CMR UNIVERSITY
Private University Established in Karnataka State by Act No. 46 of 2013

1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the “POs, PSOs, PEOs” document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2BAR11

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

2. **Course Name : BUILDING CONSTRUCTION AND MATERIALS I**
   Course Code: 2BAR12

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping

CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

3. Course Name : GRAPHICS I
Course Code: 2BAR13

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

4. Course Name : EARLY CIVILISATIONS – ART, CULTURE AND ARCHITECTURE
Course Code: 2BAR14

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*

CO3	*							*	*	*	*

5. Course Name : STRUCTURES I
Course Code: 2BAR15

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

6. Course Name : BASIC DESIGN I
Course Code: 2BAR16

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

7. Course Name : VISUAL ARTS
Course Code: 2BAR17

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

8. Course Name : FOUNDATION WORKSHOP I
Course Code: 2BAR18

1. *Hands on exploration of forms with materials and tools.*
2. *The ability to conceive three dimensional forms and to spaces and to make models.*
3. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*

9. Course Name : MID SEMESTER WORKSHOP I
Course Code: 2BAR19

1. *Hands on skills in specialized areas related to architecture.*
2. *The ability to conceive three dimensional forms and to spaces and to make models.*
3. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*

SECOND SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN II
Course Code: 2BAR21

1. *Ability to integrate aesthetically pleasing forms and spaces with simple functions.*
2. *The ability to conceive three dimensional forms and to spaces and to make models.*
3. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*

2. Course Name : BUILDING CONSTRUCTION AND MATERIALS II
Course Code: 2BAR22

1. *Understanding of Timber Construction in Roofs, Doors and Windows.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*

CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*
CO5	*		*	*				*			*

3. Course Name : GRAPHICS II
Course Code: 2BAR23

1. *Ability to understand and draw two and three dimensional views of objects.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*
CO5	*		*	*				*			*

4. Course Name : HISTORY OF ARCHITECTURE I
Course Code: 2BAR24

1. *Appreciate the aesthetics, construction and ornamentation of Classical and Medieval Architecture.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*		*	*
CO5	*		*	*				*		*	*

5. Course Name : STRUCTURES II

Course Code: 2BAR25

1. *Understanding of the basic concepts of mechanics.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*		*	*
CO5	*		*	*				*		*	*

6. Course Name : BASIC DESIGN II

Course Code: 2BAR26

1. *Grasp of aesthetics in two dimension and three dimension.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*

7. Course Name : ART APPRECIATION
Course Code: 2BAR27

1. *The ability to think in visual terms and to obtain command over the visual medium.*
2. *Grasp of aesthetics in two dimension and three dimension.*
3. *Hands on exploration of forms with materials and tools.*
4. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO3	*							*	*	*	*

8. Course Name : SURVEYING AND LEVELLING
Course Code: 2BAR28

1. *The ability to understand levels of the site and to make contour maps.*
2. *Grasp of aesthetics in two dimension and three dimension.*
3. *Hands on exploration of forms with materials and tools.*
4. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

9. Course Name : MID SEMESTER WORKSHOP II
Course Code: 2BAR29

1. *Hands on skills in specialized areas related to architecture.*
2. *Grasp of aesthetics in two dimension and three dimension.*
3. *Hands on exploration of forms with materials and tools.*
4. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

THIRD SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN III
Course Code: 2BAR31

1. *The student will be able to design in response to the context of the site and culture.*
2. *Hands on skills in specialized areas related to architecture.*
3. *Grasp of aesthetics in two dimension and three dimension.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS III
Course Code: 2BAR32

1. The student will be able to understand construction practices of RCC elements.
2. *The student will be able to design in response to the context of the site and culture.*
3. *Hands on skills in specialized areas related to architecture.*
4. *Grasp of aesthetics in two dimension and three dimension.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

3. Course Name : FOUNDATION WORKSHOP II

Course Code: 2BAR33

1. *The student will be able to make a simple product emphasizing the joints mentioned above.*
2. The student will be able to understand construction practices of RCC elements.
3. *The student will be able to design in response to the context of the site and culture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*

4. Course Name : HISTORY OF ARCHITECTURE II
Course Code: 2BAR34

1. *The student will be able to obtain Knowledge acquisition with respect to Hindu Architecture in India and its design concepts.*
2. *The student will be able to make a simple product emphasizing the joints mentioned above.*
3. The student will be able to understand construction practices of RCC elements.
4. *The student will be able to design in response to the context of the site and culture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

5. Course Name : STRUCTURES III

Course Code: 2BAR35

1. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*
2. *The student will be able to make a simple product emphasizing the joints mentioned above.*
3. The student will be able to understand construction practices of RCC elements.
4. *The student will be able to design in response to the context of the site and culture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

6. Course Name : THEORY OF ARCHITECTURE I

Course Code: 2BAR36

1. *The student will be able to grasp the ideas and theories influencing architectural design*
2. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*
3. *The student will be able to make a simple product emphasizing the joints mentioned above.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*

7. Course Name : COMPUTER APPLICATIONS I

Course Code: 2BAR37

1. *The student will be able to make drawings in 2D and 3D using Rhino.*
2. *The student will be able to grasp the ideas and theories influencing architectural design*
3. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*		
CO3	*			*	*			*			*

8. Course Name : CLIMATOLOGY
Course Code: 2BAR38

1. *The student will be able to get the ability to understand the implication of Climate on design*
2. *The student will be able to grasp the ideas and theories influencing architectural design*
3. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*		
CO3	*			*	*			*			*

9. Course Name : MID SEMESTER WORKSHOP III

Course Code: 2BAR39

1. *Hands on skills in specialized areas related to architecture.*
2. *The student will be able to get the ability to understand the implication of Climate on design*
3. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*		
CO3	*			*	*			*			*

FOURTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN IV
Course Code: 2BAR41

1. *The student will be able to learn skills of designing housing communities.*
2. *Hands on skills in specialized areas related to architecture.*
3. *The student will be able to get the ability to understand the implication of Climate on design*
4. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS IV
Course Code: 2BAR42

1. *Understanding of construction practices related to RCC floors, roofs and finishes*
2. *The student will be able to get the ability to understand the implication of Climate on design*
3. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

3. Course Name : BUILDING SERVICES I (WATER SUPPLY AND SANITATION)

Course Code: 2BAR43

1. *The student will be able to understand and incorporate water supply and sanitary service into building designs*
2. *Understanding of construction practices related to RCC floors, roofs and finishes*
3. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

4. **Course Name : HISTORY OF ARCHITECTURE III**
   Course Code: 2BAR44

1. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*
2. *The student will be able to understand and incorporate water supply and sanitary service into building designs*
3. *Understanding of construction practices related to RCC floors, roofs and finishes*
4. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

5. **Course Name : STRUCTURES IV**
   Course Code: 2BAR45

1. *The student will be able to obtain understanding of structural behaviour of beams and portal frames*
2. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*
3. *The student will be able to understand and incorporate water supply and sanitary service into building designs*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

6. Course Name : THEORY OF ARCHITECTURE II
Course Code: 2BAR46

1. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*
2. *The student will be able to obtain understanding of structural behaviour of beams and portal frames*
3. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

7. Course Name : COMPUTER APPLICATIONS II
Course Code: 2BAR47

1. *The student will be able to acquire skills of using digital tools in architecture*
2. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*
3. *The student will be able to obtain understanding of structural behaviour of beams and portal frames*
4. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

8. Course Name : ELECTIVE I (Architectural Representation and Rendering)
Course Code: 2BAR421

1. *The student will be able to acquire skills of rendering and presentation.*
2. *The student will be able to acquire skills of using digital tools in architecture*
3. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

9. Course Name : ELECTIVE I (Architectural Writing)
Course Code: 2BAR421

1. *The student will be able to write effectively on Architecture*
2. *The student will be able to acquire skills of rendering and presentation.*
3. *The student will be able to acquire skills of using digital tools in architecture*
4. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

10. Course Name : ELECTIVE I (Architectural Story -Telling and Branding)
Course Code: 2BAR421

1. *The student will be able to communicate architectural projects effectively*
2. *The student will be able to write effectively on Architecture*
3. *The student will be able to acquire skills of rendering and presentation.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

11. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2BAR49

1. *Hands on skills in specialized areas related to architecture.*

2. *The student will be able to communicate architectural projects effectively*
3. *The student will be able to write effectively on Architecture*
4. *The student will be able to acquire skills of rendering and presentation*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

FIFTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN V
Course Code: 2BAR51

1. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
2. *Hands on skills in specialized areas related to architecture.*
3. *The student will be able to communicate architectural projects effectively*
4. *The student will be able to write effectively on Architecture*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS - V
Course Code: 2BAR52

1. *Understanding the construction techniques of large span structures.*
2. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
3. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

3. Course Name : BUILDING SERVICES II (Electricity & Illumination)

Course Code: 2BAR53

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

4. **Course Name : HISTORY OF ARCHITECTURE IV**

Course Code: 2BAR54

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

5. **Course Name : STRUCTURES V**

Course Code: 2BAR55

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

6. Course Name : SOCIOLOGY & ECONOMICS
Course Code: 2BAR56

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*			*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*	*	*	*

7. Course Name : FOUNDATION WORKSHOP III
Course Code: 2BAR57

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

8. Course Name : ELECTIVE II
Course Code: 2BAR522

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

9. Course Name : MID SEMESTER WORKSHOP V
Course Code: 2BAR59

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*

2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

SIXTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN VI
Course Code: 2BAR61

1. *The student will be able to navigate the designing of institutional buildings*
2. *The student will be able to integrate electrical services and lighting into Architectural Design.*
3. *Understanding the construction techniques of large span structures.*
4. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
5. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS VI
Course Code: 2BAR62

1. *Understanding of construction and details of Special Doors, Windows & Finishes.*
2. *The student will be able to navigate the designing of institutional buildings*
3. *The student will be able to integrate electrical services and lighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*

3. Course Name : BUILDING SERVICES III (VENTILATION, AC, LIFTS & FIRE)
Course Code: 2BAR63

1. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*
2. *Understanding of construction and details of Special Doors, Windows & Finishes.*
3. *The student will be able to navigate the designing of institutional buildings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

4. Course Name :CONTEMPORARY ARCHITECTURE
Course Code: 2BAR64

1. *The student will be able to: familiarize with contemporary trends in architecture*
2. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*
3. *Understanding of construction and details of Special Doors, Windows & Finishes.*
4. *The student will be able to navigate the designing of institutional buildings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

5. Course Name : STRUCTURES VI

Course Code: 2BAR65

1. *The student will be able to acquire the skills of designing simple steel structures.*
2. *The student will be able to: familiarize with contemporary trends in architecture*
3. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

6. Course Name : ESTIMATING AND COSTING

Course Code: 2BAR66

1. *The student will be able to: Make the estimation and write the specification for simple buildings.*
2. *The student will be able to acquire the skills of designing simple steel structures.*
3. *The student will be able to: familiarize with contemporary trends in architecture*
4. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

7. Course Name : WORKING DRAWING

Course Code: 2BAR67

1. *The student will be able to make working drawings for simple buildings*
2. *The student will be able to: Make the estimation and write the specification for simple buildings.*
3. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

8. Course Name : ELECTIVE III
Course Code: 2BAR623

1. *The student will be able to acquire specialised skills in upcoming areas of architecture.*
2. *The student will be able to make working drawings for simple buildings*
3. *The student will be able to: Make the estimation and write the specification for simple buildings.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

9. Course Name : MID SEMESTER WORKSHOP VI

Course Code: 2BAR69

1. *Hands on skills in specialized areas related to architecture.*
2. *The student will be able to acquire specialised skills in upcoming areas of architecture.*
3. *The student will be able to make working drawings for simple buildings*
4. *The student will be able to: Make the estimation and write the specification for simple buildings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

10. Course Name : STUDY TOUR

Course Code: 2BAR610

1. *Consolidating various course contents through exposure to good architecture.*
2. *Hands on skills in specialized areas related to architecture.*
3. *The student will be able to acquire specialised skills in upcoming areas of architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

SEVENTH SEMESTER SYLLABUS

1. Course Name : PROFESSIONAL TRAINING

Course Code: 2BAR71

1. *Ability to integrate practical concerns into academic projects in the later semesters.*
2. *Consolidating various course contents through exposure to good architecture.*
3. *Hands on skills in specialized areas related to architecture.*
4. *The student will be able to acquire specialised skills in upcoming areas of architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

EIGHTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN VII
Course Code: 2BAR81

1. *The skill of relating a building design to the urban context to which it belongs.*
2. *Ability to integrate practical concerns into academic projects in the later semesters.*
3. *Consolidating various course contents through exposure to good architecture.*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS VII
Course Code: 2BAR82

1. *Construction techniques of components of Interiors of residential and commercial spaces.*
2. *The skill of relating a building design to the urban context to which it belongs.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

3. Course Name : BUILDING SERVICES IV

Course Code: 2BAR83

1. *Acoustic design of auditorium*
2. *Construction techniques of components of Interiors of residential and commercial spaces.*
3. *The skill of relating a building design to the urban context to which it belongs.*
4. *Ability to integrate practical concerns into academic projects in the later semesters*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

4. **Course Name : PHYSICAL PLANNING**

Course Code: 2BAR84

1. *Introductory knowledge of urban and regional planning and the larger context for architecture*
2. *Construction techniques of components of Interiors of residential and commercial spaces.*
3. *The skill of relating a building design to the urban context to which it belongs.*
4. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

5. **Course Name : STRUCTURES VII**

Course Code: 2BAR85

1. *Structural design of RCC components of buildings*
2. *Introductory knowledge of urban and regional planning and the larger context for architecture*
3. *Construction techniques of components of Interiors of residential and commercial spaces.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

6. Course Name : PROFESSIONAL PRACTICE I
Course Code: 2BAR86

1. Grasping of professional responsibilities and liabilities.
2. *Structural design of RCC components of buildings*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

7. Course Name : INTERIOR DESIGN
Course Code: 2BAR87

1. *Ability to provide a scheme for interior design of simple projects.*
2. Grasping of professional responsibilities and liabilities.
3. *Structural design of RCC components of buildings*
4. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

8. Course Name : ELECTIVE IV
Course Code: 2BAR824

1. *Acquisition of specialised skills in upcoming areas of architecture*
2. *Ability to provide a scheme for interior design of simple projects.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

9. Course Name : EMID SEMESTER WORKSHOP VII

Course Code: 2BAR89

1. *Hands on skills in specialized areas related to architecture.*
2. *Acquisition of specialised skills in upcoming areas of architecture*
3. *Ability to provide a scheme for interior design of simple projects.*
4. *Ability to integrate practical concerns into academic projects in the later semesters*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*
CO4	*	*	*				*	*	*	*	*

NINTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN VIII
Course Code: 2BAR91

1. *Skills and ability to tackle the integration of structure and services into Architectural design.*
2. *Hands on skills in specialized areas related to architecture.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

2. Course Name : BUILDING CONSTRUCTION AND MATERIALS VII
Course Code: 2BAR92

1. *Ability to roof large span structures*
2. *Skills and ability to tackle the integration of structure and services into Architectural design.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

3. Course Name :CONSTRUCTION MANAGEMENT

Course Code: 2BAR93

1. *Knowledge and skills related to Management of Construction projects.*
2. *Ability to roof large span structures*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

4. Course Name : DISSERTATION

Course Code: 2BAR94

1. *Skills related to the conduction of rudimentary research in architecture*
2. *Skills related to the writing of a research report*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

5. Course Name : DISASTER RESISTANT STRUCTURES

Course Code: 2BAR95

1. *Knowledge and skills with respect to earthquake resistance in buildings.*
2. *Knowledge and skills related to Management of Construction projects.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

6. Course Name : PROFESSIONAL PRACTICE II

Course Code: 2BAR96

1. *Knowledge of various dimensions of professional practice.*
2. *Knowledge and skills with respect to earthquake resistance in buildings.*
3. *Knowledge and skills related to Management of Construction projects.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

7. Course Name : LANDSCAPE ARCHITECTURE
Course Code: 2BAR97

1. *The knowledge and skills related to landscape design.*
2. *Knowledge of various dimensions of professional practice.*

Knowledge and skills related to Management of Construction projects

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

8. Course Name : ELECTIVE IV
Course Code: 2BAR824

1. *Acquisition of specialised skills in upcoming areas of architecture*
2. *The knowledge and skills related to landscape design.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

9. Course Name : MID SEMESTER WORKSHOP VIII

Course Code: 2BAR824

1. *Hands on skills in specialized areas related to architecture.*
2. *Acquisition of specialised skills in upcoming areas of architecture*
3. *The knowledge and skills related to landscape design.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

NINTH SEMESTER SYLLABUS

10. Course Name : ARCHITECTURAL DESIGN PROJECT (THESIS

Course Code: 2BAR101

1. *Ability to design a building in a comprehensive manner similar to what happens in architectural practice.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the performance of site zoning- to locate the different components of the building on the most suitable parts of the site*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*
5. *To provide understanding and appreciation of various structural concepts and systems and ability to incorporate them into a given design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*
CO4	*	*			*	*					*
CO5	*	*			*	*	*	*	*		*

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1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the “POs, PSOs, PEOs” document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2BAR11

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*
CO4	*	*			*	*					*
CO5	*	*			*	*	*	*	*		*

2. **Course Name : BUILDING CONSTRUCTION AND MATERIALS I**
   Course Code: 2BAR12

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

3. Course Name : GRAPHICS I
Course Code: 2BAR13

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

4. Course Name : EARLY CIVILISATIONS – ART, CULTURE AND ARCHITECTURE
Course Code: 2BAR14

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*

CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

5. Course Name : STRUCTURES I

Course Code: 2BAR15

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

6. Course Name : BASIC DESIGN I

Course Code: 2BAR16

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

7. Course Name : VISUAL ARTS

Course Code: 2BAR17

1. *The ability to conceive three dimensional forms and to spaces and to make models.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*

8. Course Name : FOUNDATION WORKSHOP I

Course Code: 2BAR18

1. *Hands on exploration of forms with materials and tools.*
2. *The ability to conceive three dimensional forms and to spaces and to make models.*
3. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*

9. Course Name : MID SEMESTER WORKSHOP I

Course Code: 2BAR19

1. *Hands on skills in specialized areas related to architecture.*
2. *The ability to conceive three dimensional forms and to spaces and to make models.*
3. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*

SECOND SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN II
Course Code: 2BAR21

1. *Ability to integrate aesthetically pleasing forms and spaces with simple functions.*
2. *The ability to conceive three dimensional forms and to spaces and to make models.*
3. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*

2. Course Name : BUILDING CONSTRUCTION AND MATERIALS II
Course Code: 2BAR22

1. *Understanding of Timber Construction in Roofs, Doors and Windows.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*

CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*
CO5	*		*	*				*			*

3. Course Name : GRAPHICS II
Course Code: 2BAR23

1. *Ability to understand and draw two and three dimensional views of objects.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*			*
CO5	*		*	*				*			*

4. Course Name : HISTORY OF ARCHITECTURE I
Course Code: 2BAR24

1. *Appreciate the aesthetics, construction and ornamentation of Classical and Medieval Architecture.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*		*	*
CO5	*		*	*				*		*	*

5. Course Name : STRUCTURES II

Course Code: 2BAR25

1. *Understanding of the basic concepts of mechanics.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*
4. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
5. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*
CO4	*		*	*				*		*	*
CO5	*		*	*				*		*	*

6. Course Name : BASIC DESIGN II

Course Code: 2BAR26

1. *Grasp of aesthetics in two dimension and three dimension.*
2. *Hands on exploration of forms with materials and tools.*
3. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*			*

7. Course Name : ART APPRECIATION
Course Code: 2BAR27

1. *The ability to think in visual terms and to obtain command over the visual medium.*
2. *Grasp of aesthetics in two dimension and three dimension.*
3. *Hands on exploration of forms with materials and tools.*
4. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO3	*							*	*	*	*

8. Course Name : SURVEYING AND LEVELLING
Course Code: 2BAR28

1. *The ability to understand levels of the site and to make contour maps.*
2. *Grasp of aesthetics in two dimension and three dimension.*
3. *Hands on exploration of forms with materials and tools.*
4. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

9. Course Name : MID SEMESTER WORKSHOP II
Course Code: 2BAR29

1. *Hands on skills in specialized areas related to architecture.*
2. *Grasp of aesthetics in two dimension and three dimension.*
3. *Hands on exploration of forms with materials and tools.*
4. *The ability to conceive three dimensional forms and to spaces and to make models.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

THIRD SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN III
Course Code: 2BAR31

1. *The student will be able to design in response to the context of the site and culture.*
2. *Hands on skills in specialized areas related to architecture.*
3. *Grasp of aesthetics in two dimension and three dimension.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS III
Course Code: 2BAR32

1. The student will be able to understand construction practices of RCC elements.
2. *The student will be able to design in response to the context of the site and culture.*
3. *Hands on skills in specialized areas related to architecture.*
4. *Grasp of aesthetics in two dimension and three dimension.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

3. Course Name : FOUNDATION WORKSHOP II

Course Code: 2BAR33

1. *The student will be able to make a simple product emphasizing the joints mentioned above.*
2. The student will be able to understand construction practices of RCC elements.
3. *The student will be able to design in response to the context of the site and culture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*

4. Course Name : HISTORY OF ARCHITECTURE II
Course Code: 2BAR34

1. *The student will be able to obtain Knowledge acquisition with respect to Hindu Architecture in India and its design concepts.*
2. *The student will be able to make a simple product emphasizing the joints mentioned above.*
3. The student will be able to understand construction practices of RCC elements.
4. *The student will be able to design in response to the context of the site and culture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

5. Course Name : STRUCTURES III

Course Code: 2BAR35

1. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*
2. *The student will be able to make a simple product emphasizing the joints mentioned above.*
3. The student will be able to understand construction practices of RCC elements.
4. *The student will be able to design in response to the context of the site and culture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*
CO4	*							*	*	*	*

6. Course Name : THEORY OF ARCHITECTURE I

Course Code: 2BAR36

1. *The student will be able to grasp the ideas and theories influencing architectural design*
2. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*
3. *The student will be able to make a simple product emphasizing the joints mentioned above.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*			*	*			*			*

7. Course Name : COMPUTER APPLICATIONS I

Course Code: 2BAR37

1. *The student will be able to make drawings in 2D and 3D using Rhino.*
2. *The student will be able to grasp the ideas and theories influencing architectural design*
3. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*		
CO3	*			*	*			*			*

8. Course Name : CLIMATOLOGY
Course Code: 2BAR38

1. *The student will be able to get the ability to understand the implication of Climate on design*
2. *The student will be able to grasp the ideas and theories influencing architectural design*
3. *The student will be able to acquire Knowledge and skills related to understanding of structural behaviour of columns & beams*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*		
CO3	*			*	*			*			*

9. Course Name : MID SEMESTER WORKSHOP III

Course Code: 2BAR39

1. *Hands on skills in specialized areas related to architecture.*
2. *The student will be able to get the ability to understand the implication of Climate on design*
3. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*		
CO3	*			*	*			*			*

FOURTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN IV
Course Code: 2BAR41

1. *The student will be able to learn skills of designing housing communities.*
2. *Hands on skills in specialized areas related to architecture.*
3. *The student will be able to get the ability to understand the implication of Climate on design*
4. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS IV
Course Code: 2BAR42

1. *Understanding of construction practices related to RCC floors, roofs and finishes*
2. *The student will be able to get the ability to understand the implication of Climate on design*
3. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

3. Course Name : BUILDING SERVICES I (WATER SUPPLY AND SANITATION)

Course Code: 2BAR43

1. *The student will be able to understand and incorporate water supply and sanitary service into building designs*
2. *Understanding of construction practices related to RCC floors, roofs and finishes*
3. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

4. **Course Name : HISTORY OF ARCHITECTURE III**
   Course Code: 2BAR44

1. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*
2. *The student will be able to understand and incorporate water supply and sanitary service into building designs*
3. *Understanding of construction practices related to RCC floors, roofs and finishes*
4. *The student will be able to grasp the ideas and theories influencing architectural design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

5. **Course Name : STRUCTURES IV**
   Course Code: 2BAR45

1. *The student will be able to obtain understanding of structural behaviour of beams and portal frames*
2. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*
3. *The student will be able to understand and incorporate water supply and sanitary service into building designs*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

6. Course Name : THEORY OF ARCHITECTURE II
Course Code: 2BAR46

1. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*
2. *The student will be able to obtain understanding of structural behaviour of beams and portal frames*
3. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

7. Course Name : COMPUTER APPLICATIONS II
Course Code: 2BAR47

1. *The student will be able to acquire skills of using digital tools in architecture*
2. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*
3. *The student will be able to obtain understanding of structural behaviour of beams and portal frames*
4. *Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

8. Course Name : ELECTIVE I (Architectural Representation and Rendering)
Course Code: 2BAR421

1. *The student will be able to acquire skills of rendering and presentation.*
2. *The student will be able to acquire skills of using digital tools in architecture*
3. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

9. Course Name : ELECTIVE I (Architectural Writing)
Course Code: 2BAR421

1. *The student will be able to write effectively on Architecture*
2. *The student will be able to acquire skills of rendering and presentation.*
3. *The student will be able to acquire skills of using digital tools in architecture*
4. *The student will be able to grasp ideas and theories of architectural theoreticians and their influence on Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

10. Course Name : ELECTIVE I (Architectural Story -Telling and Branding)
Course Code: 2BAR421

1. *The student will be able to communicate architectural projects effectively*
2. *The student will be able to write effectively on Architecture*
3. *The student will be able to acquire skills of rendering and presentation.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

11. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2BAR49

1. *Hands on skills in specialized areas related to architecture.*

2. *The student will be able to communicate architectural projects effectively*
3. *The student will be able to write effectively on Architecture*
4. *The student will be able to acquire skills of rendering and presentation*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

FIFTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN V
Course Code: 2BAR51

1. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
2. *Hands on skills in specialized areas related to architecture.*
3. *The student will be able to communicate architectural projects effectively*
4. *The student will be able to write effectively on Architecture*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS - V
Course Code: 2BAR52

1. *Understanding the construction techniques of large span structures.*
2. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
3. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*

3. Course Name : BUILDING SERVICES II (Electricity & Illumination)

Course Code: 2BAR53

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

4. **Course Name : HISTORY OF ARCHITECTURE IV**

Course Code: 2BAR54

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

5. **Course Name : STRUCTURES V**

Course Code: 2BAR55

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*							*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*			*

6. Course Name : SOCIOLOGY & ECONOMICS
Course Code: 2BAR56

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*			*	*	*	
CO3	*			*	*			*			*
CO4	*		*	*	*			*	*	*	*

7. Course Name : FOUNDATION WORKSHOP III
Course Code: 2BAR57

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

8. Course Name : ELECTIVE II
Course Code: 2BAR522

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*
2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

9. Course Name : MID SEMESTER WORKSHOP V
Course Code: 2BAR59

1. *The student will be able to integrate electrical services and lighting into Architectural Design.*

2. *Understanding the construction techniques of large span structures.*
3. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

SIXTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN VI
Course Code: 2BAR61

1. *The student will be able to navigate the designing of institutional buildings*
2. *The student will be able to integrate electrical services and lighting into Architectural Design.*
3. *Understanding the construction techniques of large span structures.*
4. *The student will be able to learn the skills to integrate technology and symbolism with architecture*
5. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*
CO4	*		*	*	*			*	*	*	*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS VI
Course Code: 2BAR62

1. *Understanding of construction and details of Special Doors, Windows & Finishes.*
2. *The student will be able to navigate the designing of institutional buildings*
3. *The student will be able to integrate electrical services and lighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*										*

3. Course Name : BUILDING SERVICES III (VENTILATION, AC, LIFTS & FIRE)
Course Code: 2BAR63

1. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*
2. *Understanding of construction and details of Special Doors, Windows & Finishes.*
3. *The student will be able to navigate the designing of institutional buildings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

4. Course Name :CONTEMPORARY ARCHITECTURE
Course Code: 2BAR64

1. *The student will be able to: familiarize with contemporary trends in architecture*
2. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*
3. *Understanding of construction and details of Special Doors, Windows & Finishes.*
4. *The student will be able to navigate the designing of institutional buildings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

5. Course Name : STRUCTURES VI

Course Code: 2BAR65

1. *The student will be able to acquire the skills of designing simple steel structures.*
2. *The student will be able to: familiarize with contemporary trends in architecture*
3. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

6. Course Name : ESTIMATING AND COSTING

Course Code: 2BAR66

1. *The student will be able to: Make the estimation and write the specification for simple buildings.*
2. *The student will be able to acquire the skills of designing simple steel structures.*
3. *The student will be able to: familiarize with contemporary trends in architecture*
4. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

