SL.No	Subjects Code	Subjects Title	Subject Area	Credit
		Department of Architecture and Planning		
1.	MAN-001	Mathematics-1	BSC	4
2.	ARN-103	Introduction to Architecture	DCC	2
3.	ARN-105	Architectural Graphics-I	DCC	4
4.	ARN-107	Basic Design and Creative Workshop-I	DCC	4
5.	HS-001A	Communication Skills (Basic)	HSSC	2
6.	HS-001B	Communication Skills (Advance)	HSSC	2
7.	HSN-002	Ethics and General Awareness	HSSC	2
8.	CEN-105	Introduction to Environmental Science	GSC	3
9.	ARN-101	Introduction to Architecture	DCC	2
10.	ARN-102	Architectural Design-I	DCC	4
11.	ARN-104	Introduction to Building Materials Construction I	DCC	4
12.	ARN-106	Architectural Graphics -II	DCC	4
13.	ARN-108	Climatology in Architecture	DCC	4
14.	ARN-110	Visual Art and Creative Workshop - II	DCC	4
15.	ARN-112	Computer Systems and Programming	ESC	4
16.	ARN-201	Architectural Design-II	DCC	5
17.	ARN-202	Architectural Design-III	DCC	5
18.	ARN-203	Building Construction II	DCC	4
19.	ARN-204	Building Construction - III	DCC	4
20.	ARN-205	History of Architecture-I	DCC	4
21.	ARN-206	History of Architecture-II	DCC	3
22.	ARN-207	Quantity , Pricing and Specifications	DCC	3

23.	ARN-208	Building Codes and Regulations	DCC	2
24.	ARN-209	Structure and Architecture	DCC	3
25.	ARN-210	Modern World Architecture	DCC	3
26.	ARN-211	Principles of Architecture	DCC	3
27.	ARN-212	Landscape Design and Site Development	DCC	3
28.	ARN-213	Measured Drawing Camp	DCC	2
29.	ARN-301	Architectural Design-IV	DCC	5
30.	ARN-302	Architectural Design-V	DCC	5
31.	ARN-303	Building Construction IV	DCC	4
32.	ARN-305	Computer Applications in Architecture	DCC	2
33.	ARN-310	Building Technology- Mechanical and Electrica	ESC	4
34.	ARN-401	Architectural Design-VI	DCC	5
35.	ARN-402	Professional Training	DCC	10
36.	ARN-403	Urban Design	DCC	4
37.	ARN-405	Sustainable Architecture	DCC	4
38.	ARN-407	Working Drawing	DCC	2
39.	ARN-415	Live Project / Studio / Seminar- I	DCC	2
40.	ARN-501	Architectural Design-VII	DCC	5
41.	ARN-502	Professional Practice, Valuation and Arbitration	DCC	4
42.	ARN-503	Thesis Project-I	DCC	6
43.	ARN-504	Thesis Project – II	DCC	15
44.	ARN-505	Urban Planning	DCC	4
45.	ARN-507	Hill Architecture	DCC	3

46.	ARN-515	Live Project / Studio / Seminar – II	DCC	2
47.	CEN-192	Geomatics Techniques for Architects	ESC	3
48.	CEN-292	Theory of Structures	DCC	4
49.	CEN-391	Design of Reinforced Concrete Elements	ESC	4
50.	CEN-392	Design of Steel Elements	ESC	3
51.	CEN-394	BUILDING SERVICES	DCC	2
52.	HSN-351	Society, Culture and Built Environment	HSSMEC	3
53.	HSN-352	Building Economics	HSSMEC	3

Department Elective-I				
1	AR- 307	Interior Design	DEC	3
2.	AR -309	Applied Arts	DEC	3
3.	AR -311	Modern Indian Architecture	DEC	3
Department Elective-II				
1.	AR- 304	Acoustics and Lighting	DEC	3
2.	AR -306	Vernacular Architecture	DEC	3
3.	AR -308	High-rise Building	DEC	3
Department Elective-III				
1.	AR- 409	Digital Architecture	DEC	3
2.	AR -411	Ekistics	DEC	3
3.	AR -413	Construction Planning and Management	DEC	3
Department Elective-IV				
1.	AR- 509	Emerging Technologies in Architecture	DEC	3

2.	AR -511	Disaster Resistant Buildings	DEC	3
3.	AR -513	Vastushastra	DEC	3
Department Elective-V				
1.	AR- 506	Housing	DEC	3
2.	AR -508	Architectural Research and Journalism	DEC	3
3.	AR -510	Architectural and Urban Conservation	DEC	3

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
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NAME OF DEPARTMENT.**:**   **Architecture and Planning**

1.   Subject Code: **ARN-101**   Course Title: **Introduction to Architecture**

2.   Contact Hours: **L: 1**   **T: 0**   **P: 2**

3.   Examination Duration (Hrs):   **Theory :0**   **Practical** :0

4.   Relative Weightage: **CWS 100**   **PRS 0**   **MTE 0**   **ETE 0**   **PRE 0**

5.   Credits : **2**

 6.   Semester: **Autumn**   7.   Subject Area: **DCC**   8.   Pre-requisite: **Nil**

9.   Objective: to provide an comprehensive understanding of Architecture and help students to develop an active interest in the field of study.

10.   Details of Course:

S. No.	Contents	Contact Hours
1.	**Understanding Architecture**: Definitions, interpretations and explanations; distinctive aspects of architecture, Architecture as a fine art, a technological field and as a profession; Language and medium of architecture.	**3**
2.	**The inter-linkages between Architecture, Nature and Culture**: The concepts of Nature and Environment as systems and Architecture and Culture as sub-systems; Architecture as manifestation of culture; Traditional and vernacular architecture; Design as a theme in nature and architecture.	**2**
3.	**Architectural Education** Curricular framework and content of architectural education; Similarities and differences between engineering disciplines and architecture. Specializations in architectural education and profession; Requirements and qualities of a student of architecture.	**3**
4.	**Architecture as a profession:** Unique aspects of architectural profession; Nature of job of an architect and the services provided by him; Role, responsibilities and essential qualities of an architect; Related professions. Distinctive institutions of education and profession in India and abroad; Architectural challenges within and outside India.	**3**
5.	**Well kno wn ar chitects an d ar chitectural w ork**; Indian and international examples of architectural works of famous architects. **Architectural con tribution t o current en vironmental an d development contexts**. Innovations in architecture.	**3**

		Total	14

11.   Suggested Books:

S. No.	Name of Authors/ Books/ Publishers	Year of Publication/ Reprint
1	Shephen Gardiner**, *Introduction to Architecture*, Reed International Books Ltd.	**2004**
2	Hazel Conway & Rowan Roenisch, *Understanding Architecture,* Routledge, London	**1994**
3	Eugene Ruskin, A.I.A, *Architecture and People*, Prentice Hall, inc	**1974**
4	J.M.Richards, *The Professions: Architecture,* Newton Abott Ltd., Great Britain	**1974**
5	*The Illustrated book of Architects and Architecture*, Edited by Mike Darton	**1990**
6	Christopher Benninger, *Letters to A Young Architect*, CCBA Pvt. Ltd.	**2011**