



# UNIVERSITY OF JAMMU

## NOTIFICATION

(18/Aug/Adp/54)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Competent Bodies, has been pleased to authorize the adoption of the Syllabi and Courses of Studies in the subject of Architecture (**B. Arch. Degree Programme**) for Semester III & IV from the Academic Session 2018-19 as per the details given in the ANNEXURE (Pages 01 to 23)

The Syllabi and Courses of Studies B.Arch. are available on the University Website:  
[www.jammuuniversity.in](http://www.jammuuniversity.in).

Sd/-  
**DEAN ACADEMIC AFFAIRS**

No. F.Acd/III/18/8988 - 8997  
Dated: 24/08/2018

### Copy for information & necessary action to:-

1. Special Secretary to the Vice-Chancellor, University of Jammu for the kind information of the Vice-Chancellor please
2. Sr. PA to the Dean Academic Affairs/Registrar/Controller of Examinations
3. Dean Faculty of Mathematical Sciences, University of Jammu
4. Principal, M.A.M. College, Jammu
5. Deputy/Assistant Registrar (Exams/Confidential)
6. Section Officer (Confidential)
7. Incharge Website

  
Assistant Registrar (Academic)

24/08/18  
24/08/18

Revision No. 001  
Revised on 01-08-2018

# B. ARCH - Syllabus

## IIIrd Year (Foundation Studies)

Semester	Subject	Subject Code	Method	Scheme
Semester 3 ODD	Architecture Design Studio I	FS223ADS1	DS/ CC	S
	History of Architecture III	FS223HOA3	CC	T
	Documentation of Design I	FS223DOD1	DS/ CC	S
	Building Construction & Technology I	FS223BCT1	DS/ CC	T
	Building Materials & Technology I	FS223BMT1	DS/ CC	T
	Building Systems & Management I	FS223BSM1	DS/ CC	T
	Theory of Structures I	FS223TOS1	DS/ CC	T
	Model Making Practices III	FS223MMP3	DS/ CC	S
	Software Systems & Applications II	FS223SSA2	SS	P
Semester 4 EVEN	Architecture Design Studio II	FS224ADS2	DS/ CC	S
	History of Architecture IV	FS224HOA4	CC	T
	Documentation of Design II	FS224DOD2	DS/ CC	S
	Building Construction & Technology II	FS224BCT2	DS/ CC	T
	Building Materials & Technology II	FS224BMT2	DS/ CC	T
	Building Systems & Management II	FS224BSM2	DS/ CC	T
	Theory of Structures II	FS224TOS2	DS/ CC	T
	Model Making Practices IV	FS224MMP4	DS/ CC	S
	Software Systems & Applications III	FS224SSA3	SS	P

*R. S. S.*

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*Amal K. S.*

## SYLLABUS FOR DIFFERENT COURSEWORKS (THIRD SEMESTER)

### 1. Course: ARCHITECTURE DESIGN STUDIO I (FS223ADS1)

**Course Intent:**

Being the heart and soul of Architecture course on the whole, this course provides the framework to learn essential techniques for the production of spaces as well as important strategies in critical and analytical thinking. The course introduces students to all aspects of design which serve as a common knowledge base critical to the practice of architecture.

A constraint-based process is used to inform a series of both two-dimensional and three-dimensional exercises. Students gain an understanding of the design process; develop an understanding of our relationships to space, form, sequence and the environment; undergo rigorous research and iterative design; and develop strategies for translating concepts into spatial solutions.