7. Course Name : WORKING DRAWING

Course Code: 2BAR67

1. *The student will be able to make working drawings for simple buildings*
2. *The student will be able to: Make the estimation and write the specification for simple buildings.*
3. *The student will be able to integrate the services of Ventilation, AC, Lifts and Firefighting into Architectural Design.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

8. Course Name : ELECTIVE III
Course Code: 2BAR623

1. *The student will be able to acquire specialised skills in upcoming areas of architecture.*
2. *The student will be able to make working drawings for simple buildings*
3. *The student will be able to: Make the estimation and write the specification for simple buildings.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

9. Course Name : MID SEMESTER WORKSHOP VI

Course Code: 2BAR69

1. *Hands on skills in specialized areas related to architecture.*
2. *The student will be able to acquire specialised skills in upcoming areas of architecture.*
3. *The student will be able to make working drawings for simple buildings*
4. *The student will be able to: Make the estimation and write the specification for simple buildings*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

10. Course Name : STUDY TOUR

Course Code: 2BAR610

1. *Consolidating various course contents through exposure to good architecture.*
2. *Hands on skills in specialized areas related to architecture.*
3. *The student will be able to acquire specialised skills in upcoming areas of architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

SEVENTH SEMESTER SYLLABUS

1. Course Name : PROFESSIONAL TRAINING

Course Code: 2BAR71

1. *Ability to integrate practical concerns into academic projects in the later semesters.*
2. *Consolidating various course contents through exposure to good architecture.*
3. *Hands on skills in specialized areas related to architecture.*
4. *The student will be able to acquire specialised skills in upcoming areas of architecture.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

EIGHTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN VII
Course Code: 2BAR81

1. *The skill of relating a building design to the urban context to which it belongs.*
2. *Ability to integrate practical concerns into academic projects in the later semesters.*
3. *Consolidating various course contents through exposure to good architecture.*
4. *Hands on skills in specialized areas related to architecture.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS VII
Course Code: 2BAR82

1. *Construction techniques of components of Interiors of residential and commercial spaces.*
2. *The skill of relating a building design to the urban context to which it belongs.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

3. Course Name : BUILDING SERVICES IV

Course Code: 2BAR83

1. *Acoustic design of auditorium*
2. *Construction techniques of components of Interiors of residential and commercial spaces.*
3. *The skill of relating a building design to the urban context to which it belongs.*
4. *Ability to integrate practical concerns into academic projects in the later semesters*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

4. **Course Name : PHYSICAL PLANNING**

Course Code: 2BAR84

1. *Introductory knowledge of urban and regional planning and the larger context for architecture*
2. *Construction techniques of components of Interiors of residential and commercial spaces.*
3. *The skill of relating a building design to the urban context to which it belongs.*
4. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

5. **Course Name : STRUCTURES VII**

Course Code: 2BAR85

1. *Structural design of RCC components of buildings*
2. *Introductory knowledge of urban and regional planning and the larger context for architecture*
3. *Construction techniques of components of Interiors of residential and commercial spaces.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

6. Course Name : PROFESSIONAL PRACTICE I
Course Code: 2BAR86

1. Grasping of professional responsibilities and liabilities.
2. *Structural design of RCC components of buildings*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

7. Course Name : INTERIOR DESIGN
Course Code: 2BAR87

1. *Ability to provide a scheme for interior design of simple projects.*
2. Grasping of professional responsibilities and liabilities.
3. *Structural design of RCC components of buildings*
4. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

8. Course Name : ELECTIVE IV
Course Code: 2BAR824

1. *Acquisition of specialised skills in upcoming areas of architecture*
2. *Ability to provide a scheme for interior design of simple projects.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

9. Course Name : EMID SEMESTER WORKSHOP VII

Course Code: 2BAR89

1. *Hands on skills in specialized areas related to architecture.*
2. *Acquisition of specialised skills in upcoming areas of architecture*
3. *Ability to provide a scheme for interior design of simple projects.*
4. *Ability to integrate practical concerns into academic projects in the later semesters*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*
CO4	*	*	*				*	*	*	*	*

NINTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN VIII
Course Code: 2BAR91

1. *Skills and ability to tackle the integration of structure and services into Architectural design.*
2. *Hands on skills in specialized areas related to architecture.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

2. Course Name : BUILDING CONSTRUCTION AND MATERIALS VII
Course Code: 2BAR92

1. *Ability to roof large span structures*
2. *Skills and ability to tackle the integration of structure and services into Architectural design.*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

3. Course Name :CONSTRUCTION MANAGEMENT

Course Code: 2BAR93

1. *Knowledge and skills related to Management of Construction projects.*
2. *Ability to roof large span structures*
3. *Ability to integrate practical concerns into academic projects in the later semesters.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

4. Course Name : DISSERTATION

Course Code: 2BAR94

1. *Skills related to the conduction of rudimentary research in architecture*
2. *Skills related to the writing of a research report*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

5. Course Name : DISASTER RESISTANT STRUCTURES

Course Code: 2BAR95

1. *Knowledge and skills with respect to earthquake resistance in buildings.*
2. *Knowledge and skills related to Management of Construction projects.*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

6. Course Name : PROFESSIONAL PRACTICE II

Course Code: 2BAR96

1. *Knowledge of various dimensions of professional practice.*
2. *Knowledge and skills with respect to earthquake resistance in buildings.*
3. *Knowledge and skills related to Management of Construction projects.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

7. Course Name : LANDSCAPE ARCHITECTURE
Course Code: 2BAR97

1. *The knowledge and skills related to landscape design.*
2. *Knowledge of various dimensions of professional practice.*

Knowledge and skills related to Management of Construction projects

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

8. Course Name : ELECTIVE IV
Course Code: 2BAR824

1. *Acquisition of specialised skills in upcoming areas of architecture*
2. *The knowledge and skills related to landscape design.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

9. Course Name : MID SEMESTER WORKSHOP VIII

Course Code: 2BAR824

1. *Hands on skills in specialized areas related to architecture.*
2. *Acquisition of specialised skills in upcoming areas of architecture*
3. *The knowledge and skills related to landscape design.*

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

NINTH SEMESTER SYLLABUS

10. Course Name : ARCHITECTURAL DESIGN PROJECT (THESIS

Course Code: 2BAR101

1. *Ability to design a building in a comprehensive manner similar to what happens in architectural practice.*
2. *To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc*
3. *To enable the performance of site zoning- to locate the different components of the building on the most suitable parts of the site*
4. *To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings*
5. *To provide understanding and appreciation of various structural concepts and systems and ability to incorporate them into a given design*

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*
CO4	*	*			*	*					*
CO5	*	*			*	*	*	*	*		*

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1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

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List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the "POs, PSOs, PEOs" document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2BAR11

CO1: Conceive three dimensional forms through architectural drawings.
CO2 : Conceive three dimensional spaces through architectural drawings.
CO3 : Conceive three dimensional forms through models.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS I**
   Course Code: 2BAR12

CO1:To understand the use of fundamental construction materials required for each building element.
CO2. To understand the interrelationship between material and structure.
CO3. To identify building elements and their assemblies at multiple levels of a wall section; starting from foundation to roof.
CO4. To be able to represent and nomenclate a particular building component in terms of building construction drawing requirements.

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CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*		*		*	*			*	*

3. Course Name : GRAPHICS I
Course Code: 2BAR13

CO1:Develop the skill of manual drawing.
CO2:Develop the skill of manual drawing and fundamentals of Plans.
CO3:Develop the skill of manual drawing and fundamentals of Elevation.
CO4:Develop the skill of manual drawing and fundamentals of Views.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*		*		*	*			*	*

4. Course Name : EARLY CIVILISATION - ART, CULTURE & ARCHITECTURE
Course Code: 2BAR14

CO1:Understand planning, Construction and Ornamentation of Buildings of Early River Valley Civilizations.
CO2:Understand planning, Construction and Ornamentation of Buildings of Pre Classical Civilizations.

CO3:Understand planning, Construction and Ornamentation of Buildings of Classical (Buddhist) Architecture

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*			*		*	*	
CO2	*		*	*						*	
CO3		*		*			*		*		

5. Course Name : STRUCTURES I
Course Code: 2BAR15

CO1: Understanding of fundamental concepts in Mechanics.
CO2: Apply principles of forces, moments, and centroids to analyze and design architectural structures.
CO3: Assess and optimize the stability of building designs through effective truss analysis and moment of inertia calculations

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : BASIC DESIGN I
Course Code: 2BAR16

CO1:Grasp various visual design principles through 2D illustrations.
CO2:Grasp various visual design principles through 3D models based explorations.
CO3:Grasp various spatial design principles through 2D illustrations.
CO4:Grasp various spatial design principles through 3D models based explorations.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

7. Course Name : VISUAL ARTS
Course Code: 2BAR17

CO1: Think in Visual terms and to obtain the command over Visual Medium.
CO2: Develop an understanding of mediums, techniques and content within the practice of art.
CO3: Incorporate appropriate usage of the skills in architectural visualization and presentation.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

8. Course Name : FOUNDATION WORKSHOP I
Course Code: 2BAR18

CO1: Develop receptive skills and sensitivity towards the nature of materials.
CO2: Develop receptive skills and sensitivity towards function of tools, and processes or methods.
CO3: Abstract and manifest observations into interpretations.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

9. Course Name : MID SEMESTER WORKSHOP I
Course Code: 2BAR19

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

SECOND SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN II**
   Course Code: 2BAR21

CO1: Effectively integrate forms and spaces with simple functions.
C02: Progress from designing spaces for one person/ family to a group of persons/families.
CO3: Understand the concepts of Place Making.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS II**
   Course Code: 2BAR22

CO1: Understand and apply the basics of masonry construction using Brick
CO2: Understand and apply the basics of masonry construction using Stone
CO3: Understand and apply the basics of frame construction using various materials such as timber, bamboo etc.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

3. Course Name : GRAPHICS II
Course Code: 2BAR23

CO1:Understand and draw two dimensional projections of simple objects.
CO2:Understand and draw two dimensional projections of complex objects.
CO3:Understand and draw three dimensional views of simple and complex objects.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

4. Course Name : HISTORY OF ARCHITECTURE I
Course Code: 2BAR24

CO1:Critically appreciate the aesthetics, construction and ornamentation of Classical Greek Architecture.
CO2:Critically appreciate the aesthetics, construction and ornamentation of Classical Roman Architecture.
CO3:Critically appreciate the aesthetics, construction and ornamentation of Ecclesiastical Architecture.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*			*		*	*	
CO2	*		*	*						*	
CO3		*		*			*		*		

5. Course Name : STRUCTURES II
Course Code: 2BAR25

CO1: Understand the basic concepts of mechanics.
CO2: Understand the behaviour of steel and concrete under different loading conditions.
CO3: Understand the fundamental concepts of stress, strain and elastic constants.
CO4: Understand the determination of bending and shear stresses, a prime parameter to analyse the strength of the structural element.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*
CO4	*		*				*		*		

6. Course Name : BASIC DESIGN II
Course Code: 2BAR26

CO1:Grasp two-dimensional concepts of visual aesthetics
CO2:Grasp two-dimensional concepts of spatial aesthetics
CO3:Grasp three-dimensional concepts of visual and spatial aesthetics

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	

7. Course Name : ART APPRECIATION
Course Code: 2BAR27

CO1: The students will be able to appreciate various forms of Art and understand their influences on Architectural Design

CO2: Think in visual terms to obtain a command over the various art mediums - spatial, visual, performative

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*			*				*		
CO2	*		*							*	

8. Course Name : SURVEYING & LEVELLING
Course Code: 2BAR28

CO1: Understand and operate basic survey and levelling instruments.

CO2:.Understand the basics of Contours and measure differences in elevation.

CO3: Grasp the basic principles of GPS and GIS in civil engineering

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

9. Course Name : MID SEMESTER WORKSHOP II
Course Code: 2BAR29

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

THIRD SEMESTER SYLLABUS

1. Course Name : ARCHITECTURAL DESIGN III
Course Code: 2BAR31

CO1: Design in response to the context of the site.
CO2: Design in response to the context of culture.
CO3: Delve into the design of a small scale 'shared' space.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS III
Course Code: 2BAR32

CO1: Understand construction practices of RCC Foundations.
CO2: Understand construction practices of RCC Slabs, Beams and Columns.
CO3: Understand construction practices of RCC Vaults and Domes.
CO4: Understand construction practices of RCC Staircases.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	
CO4				*	*			*		*	

3. Course Name : FOUNDATION WORKSHOP II
Course Code: 2BAR33

CO1: Understand the correlation of various objects and systems.
CO2 : Document various fabrication processes.
CO3 : Understand the use of appropriate tools, materials and processes via design.
CO4 : Understand, represent and create various joinery details using a range of materials.
CO5: Visualize forms and build simple prototypes

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*
CO5			*	*	*	*	*				*

4. Course Name : HISTORY OF ARCHITECTURE II
Course Code: 2BAR34

CO1: Obtain knowledge acquisition with respect to Evolution of Hindu temples.
CO2: Obtain knowledge acquisition with respect to Dravidian architecture in India and its design concepts.
CO3: Obtain knowledge acquisition with respect to Indo Aryan Architecture in India and its design concepts.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

5. Course Name : STRUCTURES III
Course Code: 2BAR35

CO1: Acquire knowledge and skills related to understanding

of structural behaviour of columns & beams
CO2: Analyze torsion in structural elements and solve basic problems relevant to architectural design.
CO3: Determine critical loads, slenderness ratios, and apply Euler's and Rankine's equations to ensure structural stability

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : THEORY OF ARCHITECTURE I
Course Code: 2BAR36

CO1: The student will be able to grasp the ideas and theories influencing architectural design.
CO2: The student will be able to grasp the Principles of architectural composition.
CO3: The student will be able to grasp the Use and need of ornament in architectural design.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

7. Course Name : COMPUTER APPLICATIONS I
Course Code: 2BAR37

CO1: Make drawings in 2D drawings in AutoCad

CO2: Make drawings in 2D and 3D using Rhino.
CO3: Make compositions and presentations using Illustrator and Photoshop.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

8. Course Name : CLIMATOLOGY
Course Code: 2BAR38

CO1: The student will be able to understand the Classification of tropical climates, Major climatic zones of India.
CO2: The student will be able to understand the implication of Climatic elements on spatial design.
CO3: The student will be able to understand the Thermal performance of building elements.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

