

School Of Architecture and Interior Design (SAID), KTR
School Of Architecture, Environment And Design (SEAD), RPM

Faculty of Engineering and Technology

S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY

Lesson Plan – Theory Course

Course Code : 16 AR 101
Course Title : HISTORY OF INDIAN ARCHITECTURE & CULTURE
Year & Semester : B.Arch I year, I semester.
Course time : Odd (July – Nov 2018)
Faculty Details:

Name of the Staff	Designation	Se c.	Office	Mail ID	Mobile No
Ms.Roshanara	Visiting faculty	B	SAID	roshanara.k@ktr.srmuniv.ac.in	9840192111
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Required Text Books:

1. Percy Brown, Indian Architecture (Islamic Period) - Taraporevala and Sons, Bombay, 1983
2. Satish Grover, The Architecture of India (Buddhist and Hindu period), Vikas Publishing House, New Delhi, 1981
3. Satish Grover, The Architecture of India (Islamic) Vikas Publishing House Pvt. Ltd., New Delhi, 1981.
4. Christopher Tadgell, The History of Architecture in India, Longman Group, U.K. Ltd., London, 1990
5. A.Volvahsen, Living Architecture - India (Buddhist and Hindu), Oxford and IBM, London, 1969.
6. George Mitchell, Monuments of India, Vol I, Buddhist, Jain, Hindu; Penguin books, 1990
7. Gateway to Indian Architecture, Guruswamy Vaidyanathan, Edifice Publication, 2003
8. Architecture of the Islamic World - George Michell - (its history and social meaning), Thames and Hudson, London, 1978.
9. Islamic Architecture, Form, Function and Meaning, Robert Hillenbrand, Edinburgh University Press, 1994

Tentative Assessment Dates

Midterm Test : 11/09/2018 – 18/09/2018
Model Examination : 12/10/2018 – 17/10/2018

Assessment Portions:

Midterm Test : First Two And A Half Units

Model Examination : All Five Units
Assessment Details
 Midterm Test : 25 Marks
 Model Examination : 25 Marks

S.No	Assignment Topics	Tentative Dates
1	Sketches of topics in unit 1 and 2	11/09/2018 – 18/09/2018
2	Sketches of topics in unit 3,4 and 5	12/10/2018 – 17/10/2018

DETAILED SESSION PLAN

Total No. of Hour given in Syllabus: 45

Units	Hours	Topics To be covered	Reference Book Name	Page No
1		BUDDHIST ARCHITECTURE & EVOLUTION OF THE HINDU TEMPLE		
	1	Introduction to history & culture in India from Indus valley civilization, through Vedic culture, its rudimentary forms and their traces in later development in built form. Formation of Buddhist culture in India.	Satish Grover, The Architecture of India (Buddhist and Hindu period)	1-21
	2	Phrases in Buddhism. Formation and contribution of Ashoka's, school of art and architecture. (example – Ashoka pillar at Sarnath)		21-32
	3	Example – Stupa at Sanchi – concept, planning, material and construction details.		37-43
	4	Evolution of Chaitya halls and Viharas- under structural and rock cut types. Explanation of rock cut architecture on western & eastern ghats of India		45-58
	5	Rock cut example of Chaitya hall at karli – concept, planning, highlighting the details of - column, roof and sun window. Example of Vihara at Nasik.	Ancient Indian Architecture by Sanjeev Maheshwari	63-67
	6	Evolution of Hindu temples under Gupta's and Chalukya's Examples of early shrines of the Gupta and Chalukyan periods - Tigawa temple and Ladh Khan temple.	Satish Grover, The Architecture of India (Buddhist and Hindu period)	79-84
	7	Development of Hindu temples under Indo-Aryan and Dravidian style at Aihole, Pattadakal. Explanation of Papanath temple architectural details - under Indo Aryan style.	Ancient Indian Architecture by Sanjeev Maheshwari	119-127
	8	Explanation of Virupaksha temple- architectural detail- under Dravidian style.	Satish Grover, The	113-115

