

BACHELOR'S DEGREE COURSE IN ARCHITECTURE

SYLLABUS AND COURSE STRUCTURE

(TO BE MADE EFFECTIVE FROM THE ACADEMIC SESSION 2017-2018)

GOVERNMENT SCHOOL OF ARCHITECTURE

AT AAAM DEGREE COLLEGE BEMINA-SRINAGAR, J&K

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OBJECTIVES

The Bachelor of Architecture Degree programme prepares students for professional practice in the field of Architecture. Being an undergraduate programme, it has a broad scope, providing exposure to a variety of interests in this field and assisting students to discover their own directions for further development.

There is increasing recognition today of Architecture as an intellectual discipline, both as art and as a profession. Architects make a vital contribution in the shaping of our environment and society, in the design and technology for a diverse range of situations, both in the rural and urban contexts. In India, we have further complexities of different social, cultural, geographical, economic and technical nuances which are unique and typical of every region in our country.

It is the appreciation of this over-changing context that the architect must bring to bear of his work. This demands appropriate skills, understanding and knowledge and a deep commitment to professed ideals. Addressing Architectural Design as a comprehensive creative process, this programme is based on the following broad intentions:

- a) To stimulate sensitivity and unveil creative talents.
- b) To reinforce intellectual capabilities and develop proficiency in professional skills to enable graduates to competently pursue alternative careers, within the broad spectrum of architecture.
- c) To provide opportunities to students to try out the role they will eventually play as responsible members of society, under supervision and interactive guidance.

The program aims at attaining a high level of excellence in Architectural Design. To this end, the design course is seen as the core of the programme with supportive inputs from courses in other streams viz., the Humanities, the Technological and the Professional, built upon a strong foundation of enabling skills in communications and data processing. The emphasis is on the development of faculties of discernment and decision-making with the aid of both objective information and subjective attitudes, based on reason.

Given the complexities of present-day design projects, the architect's role is that of a team Leader and coordinator of the input of specialists in various specific disciplines. He needs to possess a sound knowledge of all aspects of modern building technology to be able to draw up an integrated framework for activities of the other members of the team, to direct them and to assume overall responsibility for the collective effort. This is manifested in the courses in the Technological and professional streams.

**EXTERNAL JURY SUBJECTS DESIGN/THESIS STUDIOS/BUILDING
CONSTRUCTION/LABORATORIES**

Subjects:

Bachelor of Architecture
Architectural Design I, II, III, IV, V, VI, VII, VIII, IX, X Exam. Graphics I and II Exam. Building Construction IV.

LIST OF COURSES

DESIGN STREAM	Architectural Design	AD-1, AD-2 AD-3,AD-4 AD-5, AD-6 AD-7,AD-8(Training) AD-9, AD-10	IE
	Theory of Design	TD-2 TD-4 TD-5, TD-6	IO
TECHNOLOGY STREAM	Building Construction	BC-1,BC-2 BC-3,BC-4 BC-5,BC-6 BC-7	IE IO
	Advanced Building Technology	BC-9	
	Theory of Structures	TS-1,TS-2 TS-3,TS-4 TS-5,TS-6 TS-7	IE
	Building Science & Services - Climatology - Water & Waste Mgmt. - Electrical Instals - Lighting & Accoustic - Ventilation, Commun. & Security Systems - Integrated Energy Mgmt.	BS-2 BS-3 BS-4 BS-5 BS-6 BS-7	IE
PROFESSIONAL STREAM	Building Management		IO
	- Surveying & Levelling	BM-1	
	- Specs. & Contracts	BM-5	IE
	- Quantities & Estmn.	BM-6	
	- Building Economics	BM-7	IO
- Project Management	BM-9		

	Professional Practice	BM-10	IE
HUMANITIES	History of Architecture	HA-3, HA-4 HA-5, HA-6	IE
	Theory of Settlements	TP-3 TP-5,TP-6 TP-7	IO IE IE
	Art Appreciation	AA-3, AA-4	IO
ENABLING SKILLS	Mathematics Graphics & Communication	XM-1 XG-1, XG-2 XG-3, XG-4	IO IE IE
	Computer Applications	XC-1, XC-2	IE
OPTIONS	Electives	XE-7 XE-9	IO IO
	Project Report/Seminar	PRX SRX	IO IO
	Architectural Thesis	ADT	IE