9. Course Name : MID SEMESTER WORKSHOP III
Course Code: 2BAR39

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

FOURTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN IV**
   Course Code: 2BAR41

CO1: Develop skills of designing residential units within housing communities.
CO2: Develop skills of designing shared spaces within housing communities.
CO3: Develop skills of detailing architectural features within housing communities.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : BUILDING CONSTRUCTION AND MATERIALS IV**
   Course Code: 2BAR42

CO1: Understand the working and construction of large span roofs and slabs in RCC.
CO2: Understand the construction and details of various openings such as doors, windows, sliding doors etc. in steel and aluminium.
CO3: Understand the construction and details of various openings such as doors, windows, sliding doors etc. in UPVC.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. **Course Name : BUILDING SERVICES I (WATER SUPPLY AND SANITATION)**
   Course Code: 2BAR43

CO1: Understand and

incorporate water supply services into building designs.
CO2: Understand and incorporate sanitation services into building designs.
CO3: Understand and incorporate Rainwater Harvesting into building designs

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*	*			*					*	
CO3				*	*			*		*	

4. Course Name : HISTORY OF ARCHITECTURE III
Course Code: 2BAR44

CO1: Acquire knowledge with respect to Islamic Imperial Style architecture in India and their design concepts
CO2: Acquire knowledge with respect to Islamic Provincial Style architecture in India and their design concepts
CO3: Acquire knowledge with respect to Colonial architecture in India and their design concepts

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

5. Course Name : STRUCTURES IV
Course Code: 2BAR45

CO1: Understand structural behavior of beams and portal frames

CO2: Interpret Shear Force and Bending Moment Diagrams to understand structural behavior under different loading conditions.
CO3: Analyze propped cantilevers, fixed beams, and continuous beams using advanced methods like Clapeyron's Theorem and Moment Distribution.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : THEORY OF ARCHITECTURE II
Course Code: 2BAR46

CO1: Grasp ideas of architectural theoreticians and their influence on the development of the built environment.
CO2: Grasp ideas of architectural Theory in Antiquity and Renaissance.
CO3: Grasp ideas of Architectural Criticism and its influence on the development of the built environment.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

7. Course Name : COMPUTER APPLICATIONS II
Course Code: 2BAR47

CO1: Make drawings in 3D drawings in Rhino
CO2: Make compositions and presentations using Adobe InDesign, Adobe Illustrator

CO3: Make portfolio

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

8. Course Name : ELECTIVE I - Transformable Design
Course Code: 2BAR421

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Understand techniques to form finding

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*				*		*	*	*	
CO2	*		*	*		*		*	*	*	

9. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2BAR49

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via

interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

FIFTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN V**
   Course Code: 2BAR51

CO1: Develop sufficient skills to be able to integrate various forms of building technology and architectural imagery.
CO2: Develop sufficient skills to be able to design with sensitivity to the needs of disabled, elderly and children.
CO3: Develop sufficient skills to be able to integrate UNSDGs in Design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS V**
   Course Code: 2BAR52

CO1: Understand the design and working of vector active structures such as trusses, space frames, domes etc.
CO2: Understand the construction methods using various sections of steel for building elements such as columns, beams, slabs, roofs, portal frames etc.
CO3: Understand the construction methods using various Roof covering materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. Course Name : BUILDING SERVICES II (Electricity & Illumination)
Course Code: 2BAR53

CO1: Integrate electrical services into Architectural Design.
CO2: Integrate lighting into Architectural Design.
CO3: Understand the various Lighting Design considerations for different types of occupancies and tasks

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*	*			*					*	
CO3				*	*			*		*	

4. Course Name : HISTORY OF ARCHITECTURE IV
Course Code: 2BAR54

CO1: The student will be able to: appreciate the architectural evolution of European Architecture from Renaissance to Modern periods.
CO2: The student will be able to: appreciate the architectural evolution of American Architecture from Renaissance to Modern periods.
CO3: The student will be able to: appreciate The Chicago School Movement.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

5. Course Name : STRUCTURES V
Course Code: 2BAR55

CO1: Understand the processes of detailing of RCC Slabs, Beams and Staircases
CO2: Understand the composition, properties, and design principles of RCC, including its advantages and relevance in architectural practice.
CO3: Apply the limit state methods for designing structural elements like slabs, beams, columns, and footings using IS codes.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : SOCIOLOGY & ECONOMICS
Course Code: 2BAR56

CO1: Appreciate the role of social theories and issues in the process of designing built environments.
CO2: Appreciate the role of economic theories and issues in the process of designing built environments.
CO3: Delve into simple methods of research and writing.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*	*			*					*	
CO3				*	*			*		*	

7. Course Name : FOUNDATION WORKSHOP III
Course Code: 2BAR57

CO1 : Represent the structural behaviors of various materials and systems.
CO2 : Design and represent joinery details and combinations of elements
CO3: Communicate with various stakeholders to achieve practical solutions

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	

8. Course Name : ELECTIVE II - CINEMA AND THE CITY
Course Code: 2BAR522

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Exploration of Art & Architecture

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2	*				*	*		*	*	*	

9. Course Name : MID SEMESTER WORKSHOP V

Course Code: 2BAR59

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

SIXTH SEMESTER SYLLABUS

1. **Course Name : MID SEMESTER WORKSHOP V**
   Course Code: 2BAR61

CO1: Navigate the process of designing institutional buildings.
CO2: Develop sufficient skills to be able to design with sensitivity to the needs of disabled, elderly and children.
CO3: Develop sufficient skills to be able to integrate UNSDGs in Design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : BUILDING CONSTRUCTION & MATERIAL VI**
   Course Code: 2BAR62

CO1: Understand and identify different types of external finishes.
CO2: Understand and identify different types of internal finishes.
CO3: Design and detail a building envelope using a wall section to understand various aspects such as protection from water, protection from sun, wind etc

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. Course Name : BUILDING SERVICES III (Ventilation, AC, Lifts & Fire)
Course Code: 2BAR63

CO1: Integrate the services of Mechanical Ventilation into Architectural Design.
CO2: Integrate the services of Air Conditioning into Architectural Design.
CO3: Integrate the services of Firefighting into Architectural Design.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*	*			*					*	
CO3				*	*			*		*	

4. Course Name : CONTEMPORARY ARCHITECTURE
Course Code: 2BAR64

CO1: Familiarize themselves with contemporary practices in architecture.
C02: Understand the development of Indian Architecture post independence.
C03: Understand contemporary architecture theories and ideas, through the study of a range of buildings.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

5. Course Name : STRUCTURES VI
Course Code: 2BAR65

CO1: Acquire the skills of designing simple steel structures.

CO2: Design bolted, and welded connections for structural elements with a focus on practical application in architecture.

CO3: Analyze and design laterally restrained beams, ensuring stability and efficiency in architectural structures.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : ESTIMATING & COSTING
Course Code: 2BAR66

CO1: Tabulate specifications and quantities and calculate the estimation for simple buildings.

CO2 : Understanding the market costs

CO3 : Understanding the amount of materials used in a building

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*	*			*					*	
CO3				*	*			*		*	

7. Course Name : WORKING DRAWING
Course Code: 2BAR67

CO1: Develop architectural drawings of a simple building into working drawings.

CO2: Make detailed and legible drawings that can be used for construction of buildings.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2				*	*			*		*	

8. Course Name : ELECTIVE III - Beyond Accessibility -Universal Design
Course Code: 2BAR623

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Understanding the standards of universal design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

9. Course Name : MID SEMESTER WORKSHOP VI
Course Code: 2BAR69

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : STUDY TOUR
Course Code: 2BAR610

CO1: Consolidate various course contents through exposure to important works of architecture.

CO2: Explore various cultural and built practices local to the region of visit.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			

SEVENTH SEMESTER SYLLABUS

1. **Course Name : PROFESSIONAL TRAINING**
   Course Code: 2BAR71

CO1: Ability to integrate practical concerns into academic projects in the later semesters.
CO2 : Ability to be exposed to preparation of working drawing,

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	

EIGHTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN VII**
   Course Code: 2BAR81

CO1: Tackle the integration of program, structure and service into architecture Design.
CO2: Develop sufficient skills to be able to design with sensitivity to the needs of disabled, elderly and children.
CO3: Develop sufficient skills to be able to integrate UNSDGs in Design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS VII**
   Course Code: 2BAR82

CO1: Understand and represent construction techniques of various interior components of residential and commercial spaces.
CO2: Understand and represent construction techniques of various Internal finishes to the wall and ceiling.
CO3: Understand and represent construction techniques of various Partition systems and false ceiling systems.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. Course Name : BUILDING SERVICES IV (Acoustics)
Course Code: 2BAR83

CO1: Understand the role of sound and acoustics within building design.

CO2: Design and detail an acoustically sound auditorium.

CO3: Understand the use of Use of IS code 2526-1963

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*	*			*					*	
CO3				*	*			*		*	

4. Course Name : PHYSICAL PLANNING
Course Code: 2BAR84

CO1: Acquire introductory knowledge of urban within the context for architecture.

CO2: Acquire introductory knowledge of regional planning within the context for architecture.

CO3: Read and analyse urban contexts through an understanding of various planning concepts and theories.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

5. Course Name : STRUCTURES VII
Course Code: 2BAR85

CO1: Design and detail various RCC components of buildings.

CO2: Understand the principles, materials, and behavior of prestressed concrete and its application in tall structures.

CO3: Analyze and design single-storied framed structures, integrating structural stability with architectural functionality.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : PROFESSIONAL PRACTICE I
Course Code: 2BAR86

CO1: Grasping of professional responsibilities and liabilities.

CO2: Structural design of RCC components of buildings

CO3: Ability to integrate practical concerns into academic projects in the later semesters.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*

7. Course Name : INTERIOR DESIGN
Course Code: 2BAR87

CO1: Ability to provide a scheme for interior design of simple projects.

CO2: Grasping of professional responsibilities and liabilities.

CO3: Structural design of RCC components of buildings

CO4: Ability to integrate practical concerns into academic projects in the later semesters.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*						*	*	*	*	*
CO4	*			*	*	*				*	*

8. Course Name : ELECTIVE IV Participatory Design
Course Code: 2BAR824

CO1: To understand the key concepts of user-centered design, participatory design and co-design

CO2: To appropriately select methodologies to gather and evaluate users' ideas and context in order to answer a design question

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

9. Course Name : MID SEMESTER WORKSHOP VII
Course Code: 2BAR89

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

NINTH SEMESTER SYLLABUS

1. Course Name : ARCHITECTURE DESIGN VIII
Course Code: 2BAR91

CO1: Tackle the integration of program, structure and service into architecture Design.
CO2: Develop sufficient skills to be able to design with sensitivity to the needs of disabled, elderly and children.
CO3: Develop sufficient skills to be able to integrate UNSDGs in Design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. Course Name : BUILDING CONSTRUCTION & MATERIALS VII
Course Code: 2BAR92

CO1: Understand and represent construction techniques of Steel Trusses in Architecture
CO2: Understand and represent construction techniques of Pre-Engineered Buildings in Architecture
CO3: Understand and represent construction techniques of Prefabrication in Architecture

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. Course Name : CONSTRUCTION MANAGEMENT
Course Code: 2BAR93

CO1: Acquire knowledge and skills related to Construction Organization.

CO2: Acquire knowledge and skills related to Management of Construction projects.

CO3: Acquire knowledge and skills related to Construction Equipments

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

4. Course Name : DISSERTATION
Course Code: 2BAR94

CO1: Attain skills related to the conduction of rudimentary research in architecture
CO2: Attain skills related to the writing of a research report

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					

5. Course Name : DISASTER RESILIENT STRUCTURES
Course Code: 2BAR95

CO1: Knowledge and skills with respect to disaster resilience at building level

CO2: Knowledge and skills with respect to disaster resilience at neighborhood level

CO3: Develop sufficient skills to be able to integrate UNSDGs in Design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : LANDSCAPE ARCHITECTURE
Course Code: 2BAR97

CO1: The knowledge and skills related to landscape design.

CO2: Knowledge of various dimensions of professional practice.

CO3: Knowledge and skills related to Management of Construction projects.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*					*	*	*		*
CO2	*			*	*	*					
CO3	*		*				*	*	*	*	*

7. Course Name : ELECTIVE V (Explorations of the Urban Fabric)
Course Code: 2BAR925

CO1: Acquire specialized skills in upcoming areas of architecture and related fields.

