

**SYLLABUS FOR THE SUBJECT**

**OF**

**TRADE THEORY-I  
AND  
TRADE PRACTICAL-I**

**Under**

**CRAFT INSTRUCTOR TRAINING SCHEME (CITS)**

**ARCHITECTURAL ASSISTANTSHIP**

**Redesigned in  
2014**

**By  
Government of India  
Ministry of Labour & Employment  
Directorate General of Employment and Training**

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## **A. RATIONALE**

**Success & Sustainability of any Training System depends upon given other things, availability of good quality instructors. An Instructor should possess good trade skills to impart skill training. To cope up this quality possession of trade skills is imperative.**

**Ability to understand and interpret the course content is essential to perform a job / task of Engineering Trades. It is the skills, Knowledge and Attitude which enables comprehending the given job and subsequent planning to complete the task/job. Thus it is imperative for any trade to instructor to have skill so that same can be transferred.**

**For an instructor it is essential to have in depth knowledge set which enables analyzing the given job and subsequent detail planning. To transfer skill the practical know how is most important criteria as in ITI system skill is the ultimate requirement. To perform a task/job both theoretical and practical knowledge are very much needed. Thus Trade Technology is regarded as basic/hard skills which are base of all skill based training.**

**Recognizing this importance maximum weightage has been given to the Trade Technology in all Engineering Trades in Craft Instructors Training Scheme (CITS) under NCVT.**

## **B. GENERAL INFORMATION**

- 1. Name of the Course** : Craft Instructor Training
- 2. Duration of Instructor training** : 1 Year (Twelve months) (two semesters each of six months duration)
- 3. Subjects covered in semesters** : Detailed in section C
- 4. Name of the subject** : Trade Theory-I and Trade Practical-I
- 5. Applicability** : **ARCHITECTURAL ASSISTANTSHIP**
- 6. Examination:** : AITT to be held at the end of each semester
- 7. Space Norms** : a) Class room: Minimum 30 sq.m. area having Minimum width of 5 m.  
b) Drawing Hall: 100 sq.mt  
c) Computer Lab : 60 sq.mt
- 8. Power Norms** : a) Class Room : 1 KW(6000 lumen)  
b) Drawing Hall : 3.5 kw(25000 lumen)  
c) Computer Lab :
- The electrical equipments of Class room should conform to minimum 3 star Building energy rating as per Bureau of Energy Efficiency (B.E.E.)
- 9. Unit Strength (Batch size)** : 20
- 10. Entry Qualification** : NTC / NAC in Architectural Draughtsmanship or Architectural Assistant trade  
Or  
3 years Diploma in Architecture from recognized board of Technical education
- 11. Trainer's Qualification** : Degree Or Diploma in Architecture with Two / Five years' post qualification experience respectively
- 12. Desirable** : Passed National Craft Instructor Training course in same or relevant trade.

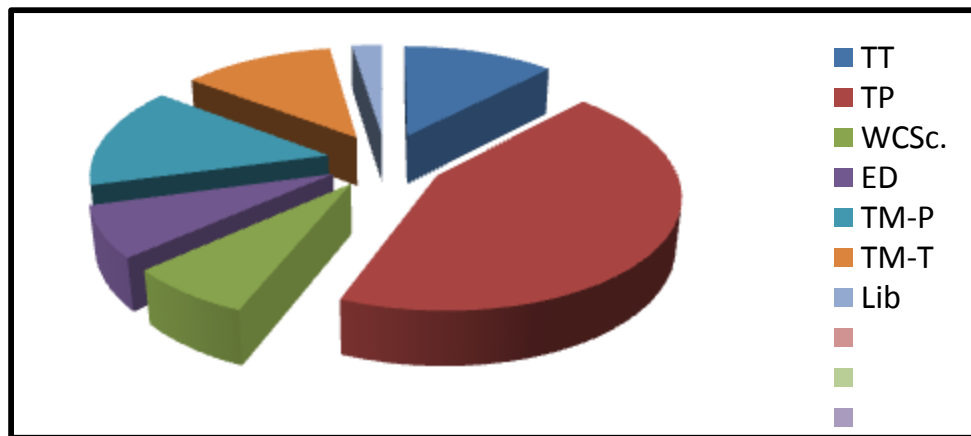
In case of two units, one trainer must be Degree in Engineering.