		style.	Maheshwari	
	8	Explanation of Virupaksha temple- architectural detail- under Dravidian style.	Satish Grover, The Architecture of India (Buddhist	113-115
2		DRAVIDIAN STYLE TEMPLES		
	9	Dravidian Style under Pallava dynasty. Rock cut and structural type of architectural contributions of Pallavas. Types of architectural structure - Mandapas & Rathas & Masonry temples.	Satish Grover, The Architecture of India (Buddhist and Hindu period),	99-102
	10 & 11	Examples of Rock cut architecture- - Mandapas & Rathas at Mahabalipuram Varaha mantapa & Five rathas.		102-108
	12	Examples of structural architecture-- Shore temple at Mahabalipuram (concept, planning and social relevance)		109-110
	13	Examples of structural architecture- Kailasanathar temple at Kanchipuram. (concept, planning and architectural details)		114
	14	Evolution of Dravidian Orders under Chola,		193-202
	15	Example of Chola style - Brihadeeswara temple at Tanjore (concept, planning and architectural details)		
	16	Evolution of Dravidian Orders under Pandiyas (various types of columns) Evolution of Gopuram's under Pandiyas (types of gopurams and their principle characteristics)		224-230
	17 & 18	Evolution of temple complex under Pandyan style - example of Meenakshi Amman temple, Madurai. (concept, planning and architectural details)		
	19 & 20	Midterm test		

3		INDO-ARYAN STYLE OF TEMPLES		
	21	Evolution of Indo Aryan Temple through various phrases in Orrisa.	Satish Grover, The Architecture of India (Buddhist and Hindu period),	142-143
	22	Evolution of indo Aryan temple at Orissa - over two phases (early & later) - Lingaraja temple at Bhuvaneshwar. (concept, planning and architectural details incorporation of addition)		143-145,157-158
	23	Evolution of indo Aryan temple of later phrase - Sun temple at Konarak, Orrisa. (concept, planning and architectural details)		181-185
	24	Evolution & characteristics of Indo Aryan Temple in Central India.		186-189
	25 & 26	Example Khandarya Mahadev temple at Khajuraho. (concept, planning and architectural details)	Ancient Indian Architecture by Sanjeev Maheshwari	175-178
4		ISLAMIC ARCHITECTURE – IMPERIAL & PROVINCIAL		

		STYLES				
	27	Introduction to Islamic architecture in India. - Influences and contributions of Islamic architecture to India.		1-5		
	28	Contribution to Imperial style by various dynasties – Contribution to imperial style by slave dynasty – characteristics of style. squinch arches & Qutb complex layout planning		6-7		
	29	Example (Slave dynasty) –, qutb minar, (concept, planning, architectural details, materials and principles). Alai darwaza. (planning, architectural details, dome & materials)		8-11, 20-22		
	30	Example (Tughlaq dynasty) - Tomb of Ghiasuddin Tughlaq (concept, planning, architectural details, materials)		23-26		
	31	Example (Lodi dynasty) - Evolution of garden concept & example - Lodi garden at Delhi.		107- 108		
	32	Development of the provincial styles in different regions – Punjab, Bengal, Gujarat, and Deccan (Bijapur & Charminar), their characteristics and materials	Satish Grover, The Architecture of India (Islamic)	63-103		
	33	Examples - Punjab style - Tomb of shah Rukni Alam - (concept, planning, architectural details, materials)				
	34	Examples – Bengal style - Chota sona masjid at Gaur - (concept, planning, architectural details, materials)				
	35	Examples – Gujarat style - Jami masjid at Ahmadabad - (concept, planning, architectural details, materials)				
	36	Examples – Deccan style (Bijapur) - Golgumbaz - (concept, planning, architectural details, materials) – Deccan style (Charminar Hyderabad.) – Char minar -(concept, planning, architectural details, materials)				
5		MUGHAL ARCHITECTURE				
	37	Brief introduction to Mughal rulers and their contribution to architecture (Babur, Humayun, Akbar, Jahangir, Shahjahan and Aurangzeb) – characteristics of Mughall style.			Satish Grover, The Architecture of India (Islamic)	105- 125
	38	Contribution of Humayun – example - Humayun' tomb, New Delhi. (concept, planning, architectural details, materials)	122- 125			
	39& 40	Contribution of Akbar - Akbars Tomb at Sikandara. Fatehpur Sikhri fort. (concept, zoning, planning, various structures with in the fort (example- Buland darwaza, Diwani Khas, Tomb of Salim Chisti,) their architectural details, construction method & materials)	128- 151			
	41&42	Contribution of Shahjahan –example - The Taj Mahal, at Agra, (concept, zoning, planning principles, ,and landscape planning and architectural details)	153- 173			
	43&44	Contribution of shahjahan –example – Red fort at New Delhi, (concept, zoning, planning, various structures with in the fort (example- Diwan-i- Aam, Diwani khas, Mumtaz mahal and Rang mahal) their architectural details, construction method & materials)				
	45 hours	Revision				

