

1. SALIENT FEATURES OF THE DIPLOMA PROGRAMME IN ARCHITECTURAL ASSISTANTSHIP

1. Name of the Programme : Diploma programme in Architectural Assistantship
2. Duration of the Programme : Three years
3. Entry Qualifications : Matriculation or equivalent as prescribed by State Board of Technical Education, Haryana
4. Intake : 60
5. Pattern of the Programme : Semester Pattern
6. Ratio between Theory and Drawing : 30 : 70 (Approx.)

2. EMPLOYMENT OPPORTUNITIES FOR DIPLOMA HOLDERS IN ARCHITECTURAL ASSISTANTSHIP

From the feedback received from polytechnics and field organizations, diploma holders in Architectural Assistantship find employment in service sector such as: Architectural Assistant/ Draftsman/Junior Architectural Draftsman/ Junior Planning Assistant in the following organizations:

- The private enterprises consisting of firms of Architects or engineers
- Builders, contractors, interior designers, web-page designers and survey companies
- Government departments namely:
 - a) State Department of Architecture
 - b) State Department of Town and Country Planning
 - c) Central Public Works Department
 - d) State Housing Boards and Corporations
 - e) State Urban Development Agency
 - f) Railways
 - g) Military Engineering Services
 - h) Local Bodies
 - i) Survey of India
 - j) State Electricity Department/Boards
 - k) Telecommunication Department
 - l) Teaching profession

It has been experienced that about 10 per cent of diploma holders start their own practice in the field of Architecture

Self Employment

- Private Practice with local bodies
- Own unit/enterprise for
 - a) Model Making
 - b) Perspective making
 - c) Landscaping
 - d) Drawings and CAD
- Service to Private Architects
- Sub Contracts of Construction, renovation, repair and interior design
- Site Supervision
- Site Surveying
- Estimation and Billing
- Site/marketing of building components
- Liaison work

3. COMPETENCY PROFILE OF DIPLOMA HOLDERS IN ARCHITECTURAL ASSISTANTSHIP

Keeping in view the employment opportunities given above, following are the important activities (priority-wise) of diploma holders in Architectural Assistantship:

- i) Preparation and Interpretation of drawings:
 - Preliminary drawings (Line plans, sketching, tracing)
 - Presentation drawings (Rendering in black and white, colour, perspective drawings)
 - Submission drawings
 - Structural drawings
 - Working drawings and detailing
 - Preparation of prints and plots and their upkeep
 - Maintenance of drawing records and files
 - Services drawings
- ii) Preparation of small building designs, master plans and layouts
- iii) Site supervision/management i.e. measuring, surveying and inspection
- iv) Preparation of models:
 - Study models
 - Detailed Model
 - Block models
- v) Assistance in preparation of tender documents and cost estimates, including valuation
- vi) Preparation of submission documents for approval
- vii) Interior designing, execution and layout
- viii) Management of Architecture office
- ix) Market survey of construction materials

Keeping in view the employment opportunities and job profile of diploma holders of Architectural Assistantship, following competencies are required to be developed in the students:

- i) Development of skills in free-hand sketching, lettering and preparation of presentation, submission, structural and working drawings and detailed thereof
- ii) Development of basic knowledge and skills for preparing small building designs and layouts
- iii) Development of skills in model making using different materials
- iv) Development of skills in preparation of municipal drawings/submission drawings, corporation drawings and related documents
- v) Development of knowledge and skills in site management comprising of measurement, surveying and inspection
- vi) Development of basic knowledge and skills in preparing rough estimates, preparation of detailed estimates and tender documents for small buildings
- vii) Development of skills in taking out prints/plots, cloth mounting, colouring and folding of prints and their up keep
- viii) Appreciation of basic knowledge regarding various building materials and construction techniques
- ix) Development of basic knowledge about elements & principles of theory of design
- x) Development of basic knowledge of history of architecture, town planning and building bye-laws, with emphasis on construction techniques
- xi) Development of knowledge and skills in applications of computers in architecture
- xii) Development of basic understanding of resource systems helping in the financing of small enterprises
- xiii) Development of basic knowledge of climatology, environment and ecology
- xiv) Understanding the behaviour of structural elements of building
- xv) Development of basic understanding of building services
- xvi) Development of communication and managerial skills
- xvii) Development of basic drawing skills by hand