### C. SEMESTER WISE ALLOTMENT OF TIME & MARKS AMONG THE SUBJECTS FOR CITS

	SUBJECTS	Hrs. / Week	% of time allotted	Marks	Sessional	Full Marks	Pass Marks		
							Exam.	Sessional	Total
First semester	Trade Practical – 1	20	50	200	30	230	120	18	138
	Trade Theory - 1	6	15	100	20	120	60	12	72
	Workshop Cal. & Sc.	6	15	50	-	50	30	-	30
	Engineering Drawing	6	15	100	-	100	60	-	60
	Library	2	5	-	-				
	<b>TOTAL for Sem. - I</b>	<b>40</b>		<b>450</b>	<b>50</b>	<b>500</b>	<b>270</b>	<b>30</b>	<b>300</b>
Second semester	Trade Practical – 2	16	40	200	30	230	120	18	138
	Trade Theory - 2	4	10	100	20	120	60	12	72
	Training Methodology - Practical	12	30	200	30	230	120	18	138
	Training Methodology - Theory + IT	6+2	20	100	20	120	60	12	72
	<b>TOTAL</b>	<b>40</b>		<b>600</b>	<b>100</b>	<b>700</b>	<b>360</b>	<b>60</b>	<b>420</b>
	<b>GRAND TOTAL</b>	<b>80</b>		<b>1050</b>	<b>150</b>	<b>1200</b>	<b>630</b>	<b>90</b>	<b>720</b>

Hourly Distribution

TOTAL: 1200 marks for 2 semesters Pass marks: 720



Subject	Time in %	Marks in %
Trade Practical	45	38
Trade Theory	12.5	20
<b>Total for Trade</b>	<b>57.5</b>	<b>58</b>
Training Methodology (Practical)	15	19
Training Methodology (Theory) + IT	12.5	10
<b>Total for Training Methodology &amp; IT</b>	<b>27.5</b>	<b>29</b>
Engineering Drawing	7.5	12
Workshop Cal. & Sc.	7.5	4
Library	2.5	-

## **D. Syllabus for the Trade of ARCHITECTURAL ASSISTANTSHIP under Craft Instructor Training Scheme (CITS)**

Note: During the discussion of any machine tools, related precautions and safety measures should be discussed.

### **Semester: 01**

	<b>Trade Practical 01 (Architectural design and 3D)</b>		<b>Trade Theory 01 (Architectural design)</b>	
<b>Week no</b>	<b>Topics</b>	<b>Marks</b>	<b>Topics</b>	<b>Marks</b>
01 - 03	<b>Design topics</b> <ul style="list-style-type: none"> <li>● Residential</li> <li>● primary / play school</li> <li>● Bank</li> <li>● Luxury farm house with landscape, courtyard, swimming pool etc</li> <li>● Case study- similar building need to be studied in detail and report to be submitted.</li> </ul>	<b>20</b>	<b>Orientation</b> <ul style="list-style-type: none"> <li>● Movement of sun</li> <li>● Sun path diagram</li> <li>● change in angle with respect to change in weather</li> </ul>	<b>10</b>
04 - 06	Requirements to be framed (as per client in case of live project) Concept to be worked on which the design will be based. <ul style="list-style-type: none"> <li>● Initial sketches / preliminary drawings to be submitted in CAD</li> </ul>	<b>20</b>	<b>Climatic zones of India</b> <ul style="list-style-type: none"> <li>● Hot and dry</li> <li>● Warm and humid</li> <li>● Cold and cloudy</li> <li>● Composite</li> </ul>	<b>10</b>
07 - 09	<ul style="list-style-type: none"> <li>● Final presentation drawings of the project (plan, elevation)</li> </ul>	<b>30</b>	<b>Main consideration of design and planning</b> <ul style="list-style-type: none"> <li>● Orientation</li> <li>● Effect of wind</li> <li>● Site topography</li> <li>● Comfort zone</li> <li>● Factors at site level</li> <li>● Factors at building level</li> <li>● Window positioning</li> <li>● Building material</li> </ul>	<b>15</b>
10 - 12	<ul style="list-style-type: none"> <li>● Final presentation drawings of the project (sections and site plan) details with landscape</li> </ul>	<b>30</b>	<b>Site planning</b> <ul style="list-style-type: none"> <li>● identification and preparation</li> </ul>	<b>15</b>