Faculty in Charge

VP(Academics)/SEAD
Dr. Devyani Gangopadhyay

HOD/SAID
Prof. CT. Lakshmanan

Ms. Roshanara Visiting Faculty (KTR) *for Roshanara*
Ms. Ankita Vernekar Asst Prof (KTR) *Ankita*
Ms. G. Thulasi Asst Prof (RPM) *Thulasi Gopal*
Ms. Srivani Asst Prof (RPM) *for Thulasi Gopal*

COURSE SYLLABUS

		L	T	P	C
16AR 101	HISTORY OF INDIAN ARCHITECTURE & CULTURE	3	0	0	3
	Prerequisite - Nil				

OBJECTIVES

- To impart knowledge of evolution with regarding to Indian architecture, in India as this is an integrated expression of art, culture, vernacular material and techniques of the place.
- To influence the architecture students to develop designs that are rooted in this country and suitable to the lifestyle of its people.
- To develop an appreciation of our varied culture and the resulting architectural productions which are unique in time and place.

UNIT-1 BUDDHIST ARCHITECTURE & EVOLUTION OF THE HINDU TEMPLE

8

Evolution of Ashoka's School of art and architecture - Examples - Ashokan Pillar at Sarnath and Sanchi stupa. Chaitya hall and Vihara - Buddhist rock cut architecture Examples - Chaitya hall at Karli, Viharas at Nasik. Evolution of Hindu Temple - Early shrines of the Gupta and Chalukyan periods - Tigawa temple and Ladh Khan temple - Development of the Indo-Aryan & Dravidian style - Examples - Papanatha and Virupaksha temple at Pattadakal.

UNIT-2 DRAVIDIAN STYLE TEMPLES

10

Dravidian style - Definition / explanation of Mandapas & Rathas. Masonry temples & Rock cut architecture of Pallavas - Shore temple and five rathas at Mahabalipuram and Kailasanathar temple at Kanchipuram - Dravidian Orders - evolution of Dravidian orders under pallavas, chola's and pandya's. Example of Chola style - Brihadeeswara temple at Tanjore - Evolution of Gopuram & temple complexes - Example of Pandyan style - Meenakshi amman temple, Madurai.

UNIT-3 INDO-ARYAN STYLE OF TEMPLES

8

Classification of Indo-aryan temples, Salient features of an Indo Aryan Temple - Examples of Orissa style - Lingaraja temple at Bhuvaneshwar & Sun temple at Konarak - Example of Madhya style - Khandarya Mahadev temple at Khajuraho - Example of Gujarat style - Surya Temple at Modhera.

UNIT-4 ISLAMIC ARCHITECTURE

10

Classification of Islamic architecture in Indian, religious and secular typologies of Islamic architecture Features of an Indian mosque, concept of squinch arches, and its variation. Examples under imperial style - Qutb Complex, qutb minar and Alai Darwaza at Delhi - Tomb of Ghiasuddin Tughlaq, Lodi garden at Delhi. Characteristics of the provincial styles in different regions through examples - Punjab style - Tomb of Shah Rukni Alam - Bengal style - Chota sona masjid at Gaur - Gujarat style - Jami masjid at Ahmadabad - Deccan style - Golgumbaz at Bijapur and Charminar at Hyderabad.

UNIT-5 MUGHAL ARCHITECTURE

9

Characteristics of Mughal architecture, planning, dome construction, materials. Development of the Mughal style under different rulers - Humayun- Humayun's Tomb at Delhi, Akbar- examples - Fatehpur Sikhri (planning, Buland darwaza, Diwani Khas, Tomb of Salim Chisti) and Akbar's Tomb at Sikandara. Shahjahan - examples - The Taj Mahal, at Agra - Red Fort at Delhi (Diwan-i Aam, Diwani khas, Mumtaz mahal and Rang mahal).

TOTAL HOURS:45 HOURS