4. DERIVING CURRICULUM AREAS FROM COMPETENCY PROFILE

Sr.	Competency Profile	Curriculum Areas
1.	Development of skills in free-hand sketching, lettering and preparation of presentation, submission, structural and working drawings and detailed thereof	<ul style="list-style-type: none"> • Free hand sketching • Architectural Drawing • Building Construction • Building Services • Building bye-laws • Reinforce Cement Concrete (RCC)
2.	Development of basic knowledge and skills for preparing small building designs and layouts	<ul style="list-style-type: none"> • Architectural Design • Climatology • Theory of Design • Construction Materials • Landscape Design
3.	Development of skills in model making using different materials	<ul style="list-style-type: none"> • Model Making
4.	Development of skills in preparation of municipal drawings/submission drawings/ corporation drawings	<ul style="list-style-type: none"> • Building Bye-Laws and Municipal Drawing
5.	Development of knowledge and skills in site management comprising of measurement, surveying and inspection	<ul style="list-style-type: none"> • Building Construction • Surveying • Construction Management
6.	Development of basic knowledge and skills in preparing tender documents, rough estimates and also preparation of detailed estimates for small buildings	<ul style="list-style-type: none"> • Quantity Surveying and Valuation
7.	Development of skills in taking out prints, cloth mounting, colouring and folding of prints/plots and their up keep	<ul style="list-style-type: none"> • Working Drawing • Architectural Drawing • Building bye-laws • Workshop Practice
8.	Development of basic knowledge regarding various building materials and construction techniques	<ul style="list-style-type: none"> • Building Material • Building Construction • Entrepreneurship Development and Management • Portfolio (Major Project and Professional Training)
9.	Appreciation of basic knowledge about elements and principles of theory of design	<ul style="list-style-type: none"> • Theory of Architectural Design
10.	Development of basic knowledge of history of architecture, town planning and building bye-laws with emphasis on computer techniques	<ul style="list-style-type: none"> • Building Bye-Laws • Town Planning • History of Architecture
11.	Development of basic knowledge and skills in applications of computers in architecture	<ul style="list-style-type: none"> • Computer Applications in Architecture
12.	Development of basic understanding of resource systems helping in the financing of small enterprises	<ul style="list-style-type: none"> • Construction Management • Entrepreneurship Development and Management
13.	Development of basic knowledge of climatology, environment and ecology	<ul style="list-style-type: none"> • Climatology • Environmental Education
14.	Understanding the behaviour of structural elements of building	<ul style="list-style-type: none"> • Structural Mechanics
15.	Development of basic understanding of building services	<ul style="list-style-type: none"> • Building Services
16.	Development of communication and managerial skills	<ul style="list-style-type: none"> • Communication Skills
17.	Development of basic hand skills	<ul style="list-style-type: none"> • Workshop Practice • Model making

5. **HORIZONTAL AND VERTICAL ORGANISATION OF THE SUBJECTS**

Sr. No.	Subject	Distribution of time in various semesters					
		I	II	III	IV	V	VI
1.	Communication Skills	5	5	-	-	-	-
2.	Architectural Drawing	6	6	6	-	-	-
3.	Free Hand Sketching	6	-	-	-	-	-
4.	Theory of Design	3	-	-	-	-	-
5.	Building Materials	5	3	-	-	-	-
6.	Model Making	4	-	-	-	-	-
7.	Applied Sciences and Mathematics	7	-	-	-	-	-
8.	Basics of Information Technology	-	4	-	-	-	-
9.	Building Construction	-	8	6	6	6	-
10.	History of Architecture	-	3	3	3	-	-
11.	Architectural Design	-	6	8	8	8	-
12.	Surveying	-	-	5	-	-	-
13.	Climatology	-	-	3	-	-	-
14.	Building Services	-	-	4	-	-	-
15.	Structural Mechanics	-	-	-	5	-	-
16.	Building Bye-Laws	-	-	-	3	-	-
17.	Working Drawing	-	-	-	6	6	-
18.	Computer Applications in Architecture	-	-	-	4	4	-
19.	Employability Skills	-	-	-	-	2	2
20.	Entrepreneurship Development and Management	-	-	-	-	-	3
21.	Reinforced Cement Concrete (RCC)	-	-	-	-	6	-
22.	Environmental Education	-	-	-	-	3	-
23.	Quantity Surveying and Valuation	-	-	-	-	-	5
24.	Elective-I	-	-	-	-	-	3
25.	Elective-II	-	-	-	-	-	3
26.	Portfolio (Major Project) and Professional Training	-	-	-	-	-	19
27.	Student Centered Activities	4	5	5	5	5	5
	Total	40	40	40	40	40	40