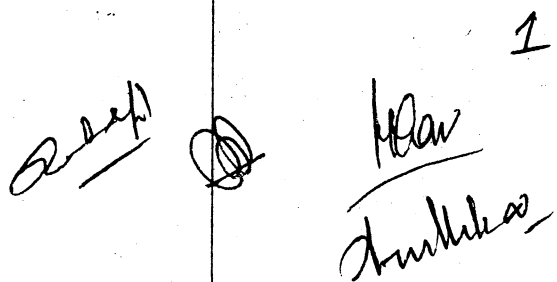
**Course Outcomes:**

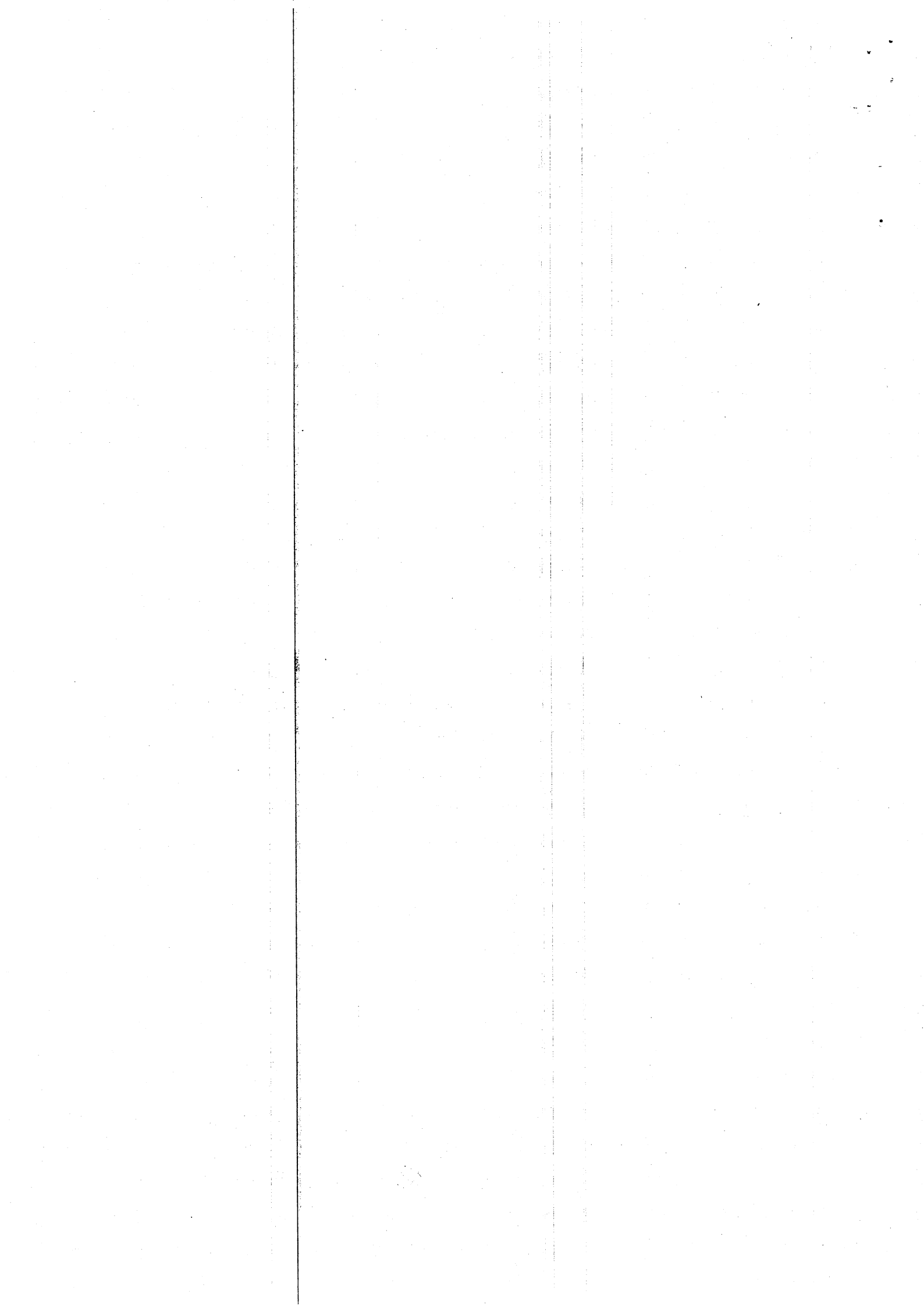
- Will develop spatial thinking and skills necessary for the analysis and design of architectural space and form
- Will help students understand architectural enclosures as mediating between people and the outside world.
- Will understand and learn the integration of different aspects of design with an objective of bettering the design solution
- Will gain exposure to design thinking processes including envisioning, planning and various forms of analysis all of which help shape a robust problem statement that forward design innovation
- Will enable to work cooperatively as part of a team and take a leadership role when required
- Will demonstrate basic competence in architectural design

Course Code	Course Semester	Course Scheme	Scheme Pattern	Evaluation Method	Evaluation Pattern	Marks Distribution
FS223ADS1	Semester 3	Studio	SBP/ECA or Combination	Internal	CA	20
					CP	5
					CC	5
					OW	5
					MT	15
			SBP/ECA/EVV or Combination	External	ET	50
<b>TOTAL COURSE MARKS</b>						<b>100</b>

**Course Content:**

This design studio sequence shall be Human Centered. It is designed to develop students' abilities and skills for assessing user needs, developing building programs and creating meaningful architectural design solutions. In this course, students solve simple architectural design problems like layouts of KITCHEN/ TOILET/ BEDROOM/ DINING ROOM/ LIVING ROOM, etc. with special focus on ergonomics and anthropometry. The course concentrates on the ways in which basic human factors affect and inform architectural design. Lectures include topics such as ergonomics, anthropometry and behavioral aspects of design and human aspiration.