CO2: Understanding the use of fabric in architecture

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

8. Course Name : MID SEMESTER WORKSHOP VIII
Course Code: 2BAR99

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

TENTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN PROJECT(THESIS)**
   Course Code: 2BAR101

CO1: Ability to design a building in a comprehensive manner similar to what happens in architectural practice.
CO2: To impart the techniques of site analysis including slope analysis, climatic analysis, analysis of views, access, services, vegetation etc
CO3: To enable the performance of site zoning- to locate the different components of the building on the most suitable parts of the site
CO4: To enable the articulation in spatial terms, the functional and emotional aspirations of the client and to harmonize the building with the surroundings
CO5: To provide understanding and appreciation of various structural concepts and systems and ability to incorporate them into a given design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*				*	*	*		*
CO2	*	*	*				*	*	*	*	*
CO3	*							*	*	*	*
CO4	*	*			*	*					*
CO5	*	*			*	*	*	*	*		*

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1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

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List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the "POs, PSOs, PEOs" document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2BAR11

CO1: Conceive three dimensional forms and spaces through architectural drawings and models.
CO2: To impart the skill of developing a brief for a design project based on the requirements of the client
CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*		*			*	*		
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS I**
   Course Code: 2BAR12

CO1:Understand construction of foundation and walls in different materials for load bearing structures
CO2: Understand material properties of different construction materials
CO2: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

3. Course Name : GRAPHICS I
Course Code: 2BAR13

CO1: Develop the skill of manual drawing and fundamentals of Plan, Elevation and Views.
CO2: Understand drawing as a tool to visual communication
CO3: Understand scaling down and up of an object / built

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

4. Course Name : EARLY CIVILISATION - ART, CULTURE & ARCHITECTURE
Course Code: 2BAR14

CO1: Understand planning, Construction and Ornamentation of Buildings of Early Civilizations.
CO2: Understand socio-cultural constructs of historical periods and its architectural response
CO3: Understand the material and technology pertaining to the said timeline

CO-PO-PSO Mapping

CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

5. **Course Name : STRUCTURES I**

Course Code: 2BAR15

CO1: Understanding of fundamental concepts in Mechanics.
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

6. **Course Name : BASIC DESIGN I**

Course Code: 2BAR16

CO1: Grasp various visual 2D illustrations and 3D models based explorations.
CO2: Grasp various spatial principles through 2D and 3D illustrations
CO3: Grasp form finding and generation

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

7. **Course Name : VISUAL ARTS**

Course Code: 2BAR17

CO1: Think in Visual terms and to obtain the command over Visual Medium.
CO2: Develop an understanding of mediums, techniques and content within the practice of art.
CO3: Incorporate appropriate usage of the skills in architectural visualization and presentation.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

8. **Course Name : FOUNDATION WORKSHOP I**
Course Code: 2BAR18

CO1: Experience hands-on exploration of forms with materials and tools.
CO2: Explore the use of model making as a thinking tool.
CO3: Understand the correlation between simple tools, materials and processes.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*	*			*	*	
CO2			*	*			*	*			*
CO3	*	*	*			*	*			*	*

9. **Course Name : MID SEMESTER WORKSHOP I**
Course Code: 2BAR19

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

SECOND SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN II**
   Course Code: 2BAR21

CO1: Effectively integrate forms and spaces with simple functions.
CO2: Progress from designing spaces for one person/ family to a group of persons/families.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*		*			*	*		
CO2				*		*	*	*		*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS II**
   Course Code: 2BAR22

CO1: Understand the basics of Timber Construction in medium span roof structures with covering materials and elements like doors and windows
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

3. Course Name : GRAPHICS II
Course Code: 2BAR23

CO1: Understand and draw two and three dimensional views of simple and complex objects.
CO2: Understand drawing as a tool to visual communication
CO3: Understand scaling down and up of an object / built

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

4. Course Name : HISTORY OF ARCHITECTURE I
Course Code: 2BAR24

CO1: Critically appreciate the aesthetics, construction and ornamentation of Classical and Medieval Architecture.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

5. Course Name : STRUCTURES II
Course Code: 2BAR25

CO1: Understand the basic concepts of mechanics.
CO2: Understand the behaviour of steel and concrete under different loading conditions.
CO3: Understand the fundamental concepts of stress, strain and elastic constants.
CO4: Understand the determination of bending and shear stresses, a prime parameter to analyse the strength of the structural element.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*	*	

6. Course Name : BASIC DESIGN II
Course Code: 2BAR26

CO1:Grasp two-dimensional concepts of visual and spatial aesthetics
CO1:Grasp three-dimensional concepts of visual and spatial aesthetics

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2	*	*	*			*	*	*	*		

7. Course Name : ART APPRECIATION
Course Code: 2BAR27

CO1: Think in visual terms to obtain a command over the various art mediums - spatial, visual, performative.
CO2: Understand the relation of Art along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on Art expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

8. Course Name : SURVEYING & LEVELLING
Course Code: 2BAR28

CO1: Understand and operate basic survey and leveling instruments.
CO2:.Understand the basics of Contours and measure differences in elevation.
CO3: Grasp the basic principles of GPS and GIS in civil engineering

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2		*	*	*			*				*
CO3	*		*		*	*		*		*	*

9. Course Name : MID SEMESTER WORKSHOP II
Course Code: 2BAR29

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

THIRD SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN III**
   Course Code: 2BAR31

CO1: Design in response to the context of site and culture.
CO2: Delve into the design of a small scale 'shared' space.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	3	1	2		*			*	*		
CO2				*		*	*	*		*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS III**
   Course Code: 2BAR32

CO1: Understand construction practices of RCC based building elements.
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

3. Course Name : FOUNDATION WORKSHOP II
Course Code: 2BAR33

CO1: Understand the correlation of various objects and systems.
CO2 : Document various fabrication processes.
CO3 : Understand the use of appropriate tools, materials and processes via design.
CO4 : Understand, represent and create various joinery details using a range of materials.
CO5: Visualize forms and build simple prototypes

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*
CO5			*	*	*	*	*				*

4. Course Name : HISTORY OF ARCHITECTURE II
Course Code: 2BAR34

CO1: Obtain knowledge acquisition with respect to Hindu Architecture in India and its design concepts.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

5. **Course Name : STRUCTURES III**
Course Code: 2BAR35

CO1: Acquire knowledge and skills related to understanding of structural behaviour of columns & beams
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

6. **Course Name : THEORY OF ARCHITECTURE I**
Course Code: 2BAR36

CO1: The student will be able to grasp the ideas and theories influencing architectural design.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

7. Course Name : COMPUTER APPLICATIONS I
Course Code: 2BAR37

CO1: Make drawings in 2D and 3D using Rhino.
CO2: Understand rhino as a tool to generate formal explorations

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2		*	*	*	*			*	*	*	*

8. Course Name : CLIMATOLOGY
Course Code: 2BAR38

CO1: The student will be able to understand the implication of Climatic elements on spatial design.
CO2: Understand architectural expression of climate on elements like - courtyard, facades, fenestrations, roofs etc.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*				*		*	*	*	
CO2			*	*	*	*	*		*	*	*

9. Course Name : MID SEMESTER WORKSHOP III
Course Code: 2BAR39

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : Design Thinking - 1 (DTPA - 1)
Course Code: GPSBT1021

O1: Apply teamwork towards building a solution. (Level 3)
O2: Apply basic Design Research (Level 3)
O3: Apply brainstorming as a way of innovative thinking. (Level 3)
O4: Apply story-telling in Design Thinking. (Level 3)

11. Course Name : Oral & Written Communication – 1A
Course Code: GPSBD1121

01: Understand the skills required to use the English language effectively in all areas of communication. [Level-1]
02: Understand their areas of weaknesses and ways to improve upon them. [Level-1]
03: Understand the knowledge required in various situations, like in formal and informal settings.
[Level-1] 04: Understand how to write official reports and proposals. [Level-1]

FOURTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN IV**
   Course Code: 2BAR41

CO1: Develop skills of designing residential units and shared spaces within housing communities.
CO2: Develop abilities to design with modularity with respect to spatial as well as material and structural attributes
CO3: Appreciate the role of social and economic theories and issues in the process of designing built environments.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

2. **Course Name : BUILDING CONSTRUCTION AND MATERIALS IV**
   Course Code: 2BAR42

CO1: Understanding of construction practices related to RCC floors, roofs and finishes.
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*
CO4			*	*			*	*	*		

3. Course Name : BUILDING SERVICES I (WATER SUPPLY AND SANITATION)
Course Code: 2BAR43

CO1: Understand water supply and sanitation services into building designs.
CO2: Incorporate water supply and sanitation services into building designs.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	

4. Course Name : HISTORY OF ARCHITECTURE III
Course Code: 2BAR44

CO1: Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2		*	*	*	*	*		*	*	*	
CO3		*		*	*	*				*	

5. **Course Name : STRUCTURES IV**
Course Code: 2BAR45

CO1: Understand structural behaviour of beams and portal frames
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : THEORY OF ARCHITECTURE II**
Course Code: 2BAR46

CO1: Grasp ideas of architectural theoreticians and their influence on the development of the built environment.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

7. **Course Name: COMPUTER APPLICATIONS II**
Course Code: 2BAR47

CO1: Make drawings in 3D drawings in Rhino
CO2: Make compositions and presentations using Adobe InDesign, Adobe Illustrator
CO3: Make portfolio

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

8. Course Name : ELECTIVE I - Transformable Design
Course Code: 2BAR421

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Understand techniques to form finding

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*				*		*	*	*	
CO2	*		*	*		*		*	*	*	

9. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2BAR49

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : Explore Career Options in Current Landscape (ECO-Job)
Course Code: **GPSDR1031**

O1: To evaluate their strength, personality traits, and career preferences
O2:To select a career aligned with their interest, abilities, and personality traits
O3: To compare and analyze the plethora of job options(Government and Private)
O4: Understand the general best practices in the job application process (Example-LinkedIn)
O5: Shortlist the Career Options and pathways based on Industries, Sectors, and mapped Job Roles preferences.
O6: Compare and demonstrate the impact of how digital reputation can affect their careers in professional life.
O7: To motivate and encourage the students to create goals in their life
O8: To address the doubts and queries of the students.

11. Course Name : Explore 21st Century Skills
Course Code: GPSDR1021

1: Understand the concepts and interpret 21st century skills in their lives more consciously [Level-1].
2: Demonstrate their own understanding of 21st century skills critically, to identify their areas of strengths and weaknesses, and work on them systematically [Level-1].
3: Relate the knowledge shared on the 21st century skills to build upon and become well rounded corporate professionals [Level-1].

12. Course Name : Map Your Career Goals
Course Code: GPSDR1061

O1: Understand the concept and the importance of goal setting [Level-1]
O2: Identify, compare and relate their own areas of strengths and weaknesses with respect to goal setting, defining and working on the goals systematically [Level-2]
O3: To gain clarity on creating SMART goals: immediate term, short-term and long-term [Level-2]
O4: To design a clear career goal in their chosen career pathway (1 of 4 tracks) and submit it for evaluation and feedback [Level-3]

13. Course Name : Growth Mindset
Course Code: GPSDR1041

1: Understand the concepts and understanding of mindsets in their daily lives – personally and professionally [Level-1].
2: Compare their own areas of strengths and weaknesses with respect their mindset, and work on them systematically [Level-1].
3: Demonstrate the knowledge of mindsets and improve their own mindsets to become well rounded corporate professionals [Level-1].

FIFTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN V**
   Course Code: 2BAR51

CO1: Develop sufficient skills to be able to integrate various forms of building technology and architectural imagery.
CO2: To impart the skill of developing a brief for a design project based on the requirements of the client
CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*		*			*	*		
CO2		*	*	*	*	*	*	*		*	*
CO3		*		*			*	*		*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS V**
   Course Code: 2BAR52

CO1: Design and create details for the construction of large span structures.
CO2: Understand the use of plastics in building construction.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*			*		*
CO2		*	*		*		*	*			

3. **Course Name : BUILDING SERVICES II (Electricity & Illumination)**

Course Code: 2BAR53

CO1: Integrate electrical services into Architectural Design.
CO2: Integrate lighting into Architectural Design.
CO3: Understand the various Lighting Design considerations for different types of occupancies and tasks

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*			*	*	*		*
CO2		*	*			*	*			*	*
CO3	*			*		*		*			*

4. **Course Name : HISTORY OF ARCHITECTURE IV**
Course Code: 2BAR54

CO1: The student will be able to: appreciate the architectural evolution of European and American Architecture from Renaissance to Modern periods.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2	*	*	*	*			*		*		*
CO3		*	*		*	*				*	

5. **Course Name : STRUCTURES V**

Course Code: 2BAR55

CO1: Understand the processes of detailing of RCC Slabs, Beams and Staircases
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : SOCIOLOGY & ECONOMICS**
Course Code: 2BAR56

CO1: Appreciate the role of social and economic theories and issues in the process of designing built environments.
CO2: Delve into simple methods of research and writing.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		
CO2			*		*	*	*				*

7. **Course Name : FOUNDATION WORKSHOP III**
Course Code: 2BAR57

CO1 : Represent the structural behaviors of various materials and systems.
CO2 : Design and represent joinery details and combinations of elements
CO3: Communicate with various stakeholders to achieve practical solutions

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*		*				*	*		*	*

8. Course Name : ELECTIVE II - CINEMA AND THE CITY
Course Code: 2BAR522

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Exploration of Art & Architecture

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2	*				*	*		*	*	*	

9. Course Name : MID SEMESTER WORKSHOP V
Course Code: 2BAR59

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : Critical Inquiry (CIY)
Course Code: CKSMM1011

CO1: Understand the connection between beliefs and action. (L2)
CO2: Recognize the impact of presumptions on daily life. (L2)
CO3: Recognize that access to the same information can lead to varied interpretations. (L2)
CO4: Examine the value of diverse perspectives. (L4)
CO5: Investigate into the origins and sources of their beliefs. (L6)

11. Course Name : Oral & Written Communication – 2L
Course Code: GPSBD2141

01: Understand the skills required to use the English language effectively in the business and corporate world. [Level-1]
02: Understand and be able to express points of view of others meaningfully.
[Level-1] 03: Understand how to clearly interpret visuals and graphs. [Level-1]
04: Understand how to write technical content meant for specific audiences. [Level-1]
05: Understand how to write reviews and articles about books and published works. [Level-1]

SIXTH SEMESTER SYLLABUS

1. **Course Name : MID SEMESTER WORKSHOP V**
   Course Code: 2BAR61

CO1: Navigate the process of designing institutional buildings.
CO2: To impart the skill of developing a brief for a design project based on the requirements of the client
CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

2. **Course Name : BUILDING CONSTRUCTION & MATERIAL VI**
   Course Code: 2BAR62

CO1: Understand the construction and detailing of Special Doors, Windows & Finishes.
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

3. **Course Name : BUILDING SERVICES III (Ventilation, AC, Lifts & Fire)**
   Course Code: 2BAR63

CO1: Integrate the services of Mechanical Ventilation into Architectural Design.
CO2: Integrate the services of Air Conditioning into Architectural Design.
CO3: Integrate the services of Firefighting into Architectural Design.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*		*			*	*		
CO2		*	*	*	*				*	*	*
CO3			*	*				*	*		

4. Course Name : CONTEMPORARY ARCHITECTURE
Course Code: 2BAR64

CO1: Familiarize themselves with contemporary practices in architecture.

C02: Understand the development of Indian Architecture post independence.

C03: Understand contemporary architecture theories and ideas, through the study of a range of buildings.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2	*		*				*			*	
CO3		*	*		*	*	*				*

5. Course Name : STRUCTURES VI
Course Code: 2BAR65

CO1: Acquire the skills of designing simple steel structures.
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : ESTIMATING & COSTING**
   Course Code: 2BAR66

CO1: Tabulate specifications and quantities and calculate the estimation for simple buildings.

CO2 : Understanding the market costs

CO3 : Understanding the amount of materials used in a building

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*	*	*	*				*	*	*	*
CO3			*		*	*				*	

7. **Course Name : WORKING DRAWING**
   Course Code: 2BAR67

CO1: Develop architectural drawings of a simple building into working drawings.

CO2: Make detailed and legible drawings that can be used for construction of buildings.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

8. **Course Name : ELECTIVE III - Beyond Accessibility -Universal Design**
   Course Code: 2BAR623

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Understanding the standards of universal design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

9. **Course Name : MID SEMESTER WORKSHOP VI**
   Course Code: 2BAR69

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : STUDY TOUR

Course Code: 2BAR610

CO1: Consolidate various course contents through exposure to important works of architecture.