COURSES OF STUDY

1) ARCHITECTURAL DESIGN:

2) THEORY OF DESIGN: Stage I

The courses in Design Theory aim to evolve a conceptual frame work for intelligent appreciation of architecture and to develop a vocabulary for discussing design ideas. The structure of the courses consists of set of lectures and prescribed reading followed by group discussions and seminars.

3) BUILDING CONSTRUCTION:

This course is designed to expose students to the process of building construction, the components of buildings and the materials, skills and equipment used in shaping them. The emphasis is on familiarization by direct handling and observation, Students shall be encouraged to acquire a taste for good workmanship and quality products.

The course is visualized as having three essential components viz. a lecture course in materials and methods of construction, a building workshop which may be conducted within the School and at specific venues outside and a construction studio wherein principles and practices shall be applied to the production of meaningful working details and drawings. The construction studio will be integrated with the Architectural design studio wherever possible.

4) THEORY OF STRUCTURES:

The objectives of the course are to develop in the students a feel for structural principles and they relates to building design. Essentially, the students should be able to conceive structure as a system that forms space and that architecture and structures cannot be conceived independently. In current architectural practices, structural engineering is a specialist discipline. The architect therefore should be able to appreciate his consultant's concerns and make an informed choice regarding the most appropriate structural system for his building. He should have a reasonable understanding of its operational and economic implications.

The course is visualized as having three essential components viz., a lecture series introducing concepts, a studio in which those will be applied in demonstrative exercises to determine elements and preparing drawings for the same, and laboratory studies for testing of structural material and systems models.

5) BUILDING SCIENCE & SERVICES:

The objective of the course is to provide a wide exposure to environmental support systems as they apply to human habitat. The subjects covered shall be under two basic aspects of (i) climate and environmental control and (ii) water and waste management. These will be studied as areas of energy consumption, with special emphasis on alternative and appropriate methods of energy use and its conservation through innovative operational management.

The course will be supported by a theoretical background of environment, ecology and human settlements as studied in Theory of Settlements courses TP-3 and TP-6. Integration with the workshops in Building Construction will be sought at various stages.

6) BUILDING MANAGEMENT:

This course deals with the entire gamut of activities concerned with the implementation process subsequent to the preparation of the design and construction drawings. The sequence shall begin with the framing of work specifications and progressively lead to concepts of scheduling construction management and project planning.

7) HISTORY OF ARCHITECTURE:

The course is designed to arouse in the student a sense of curiosity and to sharpen his powers of observation. The importance of the timelessness of architecture shall be emphasized. Students shall undertake a chronological study of world architecture with emphasis on the Indian sub-continent and a comparison of the different stages of developments in India and other parts of the world. The architectural study is to be linked with the social developments of civilizations, geographical and geological factors, materials and structures etc. The course shall include sketching and understanding of historical buildings, historical analyses and measured drawings.

8) THEORY OF SETTLEMENT PLANNING:

The courses aims at familiarizing the student with the social, economic and organizational perspectives at the national, regional and local levels as a context in which his architectural product is likely to be placed. This will also provide the necessary background for making informed choices for further studies in related specialized disciplines. Special reference to the problems of urbanization in India, and global environmental concerns.

9) ART APPRECIATION:

The course is considered as a medium for understanding architecture as one of the principal arts in the pantheon of human creativity. The flowering of aesthetic sensibilities and a taste for the visual and sensory appeal of physical form. The emphasis is to make students into connoisseurs of art rather than consummate artists themselves.

10) WORKSHOP:

11) GRAPHICS:

12) COMPUTER APPLICATIONS IN ARCHITECTURE:

13) ELECTIVES:

14) PROJECT REPORT / DISSERTATION:

15) SEMINAR:

16) ARCHITECTURAL THESIS: