hours</b>
Understand the rules and regulations and to develop the fundamental skills of any of the sports such as: Fitness, Athletics, Kabaddi, Kho-Kho, Volleyball, Throw ball, Football, Hockey, Cricket, Baseball, Netball, Basketball, Handball, Badminton.	

### YOGA

<b>Course learning objectives</b>	
1.	To promote fitness through Yoga and meditation

	<b>Contact Hours = 30 Hours</b>
Introduction of the Indian knowledge system for the development of physical, mental and spiritual practices through:	
<ul style="list-style-type: none"> <li>• Physical exercises (Asanas)</li> <li>• Meditation</li> <li>• Pranayama</li> <li>• Holistic living</li> </ul>	

## NATIONAL SERVICE SCHEME (NSS)

Course learning objectives	
1.	To develop a sense of social & civic responsibility & utilize their knowledge in finding practical solutions to individual and community problems.

		Contact Hours = 30 Hours
Sensitizing the students towards society and its concerns:		
<ul style="list-style-type: none"> <li>• Understand the importance of his / her responsibilities towards society.</li> <li>• Analyse the environmental and societal problems/issues and to design solutions for the same.</li> <li>• Evaluate the existing system and to propose practical solutions for the same for sustainable development.</li> <li>• Implement government or self-driven projects effectively in the field.</li> </ul>		

## CLUB ACTIVITY

Course learning objectives	
1.	To encourage creativity and awareness in allied fields.

		Contact Hours = 30 Hours
Develop creative abilities by taking active participation in any one of the allied fields such as:		
<ul style="list-style-type: none"> <li>• Photography Club</li> <li>• Drama Club</li> <li>• Music Club</li> <li>• Heritage Club</li> <li>• Nature Club</li> <li>• Art Club</li> </ul>		

Course Outcome (COs)			
At the end of the course, the student will be able to,			
Learning Levels: Re - Remember; Un - Understand; Ap - Apply; An - Analysis; Ev - Evaluate; Cr – Create		Learning Level	PO(s)
1.	Develop overall personality equipped with multiple skills.	Un,Ap	6,12
2.	Illustrate and develop concerns towards societal and environmental aspects.	Un, Ap	6,7,12

<b>Scheme of Continuous Internal Evaluation (CIE):</b>			
Components	Activity report	Course Activity	Total
Marks	80	20	100
<b>Minimum score to be eligible for SEE: 50 OUT OF 100</b>			
<ul style="list-style-type: none"> <li>➤ <b>Activities will be conducted throughout the semester as various types of events and students</b> will be evaluated for the same.</li> <li>➤ The content and mode of conduct of the activities is the prerogative of the course faculty to suitably attain the CO's and PO's.</li> </ul>			

<b>Scheme of Semester End Examination (SEE):</b>
No SEE Examination will be conducted for this subject

<b>CO-PO Mapping (Planned)</b>												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
1						✓						✓
2						✓	✓					✓

Name & Signature of Faculty members  
members involved in designing the syllabus

Name & Signature of Faculty  
verifying/approving the syllabus