CO2: Explore various cultural and built practices local to the region of visit.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2			*		*	*	*			*	

SEVENTH SEMESTER SYLLABUS

1. Course Name : PROFESSIONAL TRAINING

Course Code: 2BAR71

CO1: Ability to integrate practical concerns into academic projects in the later semesters.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

EIGHTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN VII**
   Course Code: 2BAR81

CO1: Tackle the integration of program, structure and service in to architecture Design.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS VII**
   Course Code: 2BAR82

CLO1: To familiarize students with construction techniques in interior spaces and provide an introduction to prefabrication.

CLO2: Understand material properties of different construction materials

CLO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

3. **Course Name : BUILDING SERVICES IV (Acoustics)**
Course Code: 2BAR83

CO1: Understand the role of sound and acoustics within building design.

CO2: Design and detail an acoustically sound auditorium.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2			*			*	*	*			*

4. **Course Name : PHYSICAL PLANNING**
Course Code: 2BAR84

CO1: Acquire introductory knowledge of urban and regional planning within the context for architecture.

CO2: Read and analyse urban contexts through an understanding of various planning concepts and theories.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2			*			*	*	*			*

5. **Course Name : STRUCTURES VII**
Course Code: 2BAR85

CO1: Design and detail various RCC components of buildings.

CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : PROFESSIONAL PRACTICE I**
Course Code: 2BAR86

CO1: Grasp professional responsibilities and liabilities.

CO2: Understand the profession and relevant ethical practices.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*				*	*	*

7. **Course Name : INTERIOR DESIGN**
Course Code: 2BAR87

CO1: Provide a scheme for interior design of simple projects.

CO2: Understand the relationship and response of architecture and interior design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*	*			*			*		*	*

8. **Course Name : ELECTIVE IV - DIGITAL SCULPTING**
Course Code: 2BAR824

CO1: Ability to Model a natural object and its form both physically and in rhino using various methods.

CO2: Ability to fabricate the model using various methods of fabrication, 3D printing, laser cutting, CNC etc. or even by manual methods.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*

CO2		*	*	*	*	*			*	*	*

9. Course Name : MID SEMESTER WORKSHOP VII
Course Code: 2BAR89

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

NINTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN VIII**
   Course Code: 2BAR91

CO1: Tackle the integration of program, structure and service in to architecture Design.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS VII**
   Course Code: 2BAR92

CO1: Design roofs for large span structures

CO2: Understand material properties of different construction materials

CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	

3. Course Name : CONSTRUCTION MANAGEMENT
Course Code: 2BAR93

CO1: Acquire knowledge related to Management of Construction projects.

CO2: Understand skills related to Management of Construction projects.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			

4. Course Name : DISSERTATION
Course Code: 2BAR94

CO1: Attain skills related to the conduction of rudimentary research in architecture

CO2: Attain skills related to the writing of a research report

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			

5. Course Name : DISASTER RESILIENT STRUCTURES
Course Code: 2BAR95

CO1: Knowledge with respect to disaster resilience at building and neighbourhood level

CO2: skills with respect to disaster resilience at building and neighbourhood level

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*	*	*	*		*	*		*	*
CO2	*	*		*	*	*		*	*		*

6. Course Name : LANDSCAPE ARCHITECTURE
Course Code: 2BAR97

CO1: Acquire knowledge and skills related to landscape design.

CO2: Understand landscape design as a tool to enhance architecture .

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*		*	*	*	*	*

7. Course Name : ELECTIVE V- Participatory Design
Course Code: 2BAR925

CO1: To understand the key concepts of user-centered design, participatory design and co-design
CO2: To appropriately select methodologies to gather and evaluate users' ideas and context in order to answer a design question

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*		*	*		*	*

8. Course Name : MID SEMESTER WORKSHOP VIII
Course Code: 2BAR99

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

TENTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN PROJECT(THESIS)**
   Course Code: 2BAR101

CO1: Design a building in a comprehensive manner similar to what happens in architectural practice.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

CMR UNIVERSITY
Private University Established in Karnataka State by Act No. 46 of 2013

1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

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List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the "POs, PSOs, PEOs" document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2BAR11

CO1: Conceive three dimensional forms and spaces through architectural drawings and models.
CO2: To impart the skill of developing a brief for a design project based on the requirements of the client
CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*		*			*	*		
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS I**
   Course Code: 2BAR12

CO1:Understand construction of foundation and walls in different materials for load bearing structures
CO2: Understand material properties of different construction materials
CO2: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

3. Course Name : GRAPHICS I
Course Code: 2BAR13

CO1: Develop the skill of manual drawing and fundamentals of Plan, Elevation and Views.
CO2: Understand drawing as a tool to visual communication
CO3: Understand scaling down and up of an object / built

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

4. Course Name : EARLY CIVILISATION - ART, CULTURE & ARCHITECTURE
Course Code: 2BAR14

CO1: Understand planning, Construction and Ornamentation of Buildings of Early Civilizations.
CO2: Understand socio-cultural constructs of historical periods and its architectural response
CO3: Understand the material and technology pertaining to the said timeline

CO-PO-PSO Mapping

CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

5. **Course Name : STRUCTURES I**

Course Code: 2BAR15

CO1: Understanding of fundamental concepts in Mechanics.
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

6. **Course Name : BASIC DESIGN I**

Course Code: 2BAR16

CO1: Grasp various visual 2D illustrations and 3D models based explorations.
CO2: Grasp various spatial principles through 2D and 3D illustrations
CO3: Grasp form finding and generation

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

7. **Course Name : VISUAL ARTS**

Course Code: 2BAR17

CO1: Think in Visual terms and to obtain the command over Visual Medium.
CO2: Develop an understanding of mediums, techniques and content within the practice of art.
CO3: Incorporate appropriate usage of the skills in architectural visualization and presentation.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

8. **Course Name : FOUNDATION WORKSHOP I**
Course Code: 2BAR18

CO1: Experience hands-on exploration of forms with materials and tools.
CO2: Explore the use of model making as a thinking tool.
CO3: Understand the correlation between simple tools, materials and processes.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*	*			*	*	
CO2			*	*			*	*			*
CO3	*	*	*			*	*			*	*

9. **Course Name : MID SEMESTER WORKSHOP I**
Course Code: 2BAR19

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

SECOND SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN II**
   Course Code: 2BAR21

CO1: Effectively integrate forms and spaces with simple functions.
CO2: Progress from designing spaces for one person/ family to a group of persons/families.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*		*			*	*		
CO2				*		*	*	*		*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS II**
   Course Code: 2BAR22

CO1: Understand the basics of Timber Construction in medium span roof structures with covering materials and elements like doors and windows
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

3. Course Name : GRAPHICS II
Course Code: 2BAR23

CO1: Understand and draw two and three dimensional views of simple and complex objects.
CO2: Understand drawing as a tool to visual communication
CO3: Understand scaling down and up of an object / built

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

4. Course Name : HISTORY OF ARCHITECTURE I
Course Code: 2BAR24

CO1: Critically appreciate the aesthetics, construction and ornamentation of Classical and Medieval Architecture.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

5. Course Name : STRUCTURES II
Course Code: 2BAR25

CO1: Understand the basic concepts of mechanics.
CO2: Understand the behaviour of steel and concrete under different loading conditions.
CO3: Understand the fundamental concepts of stress, strain and elastic constants.
CO4: Understand the determination of bending and shear stresses, a prime parameter to analyse the strength of the structural element.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*	*	

6. Course Name : BASIC DESIGN II
Course Code: 2BAR26

CO1:Grasp two-dimensional concepts of visual and spatial aesthetics
CO1:Grasp three-dimensional concepts of visual and spatial aesthetics

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2	*	*	*			*	*	*	*		

7. Course Name : ART APPRECIATION
Course Code: 2BAR27

CO1: Think in visual terms to obtain a command over the various art mediums - spatial, visual, performative.
CO2: Understand the relation of Art along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on Art expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

8. Course Name : SURVEYING & LEVELLING
Course Code: 2BAR28

CO1: Understand and operate basic survey and leveling instruments.
CO2:.Understand the basics of Contours and measure differences in elevation.
CO3: Grasp the basic principles of GPS and GIS in civil engineering

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2		*	*	*			*				*
CO3	*		*		*	*		*		*	*

9. Course Name : MID SEMESTER WORKSHOP II
Course Code: 2BAR29

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

THIRD SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN III**
   Course Code: 2BAR31

CO1: Design in response to the context of site and culture.
CO2: Delve into the design of a small scale 'shared' space.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	3	1	2		*			*	*		
CO2				*		*	*	*		*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS III**
   Course Code: 2BAR32

CO1: Understand construction practices of RCC based building elements.
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

3. Course Name : FOUNDATION WORKSHOP II
Course Code: 2BAR33

CO1: Understand the correlation of various objects and systems.
CO2 : Document various fabrication processes.
CO3 : Understand the use of appropriate tools, materials and processes via design.
CO4 : Understand, represent and create various joinery details using a range of materials.
CO5: Visualize forms and build simple prototypes

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*
CO5			*	*	*	*	*				*

4. Course Name : HISTORY OF ARCHITECTURE II
Course Code: 2BAR34

CO1: Obtain knowledge acquisition with respect to Hindu Architecture in India and its design concepts.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

5. **Course Name : STRUCTURES III**
Course Code: 2BAR35

CO1: Acquire knowledge and skills related to understanding of structural behaviour of columns & beams
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

6. **Course Name : THEORY OF ARCHITECTURE I**
Course Code: 2BAR36

CO1: The student will be able to grasp the ideas and theories influencing architectural design.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

7. Course Name : COMPUTER APPLICATIONS I
Course Code: 2BAR37

CO1: Make drawings in 2D and 3D using Rhino.
CO2: Understand rhino as a tool to generate formal explorations

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2		*	*	*	*			*	*	*	*

8. Course Name : CLIMATOLOGY
Course Code: 2BAR38

CO1: The student will be able to understand the implication of Climatic elements on spatial design.
CO2: Understand architectural expression of climate on elements like - courtyard, facades, fenestrations, roofs etc.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*				*		*	*	*	
CO2			*	*	*	*	*		*	*	*

9. Course Name : MID SEMESTER WORKSHOP III
Course Code: 2BAR39

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : Design Thinking - 1 (DTPA - 1)
Course Code: GPSBT1021

O1: Apply teamwork towards building a solution. (Level 3)
O2: Apply basic Design Research (Level 3)
O3: Apply brainstorming as a way of innovative thinking. (Level 3)
O4: Apply story-telling in Design Thinking. (Level 3)

11. Course Name : Oral & Written Communication – 1A
Course Code: GPSBD1121

01: Understand the skills required to use the English language effectively in all areas of communication. [Level-1]
02: Understand their areas of weaknesses and ways to improve upon them. [Level-1]
03: Understand the knowledge required in various situations, like in formal and informal settings.
[Level-1] 04: Understand how to write official reports and proposals. [Level-1]

FOURTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN IV**
   Course Code: 2BAR41

CO1: Develop skills of designing residential units and shared spaces within housing communities.
CO2: Develop abilities to design with modularity with respect to spatial as well as material and structural attributes
CO3: Appreciate the role of social and economic theories and issues in the process of designing built environments.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*

2. **Course Name : BUILDING CONSTRUCTION AND MATERIALS IV**
   Course Code: 2BAR42

CO1: Understanding of construction practices related to RCC floors, roofs and finishes.
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	
CO3	*		*	*			*	*	*		*
CO4			*	*			*	*	*		

3. Course Name : BUILDING SERVICES I (WATER SUPPLY AND SANITATION)
Course Code: 2BAR43

CO1: Understand water supply and sanitation services into building designs.
CO2: Incorporate water supply and sanitation services into building designs.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*		*	

4. Course Name : HISTORY OF ARCHITECTURE III
Course Code: 2BAR44

CO1: Acquire knowledge with respect to Islamic and colonial architecture in India and their design concepts
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2		*	*	*	*	*		*	*	*	
CO3		*		*	*	*				*	

5. **Course Name : STRUCTURES IV**
Course Code: 2BAR45

CO1: Understand structural behaviour of beams and portal frames
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : THEORY OF ARCHITECTURE II**
Course Code: 2BAR46

CO1: Grasp ideas of architectural theoreticians and their influence on the development of the built environment.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

7. **Course Name: COMPUTER APPLICATIONS II**
Course Code: 2BAR47

CO1: Make drawings in 3D drawings in Rhino
CO2: Make compositions and presentations using Adobe InDesign, Adobe Illustrator
CO3: Make portfolio

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

8. Course Name : ELECTIVE I - Transformable Design
Course Code: 2BAR421

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Understand techniques to form finding

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*				*		*	*	*	
CO2	*		*	*		*		*	*	*	

9. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2BAR49

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : Explore Career Options in Current Landscape (ECO-Job)
Course Code: **GPSDR1031**

O1: To evaluate their strength, personality traits, and career preferences
O2:To select a career aligned with their interest, abilities, and personality traits
O3: To compare and analyze the plethora of job options(Government and Private)
O4: Understand the general best practices in the job application process (Example-LinkedIn)
O5: Shortlist the Career Options and pathways based on Industries, Sectors, and mapped Job Roles preferences.
O6: Compare and demonstrate the impact of how digital reputation can affect their careers in professional life.
O7: To motivate and encourage the students to create goals in their life
O8: To address the doubts and queries of the students.

11. Course Name : Explore 21st Century Skills
Course Code: GPSDR1021

1: Understand the concepts and interpret 21st century skills in their lives more consciously [Level-1].
2: Demonstrate their own understanding of 21st century skills critically, to identify their areas of strengths and weaknesses, and work on them systematically [Level-1].
3: Relate the knowledge shared on the 21st century skills to build upon and become well rounded corporate professionals [Level-1].

12. Course Name : Map Your Career Goals
Course Code: GPSDR1061

O1: Understand the concept and the importance of goal setting [Level-1]
O2: Identify, compare and relate their own areas of strengths and weaknesses with respect to goal setting, defining and working on the goals systematically [Level-2]
O3: To gain clarity on creating SMART goals: immediate term, short-term and long-term [Level-2]
O4: To design a clear career goal in their chosen career pathway (1 of 4 tracks) and submit it for evaluation and feedback [Level-3]

13. Course Name : Growth Mindset
Course Code: GPSDR1041

1: Understand the concepts and understanding of mindsets in their daily lives – personally and professionally [Level-1].
2: Compare their own areas of strengths and weaknesses with respect their mindset, and work on them systematically [Level-1].
3: Demonstrate the knowledge of mindsets and improve their own mindsets to become well rounded corporate professionals [Level-1].

FIFTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN V**
   Course Code: 2BAR51

CO1: Develop sufficient skills to be able to integrate various forms of building technology and architectural imagery.
CO2: To impart the skill of developing a brief for a design project based on the requirements of the client
CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*		*			*	*		
CO2		*	*	*	*	*	*	*		*	*
CO3		*		*			*	*		*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS V**
   Course Code: 2BAR52

CO1: Design and create details for the construction of large span structures.
CO2: Understand the use of plastics in building construction.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*			*		*
CO2		*	*		*		*	*			

3. **Course Name : BUILDING SERVICES II (Electricity & Illumination)**

Course Code: 2BAR53

CO1: Integrate electrical services into Architectural Design.
CO2: Integrate lighting into Architectural Design.
CO3: Understand the various Lighting Design considerations for different types of occupancies and tasks

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*			*	*	*		*
CO2		*	*			*	*			*	*
CO3	*			*		*		*			*

4. **Course Name : HISTORY OF ARCHITECTURE IV**
Course Code: 2BAR54

CO1: The student will be able to: appreciate the architectural evolution of European and American Architecture from Renaissance to Modern periods.
CO2: Understand the relation of building design along a specific timeline
CO3: Understand the relation of timeline, socio-cultural constructs on architectural expression

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*	*		*	*	*	
CO2	*	*	*	*			*		*		*
CO3		*	*		*	*				*	

5. **Course Name : STRUCTURES V**

Course Code: 2BAR55

CO1: Understand the processes of detailing of RCC Slabs, Beams and Staircases
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : SOCIOLOGY & ECONOMICS**
Course Code: 2BAR56

CO1: Appreciate the role of social and economic theories and issues in the process of designing built environments.
CO2: Delve into simple methods of research and writing.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		
CO2			*		*	*	*				*

7. **Course Name : FOUNDATION WORKSHOP III**
Course Code: 2BAR57

CO1 : Represent the structural behaviors of various materials and systems.
CO2 : Design and represent joinery details and combinations of elements
CO3: Communicate with various stakeholders to achieve practical solutions

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*		*				*	*		*	*

8. Course Name : ELECTIVE II - CINEMA AND THE CITY
Course Code: 2BAR522

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Exploration of Art & Architecture

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2	*				*	*		*	*	*	

9. Course Name : MID SEMESTER WORKSHOP V
Course Code: 2BAR59

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : Critical Inquiry (CIY)
Course Code: CKSMM1011

CO1: Understand the connection between beliefs and action. (L2)
CO2: Recognize the impact of presumptions on daily life. (L2)
CO3: Recognize that access to the same information can lead to varied interpretations. (L2)
CO4: Examine the value of diverse perspectives. (L4)
CO5: Investigate into the origins and sources of their beliefs. (L6)

11. Course Name : Oral & Written Communication – 2L
Course Code: GPSBD2141

01: Understand the skills required to use the English language effectively in the business and corporate world. [Level-1]
02: Understand and be able to express points of view of others meaningfully.
[Level-1] 03: Understand how to clearly interpret visuals and graphs. [Level-1]
04: Understand how to write technical content meant for specific audiences. [Level-1]
05: Understand how to write reviews and articles about books and published works. [Level-1]

SIXTH SEMESTER SYLLABUS

1. **Course Name : MID SEMESTER WORKSHOP V**
   Course Code: 2BAR61

CO1: Navigate the process of designing institutional buildings.
CO2: To impart the skill of developing a brief for a design project based on the requirements of the client
CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

2. **Course Name : BUILDING CONSTRUCTION & MATERIAL VI**
   Course Code: 2BAR62

CO1: Understand the construction and detailing of Special Doors, Windows & Finishes.
CO2: Understand material properties of different construction materials
CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

3. **Course Name : BUILDING SERVICES III (Ventilation, AC, Lifts & Fire)**
   Course Code: 2BAR63

CO1: Integrate the services of Mechanical Ventilation into Architectural Design.
CO2: Integrate the services of Air Conditioning into Architectural Design.
CO3: Integrate the services of Firefighting into Architectural Design.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*	*		*			*	*		
CO2		*	*	*	*				*	*	*
CO3			*	*				*	*		

4. Course Name : CONTEMPORARY ARCHITECTURE
Course Code: 2BAR64

CO1: Familiarize themselves with contemporary practices in architecture.

C02: Understand the development of Indian Architecture post independence.

C03: Understand contemporary architecture theories and ideas, through the study of a range of buildings.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2	*		*				*			*	
CO3		*	*		*	*	*				*

5. Course Name : STRUCTURES VI
Course Code: 2BAR65

CO1: Acquire the skills of designing simple steel structures.
CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : ESTIMATING & COSTING**
   Course Code: 2BAR66

CO1: Tabulate specifications and quantities and calculate the estimation for simple buildings.

CO2 : Understanding the market costs

CO3 : Understanding the amount of materials used in a building

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*	*	*	*				*	*	*	*
CO3			*		*	*				*	

7. **Course Name : WORKING DRAWING**
   Course Code: 2BAR67

CO1: Develop architectural drawings of a simple building into working drawings.

CO2: Make detailed and legible drawings that can be used for construction of buildings.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

8. **Course Name : ELECTIVE III - Beyond Accessibility -Universal Design**
   Course Code: 2BAR623

CO1: Acquire specialised skills in upcoming areas of architecture and related fields.
CO2: Understanding the standards of universal design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*		*		*		*			*	

9. **Course Name : MID SEMESTER WORKSHOP VI**
   Course Code: 2BAR69

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

10. Course Name : STUDY TOUR

Course Code: 2BAR610

CO1: Consolidate various course contents through exposure to important works of architecture.

CO2: Explore various cultural and built practices local to the region of visit.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2			*		*	*	*			*	

SEVENTH SEMESTER SYLLABUS

1. Course Name : PROFESSIONAL TRAINING

Course Code: 2BAR71

CO1: Ability to integrate practical concerns into academic projects in the later semesters.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

EIGHTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN VII**
   Course Code: 2BAR81

CO1: Tackle the integration of program, structure and service in to architecture Design.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS VII**
   Course Code: 2BAR82

CLO1: To familiarize students with construction techniques in interior spaces and provide an introduction to prefabrication.

CLO2: Understand material properties of different construction materials

CLO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

3. **Course Name : BUILDING SERVICES IV (Acoustics)**
Course Code: 2BAR83

CO1: Understand the role of sound and acoustics within building design.

CO2: Design and detail an acoustically sound auditorium.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2			*			*	*	*			*

4. **Course Name : PHYSICAL PLANNING**
Course Code: 2BAR84

CO1: Acquire introductory knowledge of urban and regional planning within the context for architecture.

CO2: Read and analyse urban contexts through an understanding of various planning concepts and theories.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2			*			*	*	*			*

5. **Course Name : STRUCTURES VII**
Course Code: 2BAR85

CO1: Design and detail various RCC components of buildings.

CO2: Understand the relation of building design and structural design
CO3: Understand application of materials to design structures

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*	*				*	*
CO3			*	*	*					*	*

6. **Course Name : PROFESSIONAL PRACTICE I**
Course Code: 2BAR86

CO1: Grasp professional responsibilities and liabilities.

CO2: Understand the profession and relevant ethical practices.

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*				*	*	*

7. **Course Name : INTERIOR DESIGN**
Course Code: 2BAR87

CO1: Provide a scheme for interior design of simple projects.

CO2: Understand the relationship and response of architecture and interior design

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2	*	*			*			*		*	*

8. **Course Name : ELECTIVE IV - DIGITAL SCULPTING**
Course Code: 2BAR824

CO1: Ability to Model a natural object and its form both physically and in rhino using various methods.

CO2: Ability to fabricate the model using various methods of fabrication, 3D printing, laser cutting, CNC etc. or even by manual methods.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*

CO2		*	*	*	*	*			*	*	*

9. Course Name : MID SEMESTER WORKSHOP VII
Course Code: 2BAR89

CO1: Apply hands-on field skills in specialized areas related to architecture.

CO2: Collaborate within cross-semester teams to facilitate peer learning.

CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.

C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

NINTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN VIII**
   Course Code: 2BAR91

CO1: Tackle the integration of program, structure and service in to architecture Design.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	

2. **Course Name : BUILDING CONSTRUCTION & MATERIALS VII**
   Course Code: 2BAR92

CO1: Design roofs for large span structures

CO2: Understand material properties of different construction materials

CO3: Understand construction applications and techniques of building through different construction materials

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	

3. Course Name : CONSTRUCTION MANAGEMENT
Course Code: 2BAR93

CO1: Acquire knowledge related to Management of Construction projects.

CO2: Understand skills related to Management of Construction projects.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			

4. Course Name : DISSERTATION
Course Code: 2BAR94

CO1: Attain skills related to the conduction of rudimentary research in architecture

CO2: Attain skills related to the writing of a research report

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			

5. Course Name : DISASTER RESILIENT STRUCTURES
Course Code: 2BAR95

CO1: Knowledge with respect to disaster resilience at building and neighbourhood level

CO2: skills with respect to disaster resilience at building and neighbourhood level

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*	*	*	*		*	*		*	*
CO2	*	*		*	*	*		*	*		*

6. Course Name : LANDSCAPE ARCHITECTURE
Course Code: 2BAR97

CO1: Acquire knowledge and skills related to landscape design.

CO2: Understand landscape design as a tool to enhance architecture .

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*		*	*	*	*	*

7. Course Name : ELECTIVE V- Participatory Design
Course Code: 2BAR925

CO1: To understand the key concepts of user-centered design, participatory design and co-design
CO2: To appropriately select methodologies to gather and evaluate users' ideas and context in order to answer a design question

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*		*
CO2		*	*	*	*		*	*		*	*

8. Course Name : MID SEMESTER WORKSHOP VIII
Course Code: 2BAR99

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

TENTH SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN PROJECT(THESIS)**
   Course Code: 2BAR101

CO1: Design a building in a comprehensive manner similar to what happens in architectural practice.

CO2: To impart the skill of developing a brief for a design project based on the requirements of the client

CO3: To impart the ability to understand the statutory requirements of the corporation/ municipality etc and follow the byelaws applicable to the given site

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*	*	*				*	*		*
CO2					*	*	*	*		*	*
CO3	*	*				*	*	*	*	*	

CMR UNIVERSITY
Private University Established in Karnataka State by Act No. 46 of 2013

1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

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List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the "POs, PSOs, PEOs" document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2ENRB1011

CO1: Grasp various visual and spatial design principles through 2D illustrations and 3D models based explorations
CO2: Conceive three dimensional spaces with architectural drawings and models.
CO3: Conceive space making with reference to Anthropometry

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : Fundamental of Building Science I**
   Course Code: 2ENRB1021

CO1: Understand the use of fundamental construction materials required for each building element.
CO2. Understand the interrelationship between material and structure.
CO3. Identify building elements and their assemblies at multiple levels of a wall section; starting from foundation to roof.
CO4. Be able to represent and nomenclate a particular building component in terms of building construction drawing requirements.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*		*		*	*			*	*

3. Course Name : History of Architecture I

Course Code: 2ENRB1031

CO1: Understand relation between society and built environment
CO2: Understand Architecture is a cultural construct and an expression of a culture's underlying value systems.
CO3: Understand planning, Construction and Ornamentation of Buildings of Early Civilizations.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

4. Course Name : GRAPHICS I

Course Code: 2ENRB1041

CO1: Develop the skill of manual drawing through plane geometry, scales, orthographic projection and three dimensional representation.
CO2: Experimenting with different mediums like pen, pencil and colours as a part of visual representation.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*			*		*	*	
CO2	*		*	*						*	

5. Course Name : FOUNDATION WORKSHOP I

Course Code: 2ENRB1051

CO1: Develop receptive skills and sensitivity towards the nature of materials
CO2: Develop receptive skills and sensitivity towards function of tools, and processes or methods.
CO3: Abstract and manifest observations into interpretations.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : MID SEMESTER WORKSHOP I

Course Code: 2ENRB1061

CO1: Apply hands-on field skills in specialised areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

7. Course Name : ART APPRECIATION

Course Code: CKSMA1091

CO1: The students will be able to appreciate various forms of Art and understand their influences on Architectural Design

CO2: Think in visual terms to obtain a command over the various art mediums - spatial, visual, performative

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1		*			*				*		
CO2	*		*							*	

SECOND SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN II**
   Course Code: 2ENRB1071

CO1: Understand the process of form generation from nature / natural objects
CO2: Decipher the process of form finding with reference to materials (Bamboo / Timber / Stone)
CO3: Integrate knowledge of form finding with spatial attributes
CO4: Explore space making for simple functions associated with smaller group of people / family

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*			*			*			*

2. **Course Name : FUNDAMENTALS OF BUILDING SCIENCE II**
   Course Code: 2ENRB1081

CO1: Understand the basics of Timber Construction in medium span roof structures
CO2: Understanding the covering materials and elements like doors and windows in timber
CO3: Understanding roofs in timber with clay tiles

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. **Course Name : History of Architecture II**
   Course Code: 2ENRB1091

CO1: Critically understand

the fundamental principles of Space Making
CO2: Provide an insight into the ideas of influential architectural theorists from antiquity
CO3: Understand architecture as a response to material, climate, socio-cultural systems

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*			*	*	*	
CO2	*				*						
CO3	*							*	*		*

4. Course Name : GRAPHICS II
Course Code: 2ENRB1101

CO1:Understand and draw two dimensional projections of simple objects.
CO2:Understand and draw two dimensional projections of complex objects.
CO3:Understand and draw three dimensional views of simple and complex objects.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*			*			*
CO2	*			*	*			*			*
CO3	*				*		*	*	*		*

5. Course Name : STRUCTURES II
Course Code: 2ENRB1111

CO1: Understand the basic concepts of mechanics.