**Books to Refer:**

1. Architect's Data by Ernst Neufert, Peter Neufert, Johannes Kister
2. Human Dimension and Interior Space: A Source Book of Design Reference Standards by Julius Panero, Martin Zelnik
3. Human Factors and Ergonomics Design Handbook, Third Edition by Barry Tillman, David J. Fitts, Rhonda Rose-Sundholm, Peggy Tillman
4. Architect's Pocket Book of Kitchen Design by Charlotte Baden-Powell
5. Room and Furniture Layout Kit by Muncie Hendler

**NOTE FOR COURSE FACULTY/ CO-ORDINATOR:**

The Faculty/ Course Co-ordinator is free to conduct the course as per his/ her individual approach which may include but not limited to collaboration with other subject faculty, engaging an additional faculty for assistance, engagement of Industry experts for Lectures, use of Studio-based exercises, Audio-Visual inputs, use of Library, use of Internet, taking students for Field-work and Construction sites, etc. The Faculty/ Course Co-ordinator will ensure that whatever is being taught to the students falls strictly within the purview of "Architecture" and not outside it.

Please note that for all external support, proper permissions have to taken as per the protocol.

**NOTE FOR PAPER SETTING AND EVALUATION:**

Maximum course marks are 100 to be distributed as:

**(A) INTERNAL (50 MARKS)**

**1. Class Assignments (CA) ~ 20 Marks**

Minimum three assignments are mandatory; the final marking will be done as average of the marks scored by the student in all the assignments. Late submissions will not be accepted without an officially documented excuse. Marks up to 20% will be deducted for late submission.

**2. Class Presence (CP): 5 Marks**

This is based purely on the class attendance record of the student. To be marked strictly as per the Evaluation Pattern.

**3. Class Contribution (CC) – 5 Marks**

Consisting of student's contribution in class work, initiatives and leads during group work, etc. (and not attendance). This is based purely on the judgement of the Faculty vis-à-vis daily interaction with the students.

**4. Outstanding Work (OW) – 5 Marks**

This will be based purely on the judgement of the Faculty vis-à-vis quality of the work as expected by the faculty from the students.

**5. Mid-Term (MT) – 15 Marks**

Consisting of Studio Based Project/ Exhibition of Class Assignments or Combination thereof to be prepared/ conducted/ assessed by Internal Faculty/ Internal Jury/ Internal Examiner.

**The Faculty is free to develop any marking pattern but the final marks awarded shall be strictly as per the prescribed Marks Distribution format.**

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**(B) EXTERNAL (50 MARKS)**

**1. End-Term (ET) – 50 Marks**

Consisting of Studio Based Project/ Exhibition of Class Assignments/ External Viva Voce or Combination thereof to be prepared/ conducted/ assessed by External Jury/ External Examiner as approved by the University.

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**2. Course: HISTORY OF ARCHITECTURE III (FS223HOA3)**

**Course Intent:**

This course captures the most important "Architectural Moments" in the historical background. It explores various facets of cultural, religious and traditional rituals that influenced the styles and practice of architecture around the world, although the main focus remains on Indian Architecture.

**Course Outcomes:**

Will introduce students to the historic background of different cultures and traditions in context to world architecture

Will create awareness about the technological advancements that significantly impacted the architectural development around the world

Will enable students to analyze what was appropriate and what was inappropriate in context with the world architecture

Course Code	Course Semester	Course Scheme	Scheme Pattern	Evaluation Method	Evaluation Pattern	Marks Distribution
FS223HOA3	Semester 3	Theory	MCQ/LAT/SAT or Combination	Internal	CA	20
					CP	5
					CC	5
					OW	5
					MT	15
			MCQ/LAT/SAT/SBP/ECA/EVV or Combination	External	ET	50
<b>TOTAL COURSE MARKS</b>						<b>100</b>

