

**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 as prescribed by State Board of Technical Education, Haryana
4. Intake : 30
5. Pattern of the Programme : Semester System
6. Ratio between theory and Practical : 32:68

## **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 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 tender documents, rough estimates and also preparation of detailed estimates 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 hand skills

#### 4. DERIVING CURRICULUM AREAS FROM COMPETENCY PROFILE

Sr. No	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"> <li>- Free hand sketching</li> <li>- Architectural Drawing</li> <li>- Building Construction</li> <li>- Building Services</li> <li>- Building bye-laws</li> <li>- Structural system</li> </ul>
2.	Development of basic knowledge and skills for preparing small building designs and layouts	<ul style="list-style-type: none"> <li>- Architectural Design</li> <li>- Climatology</li> <li>- Theory of Design</li> <li>- Construction Materials</li> <li>- Landscaping</li> </ul>
3.	Development of skills in model making using different materials	Model Making
4.	Development of skills in preparation of municipal drawings/submission drawings/ corporation drawings	<ul style="list-style-type: none"> <li>- Building Bye-Laws and</li> <li>- Municipal Drawing</li> </ul>
5.	Development of knowledge and skills in site management comprising of measurement, surveying and inspection	<ul style="list-style-type: none"> <li>- Building Construction</li> <li>- Surveying</li> <li>- Construction Management</li> </ul>
6.	Development of basic knowledge and skills in preparing tender documents, rough estimates and also preparation of detailed estimates for small buildings	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"> <li>- Working Drawing</li> <li>- Architectural Drawing</li> <li>- Building bye-laws</li> <li>- Workshop Practice</li> </ul>
8.	Development of basic knowledge regarding various building materials and construction techniques	<ul style="list-style-type: none"> <li>- Building Material</li> <li>- Building Construction</li> <li>- Market Survey</li> <li>- (Entrepreneurship and Project work)</li> </ul>
9.	Appreciation of basic knowledge about elements and principles of theory of design	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"> <li>- Building Bye-Laws and Municipal Drawing</li> <li>- Town Planning</li> <li>- History of Architecture</li> </ul>
11.	Development of basic knowledge and skills in applications of computers in architecture	Computer Applications in Architecture

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|-----|--|--|
| 12. | Development of basic understanding of resource systems helping in the financing of small enterprises | Construction Management and Entrepreneurship Development |
| 13. | Development of basic knowledge of climatology, environment and ecology                               | Climatology, Environment and Ecology                     |
| 14. | Understanding the behaviour of structural elements of building                                       | Structural Mechanics<br>Structural Systems               |
| 15. | Development of basic understanding of building services  | Building Services  |
| 16. | Development of communication and managerial skills   | Communication Skills                                     |
| 17. | Development of basic hand skills   | Workshop Practice  |

## **5. ABSTRACT OF THE CURRICULUM AREAS**

### **a) General Sciences**

1. Communication Skills
2. Basics of Information Technology
3. Entrepreneurship Awareness
4. Ecology and Environmental Awareness
5. Architectural Professional Practice

### **b) Applied Sciences**

6. Applied Science and Mathematics

### **c) Basic Courses in Engineering/Technology**

7. Theory of Design
8. History of Architecture

### **d) Applied Courses in Engineering/Technology**

9. Architectural Drawing
10. Free-hand sketching
11. Building Materials
12. Model Making
13. Building Construction
14. Architecture Design
15. Climatology
16. Surveying
17. Building Services
18. Working Drawings
19. Structural Mechanics
20. Computer Applications in Architecture
21. Building Bye-Laws and Municipal Drawings
22. Structural Systems & Design
23. Quantity Surveying and Evaluation
24. Portfolio (Major Project)

### **e) Specialized Courses (Electives)**

25. Landscape Design
26. Housing
27. Town Planning
28. Site Management
29. Interior Design
30. Building Maintenance

## 6. HORIZONTAL AND VERTICAL ORGANISATION OF THE SUBJECTS

Sr. No.	Subjects	Distribution in Hours 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.	History of Architecture	3	-	3	3	-	-
5.	Building Materials	3	3	-	-	-	-
6.	Model Making	3	4	-	-	3	-
7.	Applied Sciences and Mathematics	9	-	-	-	-	-
8.	Theory of Design	-	3	-	-	-	-
9.	Building Construction	-	8	8	8	8	-
10.	Architecture Design	-	6	6	6	6	-
11.	Climatology	-	-	3	-	-	-
12.	Basics of Information Technology	-	-	4	-	-	-
13.	Surveying	-	-	5	-	-	-
14.	Building Services	-	-	-	4	-	-
15.	Working Drawings	-	-	-	6	6	-
16.	Structural Mechanics	-	-	-	5	-	-
17.	Computer Applications in Architecture	-	-	-	4	4	6
18.	Building Bye-Laws and Municipal Drawings	-	-	-	-	3	-
19.	Structural Systems & Design	-	-	-	-	5	-
20.	Quantity Surveying, Valuation and Specifications	-	-	-	-	-	5
21.	Architectural Professional Practice	-	-	-	-	-	3
22.	Elective – I	-	-	-	-	-	3
23.	Elective – II	-	-	-	-	-	3
24.	Portfolio (Major Project)	-	-	-	-	-	15
25.	Student Centred Activities	5	5	5	4	5	5
	<b>Total</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>