CO2: Understand the behaviour of steel and concrete under different loading conditions.
CO3: Understand the fundamental concepts of stress, strain and elastic constants.
CO4: Understand the determination of bending and shear stresses, a prime parameter to analyse the strength of the structural element.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*				*		
CO2	*			*							
CO3	*			*					*		*
CO4	*			*	*						*

6. Course Name : MID SEMESTER WORKSHOP - II
Course Code: 2ENRB1121

CO1: Apply hands-on field skills in specialised areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

7. Course Name : Critical Inquiry (CIY)
Course Code: CKSMM1012

CO1: Examine their own of thinking and apply critical inquiry in dealing with their day-to day life challenges (Lv
5)
CO2: Investigate into the origins and sources of their beliefs and knowledge system (Indian and Western doctrines). (Lv.5)
CO3: Evaluate and implement the methods of logical reasoning in their decision making (Lv-5)
CO4: Construct arguments based on the principles of validity and soundness ()(Lv 6)
CO5: Analyze the value of diverse perspectives and varied interpretation of same information. (Lv.4)

THIRD SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN III**
   Course Code: 2ENRB2011

CO1: Design in response to the context of site and culture.

CO2: Design with response to climate of the region

CO3: Use sketch up as a design tool along with other drafting softwares like Autocad

CO4: Delve into the design of a small scale 'shared' space.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*			*			*			*

2. Course Name : Fundamentals of Building Sciences III

Course Code: 2ENRB2021

CO1: Understand construction practices of RCC Foundations.
CO2: Understand construction practices of RCC Slabs, Beams and Columns.
CO3: Understand construction practices of RCC Vaults and Domes.
CO4: Understand construction practices of RCC Staircases.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	
CO4				*	*			*		*	

3. Course Name : History of Architecture III

Course Code: 2ENRB2031

CO1: Explain the cultural, religious, and socio-political contexts that influenced the development of Indian architecture over time.

CO2: Interpret architectural plans, drawings, and archaeological evidence to reconstruct the historical and cultural contexts of specific historical complexes.

CO3: Evaluate the impact of historical events, such as invasions, migrations, and patronage, on the evolution of architecture in different regions of India.

CO4: Compare and contrast architectural techniques, materials, and construction methods used in

different periods and regions, considering their technological and artistic advancements.
CO5: Recognize key architectural features and elements characteristic of different regional styles and periods.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*			*	*	*	
CO2	*				*						
CO3	*							*	*		*
CO4		*						*		*	
CO5		*			*			*		*	*

4. Course Name : FOUNDATION WORKSHOP II
Course Code: 2ENRB3041

CO1: Understand the correlation of various objects and systems.
CO2 : Document various fabrication processes.
CO3 : Understand the use of appropriate tools, materials and processes via design.
CO4 : Understand, represent and create various joinery details using a range of materials.
CO5: Visualize forms and build simple prototypes.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*
CO5			*	*	*	*	*				*

5. Course Name : STRUCTURES III
Course Code: 2ENRB2051

CO1: Acquire knowledge and skills related to understanding of structural behaviour of columns & beams
CO2: Analyze torsion in structural elements and solve basic problems relevant to architectural design.
CO3: Determine critical loads, slenderness ratios, and apply Euler's and Rankine's equations to ensure structural stability

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

6. Course Name : MID SEMESTER WORKSHOP III
Course Code: 2ENRB2061

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

FOURTH SEMESTER SYLLABUS

1. **Course Name :** **ARCHITECTURAL DESIGN IV**
   Course Code: **2ENRB2071**

CO1: Develop skills of designing residential units and shared spaces within housing communities.

CO2: Develop abilities to design with modularity with respect to spatial as well as material and structural attributes

CO3: Appreciate the role of social and economic theories and issues in the process of designing built environments.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. Course Name : FUNDAMENTALS OF BUILDING SCIENCES - IV
Course Code: 2ENRB2081

CO1: Understand the working and construction of large span roofs and slabs in RCC.
CO2: Understand the construction and details of various openings such as doors, windows, sliding doors etc. in steel and aluminium.
CO3: Understand the construction and details of various openings such as doors, windows, sliding doors etc. in UPVC.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. Course Name : HISTORY OF ARCHITECTURE IV
Course Code: 2ENRB2091

CO1: The student will be able to: appreciate the architectural evolution of European Architecture from Renaissance to Modern periods.
CO2: The student will be able to: appreciate the architectural evolution of American Architecture from Renaissance to Modern periods.
CO3: The student will be able to: appreciate The Chicago School Movement.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*			*	*	*	
CO2	*				*						
CO3	*							*	*		*

4. Course Name : STRUCTURES IV
Course Code: 2ENRB2101

CO1: Understand structural behavior of beams and portal frames
CO2: Interpret Shear Force and Bending Moment Diagrams to understand structural behavior under different loading conditions.
CO3: Analyze propped cantilevers, fixed beams, and continuous beams using advanced methods like Clapeyron's Theorem and Moment Distribution.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

5. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2ENRB2111

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

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1. CO PO mapping
2. POs, PSOs, PEOs
3. Vision and Mission Statements
4. CO-PO Mapping - (GNRL)
5. Sample Course Outcomes (ET)

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List of Courses with CO-PO Mapping

N.B. - Please see the POs and PSOs in the "POs, PSOs, PEOs" document in the same folder in which this file is located.

FIRST SEMESTER SYLLABUS

1. **Course Name : Architectural Design I**
   Course Code: 2ENRB1011

CO1: Grasp various visual and spatial design principles through 2D illustrations and 3D models based explorations
CO2: Conceive three dimensional spaces with architectural drawings and models.
CO3: Conceive space making with reference to Anthropometry

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. **Course Name : Fundamental of Building Science I**
   Course Code: 2ENRB1021

CO1: Understand the use of fundamental construction materials required for each building element.
CO2. Understand the interrelationship between material and structure.
CO3. Identify building elements and their assemblies at multiple levels of a wall section; starting from foundation to roof.
CO4. Be able to represent and nomenclate a particular building component in terms of building construction drawing requirements.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*		*		*	*			*	*

3. Course Name : History of Architecture I

Course Code: 2ENRB1031

CO1: Understand relation between society and built environment
CO2: Understand Architecture is a cultural construct and an expression of a culture's underlying value systems.
CO3: Understand planning, Construction and Ornamentation of Buildings of Early Civilizations.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

4. Course Name : GRAPHICS I

Course Code: 2ENRB1041

CO1: Develop the skill of manual drawing through plane geometry, scales, orthographic projection and three dimensional representation.
CO2: Experimenting with different mediums like pen, pencil and colours as a part of visual representation.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*			*		*	*	
CO2	*		*	*						*	

5. Course Name : FOUNDATION WORKSHOP I

Course Code: 2ENRB1051

CO1: Develop receptive skills and sensitivity towards the nature of materials
CO2: Develop receptive skills and sensitivity towards function of tools, and processes or methods.
CO3: Abstract and manifest observations into interpretations.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*					*		
CO2	*	*		*			*		*		
CO3		*	*				*			*	*

6. Course Name : MID SEMESTER WORKSHOP I

Course Code: 2ENRB1061

CO1: Apply hands-on field skills in specialised areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

7. Course Name : ART APPRECIATION

Course Code: CKSMA1091

CO1: The students will be able to appreciate various forms of Art and understand their influences on Architectural Design

CO2: Think in visual terms to obtain a command over the various art mediums - spatial, visual, performative

CO-PO-PSO Mapping											
CO	**PO**								**PSO**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**2**	**3**
CO1		*			*				*		
CO2	*		*							*	

SECOND SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURE DESIGN II**
   Course Code: 2ENRB1071

CO1: Understand the process of form generation from nature / natural objects
CO2: Decipher the process of form finding with reference to materials (Bamboo / Timber / Stone)
CO3: Integrate knowledge of form finding with spatial attributes
CO4: Explore space making for simple functions associated with smaller group of people / family

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*			*			*			*

2. **Course Name : FUNDAMENTALS OF BUILDING SCIENCE II**
   Course Code: 2ENRB1081

CO1: Understand the basics of Timber Construction in medium span roof structures
CO2: Understanding the covering materials and elements like doors and windows in timber
CO3: Understanding roofs in timber with clay tiles

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. **Course Name : History of Architecture II**
   Course Code: 2ENRB1091

CO1: Critically understand

the fundamental principles of Space Making
CO2: Provide an insight into the ideas of influential architectural theorists from antiquity
CO3: Understand architecture as a response to material, climate, socio-cultural systems

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*			*	*	*	
CO2	*				*						
CO3	*							*	*		*

4. Course Name : GRAPHICS II
Course Code: 2ENRB1101

CO1:Understand and draw two dimensional projections of simple objects.
CO2:Understand and draw two dimensional projections of complex objects.
CO3:Understand and draw three dimensional views of simple and complex objects.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*			*			*
CO2	*			*	*			*			*
CO3	*				*		*	*	*		*

5. Course Name : STRUCTURES II
Course Code: 2ENRB1111

CO1: Understand the basic concepts of mechanics.

CO2: Understand the behaviour of steel and concrete under different loading conditions.
CO3: Understand the fundamental concepts of stress, strain and elastic constants.
CO4: Understand the determination of bending and shear stresses, a prime parameter to analyse the strength of the structural element.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*			*	*				*		
CO2	*			*							
CO3	*			*					*		*
CO4	*			*	*						*

6. Course Name : MID SEMESTER WORKSHOP - II
Course Code: 2ENRB1121

CO1: Apply hands-on field skills in specialised areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

7. Course Name : Critical Inquiry (CIY)
Course Code: CKSMM1012

CO1: Examine their own of thinking and apply critical inquiry in dealing with their day-to day life challenges (Lv
5)
CO2: Investigate into the origins and sources of their beliefs and knowledge system (Indian and Western doctrines). (Lv.5)
CO3: Evaluate and implement the methods of logical reasoning in their decision making (Lv-5)
CO4: Construct arguments based on the principles of validity and soundness ()(Lv 6)
CO5: Analyze the value of diverse perspectives and varied interpretation of same information. (Lv.4)

THIRD SEMESTER SYLLABUS

1. **Course Name : ARCHITECTURAL DESIGN III**
   Course Code: 2ENRB2011

CO1: Design in response to the context of site and culture.

CO2: Design with response to climate of the region

CO3: Use sketch up as a design tool along with other drafting softwares like Autocad

CO4: Delve into the design of a small scale 'shared' space.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*
CO4		*			*			*			*

2. Course Name : Fundamentals of Building Sciences III

Course Code: 2ENRB2021

CO1: Understand construction practices of RCC Foundations.
CO2: Understand construction practices of RCC Slabs, Beams and Columns.
CO3: Understand construction practices of RCC Vaults and Domes.
CO4: Understand construction practices of RCC Staircases.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	
CO4				*	*			*		*	

3. Course Name : History of Architecture III

Course Code: 2ENRB2031

CO1: Explain the cultural, religious, and socio-political contexts that influenced the development of Indian architecture over time.

CO2: Interpret architectural plans, drawings, and archaeological evidence to reconstruct the historical and cultural contexts of specific historical complexes.

CO3: Evaluate the impact of historical events, such as invasions, migrations, and patronage, on the evolution of architecture in different regions of India.

CO4: Compare and contrast architectural techniques, materials, and construction methods used in

different periods and regions, considering their technological and artistic advancements.
CO5: Recognize key architectural features and elements characteristic of different regional styles and periods.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*			*	*	*	
CO2	*				*						
CO3	*							*	*		*
CO4		*						*		*	
CO5		*			*			*		*	*

4. Course Name : FOUNDATION WORKSHOP II
Course Code: 2ENRB3041

CO1: Understand the correlation of various objects and systems.
CO2 : Document various fabrication processes.
CO3 : Understand the use of appropriate tools, materials and processes via design.
CO4 : Understand, represent and create various joinery details using a range of materials.
CO5: Visualize forms and build simple prototypes.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*
CO5			*	*	*	*	*				*

5. Course Name : STRUCTURES III
Course Code: 2ENRB2051

CO1: Acquire knowledge and skills related to understanding of structural behaviour of columns & beams
CO2: Analyze torsion in structural elements and solve basic problems relevant to architectural design.
CO3: Determine critical loads, slenderness ratios, and apply Euler's and Rankine's equations to ensure structural stability

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

6. Course Name : MID SEMESTER WORKSHOP III
Course Code: 2ENRB2061

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
C04: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

FOURTH SEMESTER SYLLABUS

1. **Course Name :** **ARCHITECTURAL DESIGN IV**
   Course Code: **2ENRB2071**

CO1: Develop skills of designing residential units and shared spaces within housing communities.

CO2: Develop abilities to design with modularity with respect to spatial as well as material and structural attributes

CO3: Appreciate the role of social and economic theories and issues in the process of designing built environments.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*		*		*					*	
CO3	*		*	*				*	*		*

2. Course Name : FUNDAMENTALS OF BUILDING SCIENCES - IV
Course Code: 2ENRB2081

CO1: Understand the working and construction of large span roofs and slabs in RCC.
CO2: Understand the construction and details of various openings such as doors, windows, sliding doors etc. in steel and aluminium.
CO3: Understand the construction and details of various openings such as doors, windows, sliding doors etc. in UPVC.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*			*	*	*	
CO2	*			*				*	*		
CO3	*	*			*					*	

3. Course Name : HISTORY OF ARCHITECTURE IV
Course Code: 2ENRB2091

CO1: The student will be able to: appreciate the architectural evolution of European Architecture from Renaissance to Modern periods.
CO2: The student will be able to: appreciate the architectural evolution of American Architecture from Renaissance to Modern periods.
CO3: The student will be able to: appreciate The Chicago School Movement.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*			*			*	*	*	
CO2	*				*						
CO3	*							*	*		*

4. Course Name : STRUCTURES IV
Course Code: 2ENRB2101

CO1: Understand structural behavior of beams and portal frames
CO2: Interpret Shear Force and Bending Moment Diagrams to understand structural behavior under different loading conditions.
CO3: Analyze propped cantilevers, fixed beams, and continuous beams using advanced methods like Clapeyron's Theorem and Moment Distribution.

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1		*		*	*				*		
CO2				*	*						
CO3		*			*				*		*

5. Course Name : MID SEMESTER WORKSHOP IV
Course Code: 2ENRB2111

CO1: Apply hands-on field skills in specialized areas related to architecture.
CO2: Collaborate within cross-semester teams to facilitate peer learning.
CO3: Interact and build with makers, artisans and craftspeople; to help sharpen their design skills via interdisciplinary knowledge.
CO4: Appreciate the techno-realities of a design practice through an understanding of materials, building techniques and physical production

CO-PO-PSO Mapping											
CO	PO								PSO		
	1	2	3	4	5	6	7	8	1	2	3
CO1	*	*		*	*	*		*	*	*	
CO2					*	*		*			
CO3	*							*	*	*	
CO4	*	*		*		*		*	*		*

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