**Course Content:**

**INDIAN ARCHITECTURE:**

Colonial Architecture with backdrop of science and technology, commerce and urbanization during the Industrial Revolution in England; architecture of Victoria Terminus; Cantonments & Bungalows like Raj Bhavan at Kolkata, the Senate House at Baroda University, the Rashtrapati Bhavan at New Delhi, the Gateway of India at Mumbai, Garrison Church of St. Martin at Delhi, Lalbhai House at Mumbai, Bombay Mutual Building, Golconde, Aurobindo Ashram at Pondicherry

Contemporary Architecture with focus on the buildings of Chandigarh like the Secretariat, Assembly & High Court at Chandigarh, Post Graduate Institute of Medical Research & Education, Punjab Engineering College, Tagore Theater; buildings at New Delhi like Sri Ram Center, Rabindra Bhavan, Azad Bhavan, Hall of Nations at Pragati Maidan; Institutional buildings like the Tata Institute of Social Sciences at Mumbai, IIT Kanpur, IIM Ahmedabad, IIM Bangalore; Industrial buildings like R&D Building Semi-Conductor Complex at Chandigarh. Industrial Projects for Escorts at Faridabad, Canteen for Mill workers at Ahmedabad; High rise buildings like Express Tower at Mumbai, Kanchanjunga Apartments at Mumbai, Ashoka Estate at New Delhi. Cultural resonance in Architecture with focus on Vidhan Bhavan at Bhopal; Kalakshetra Theater at Chennai; Vidhan Soudha at Bangalore; Gandhi Smarak Sangrahalaya at Ahmedabad; Sangath at Ahmedabad; Hotel Cida De Goa at Panjim; Asiad Village at Delhi; YMCA Staff Quarters at New Delhi.

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**Books to Refer:**

1. Sir Banister Fletcher's A History Of Architecture By Banister Fletcher
2. Concise History Of Modern Architecture In India By Lang, Jon
3. Architecture In India Since 1990 By Rahul Mehrotra
4. Vistara: The Architecture of India, edited by Carmen Kaigal

**NOTE FOR COURSE FACULTY/ CO-ORDINATOR:**

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**NOTE FOR PAPER SETTING AND EVALUATION:**

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**1. Class Assignments (CA) – 20 Marks**

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**2. Class Presence (CP) – 5 Marks**

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**4. Outstanding Work (OW) – 5 Marks**

This will be based purely on the judgement of the Faculty vis-à-vis quality of the work as expected by the faculty from the students.

**5. Mid-Term (MT) – 15 Marks**

Consisting of Multiple Choice Questions (MCQ)/ Long Answer Type Questions (LAT)/ Short Answer Type Questions (SAT) or Combination thereof.

**The Faculty is free to develop any marking pattern but the final marks awarded shall be strictly as per the prescribed Marks Distribution format.**

**(B) EXTERNAL (50 MARKS)**

**1. End-Term (ET) – 50 Marks**

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**3. Course: DOCUMENTATION OF DESIGN I (FS223DOD1)**

**Course Intent:**

This course enables a better understanding of documentation of design in the form of drawings, specifications and schedules. It also gives insight into bidding procedures and contracts.

**Course Outcomes:**

To understand the documents required from conception to completion of a design project  
 To be able to prepare and comprehend the drawings and documents  
 To be able to write specifications and other contract documents

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FS223DOD1	Semester 3	Studio	SBP/ECA or Combination	Internal	CA	20
					CP	5
					CC	5
					OW	5
					MT	15
			SBP/ECA/EVV or Combination	External	ET	50
<b>TOTAL COURSE MARKS</b>						<b>100</b>

**Course Content:**

All about Drawing as communication, Drafting Equipment and its care, Drawing & Drafting Fundamentals, Drawing Classification Systems, Construction Drawings and Documents including Specifications and Contracts, Floor Plans, Roof Plans, Elevations, Sections.  
 There will be Group Exercises for measuring existing buildings and then documenting it.

**Books to Refer:**

1. Architectural Working Drawings by Ralph W. Liebing
2. Architectural Drawing by David Derne
3. Architectural Working Drawings: Residential & Commercial Buildings by William P. Spence
4. Commercial Drafting & Detailing by Allen Jefferis & Kenneth D. Smith
5. A Manual of Construction Documentation by Glenn E. Wiggins

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