			<ul style="list-style-type: none"> <li>● Factors involved in analysis of site – geology, topography</li> <li>● Soil – its classification, vegetation, wild life, climatic factor</li> </ul>	
13 - 14	<ul style="list-style-type: none"> <li>● A brief report of the project</li> </ul>	30	<b>Climate and climatic control techniques</b> <ul style="list-style-type: none"> <li>● Effect of vegetation on wind flow</li> <li>● effect of water body / ponds</li> <li>● Protection of walls from sun and rain</li> <li>● Walls and openings</li> <li>● Effect of roof treatment</li> </ul>	15
15 - 17	<ul style="list-style-type: none"> <li>● 3D modeling ,rendering on 3d softwares like auto cad , Revit or 3d max(whichever available)</li> <li>● creating 3d model from 2d plane</li> <li>● Generation of surfaces</li> <li>● Material editor</li> <li>● Lighting</li> <li>● Rendering</li> </ul>	40	<b>Contemporary Architecture</b> <ul style="list-style-type: none"> <li>● Realization of character and style of modern architecture</li> <li>● Study of design concepts and contribution to architects like Le Corbusier, louis I khan, Walter Gropius, Charles correa, F.L.wright, B.V.doshi, kanvinde, satish gujral, Laurie baker.</li> </ul>	20
18 - 20	<ul style="list-style-type: none"> <li>● Creating 3D model from 2D plan of any of the above project may be interior or exterior generation of surfaces, material editor, lighting and rendering</li> </ul>	30	<b>Green building and its concept of energy conservation</b>	15
21 - 24	<b>On the job training</b> <ul style="list-style-type: none"> <li>● On the job training in any of the Architect's office</li> </ul>			
25	Revision			
26	Examination			

**E. LIST OF TOOLS AND EQUIPEMENTS**  
**ARCHITECTURE ASSISTANTSHIP**  
**(SEMESTER – 1)**

(Note: latest configuration to be achieved while procuring all  
Tools & Equipments)

No. of Unit / Batch : 1 (one)  
Strength : 20 trainees

**Hand Tools (to be treated as consumables)**

SI No.	Name of the Item	Quantity
1.	Adjustable set square with beveled edge – 30 cm	20 + 1 sets
2.	Parallel Bar / T scale – 1250 mm long	20 +1 No.
3.	Compass with Long arm & pen holder	20 + 1 No.
4.	Protractor – 15 cm	20 + 1 No.
5.	Graphic Pens	As per requirement
6.	Triangular Scale 30 cm	20 + 1 No.
7.	Clutch pencil – 0.5mm , 0.2 mm , 2mm.	20 + 1 No.
8.	Pen Drive	As per requirement

**Note:**

1. All the hand tools mentioned under SI.No. 1 to 7 would be issued to Trainees once during their course and to be treated as consumables.
2. The quantities of hand Tools may be increased suitably based on the No. of Trainees on roll (including the Strength of Additional Unit, if any).
3. In addition to the list, small measuring tapes, Drawing Sheet, Tracing Paper, Butter Sheet, Color Pencils, Pencil ( of various grades ), Pencil Leads, Cello tape, Eraser and any other Raw Materials would be issued as per the requirement.
4. For faculty members may be provided Raw Materials like Pen Drive, Pocket Hard Disk, Memory Card, Re-writable CDs & DVD etc.,



## General Outfit

SI No.	Name of the Item	Quantity
1.	Drawing Board measuring 1250mm X 900 mm fixed over adjustable stand	**20 + 1 sets
2.	Calculator	2 Nos.

\*\*Numbers may be increased depending on on-roll trainees' strength and for additional unit (if any)

## F . Furniture for Theory/ Practical Lab

SI no.	Name of the Item	Quantity
1.	Dual Desk	**12 No.
2.	Draughtsman stool with back ( revolving type)	**21 No.
3.	Students Lockers – with 8 compartments	3 No.
4.	Chest of Drawers	4 No.
5.	Steel book case ( with lockable glass shutters)	1 No.
6.	Theory room / Studio table	1 No.
7.	Instructor's table	1 No.
8.	Revolving Chair for Class room	2 No.
9.	Instructor's revolving with arm chair	2 No.
10.	Visitor's revolving chair	2 No.
11.	Steel Almirah	2 No.
12.	Magnetic White Board	2 No.
13.	Pin-up board (with or without stand)	6 No.

\*\*Numbers may be increased depending on on-roll trainees' strength and additional unit (if any)

## Furniture for CAD Lab

SI No.	Name of the Item	Quantity
1.	Personal Computer with LCD monitor & DVD re-writer along with Latest compatible OS	21 Nos.
2.	Notebook PC	2 Nos.
3.	Drafting Software like AutoCAD, or equiv.	21 Nos.
4.	3D modeling software like Max, Revit etc.	**5 Nos.
5.	Plotter ( A0 size)	1 No.
6.	Laser Jet color printer (A4 size)	1 No.
7.	Inkjet/ Laser Jet Printer (A3 size)	1 No.
8.	Color Scanner/printer with Latest Configuration	1 No.
9.	700VA or higher Offline UPS	23 Nos.

10.	Computer work station ( module type)	21 Nos.
11.	Printer Table ( module type)	1 No.
12.	Operator's revolving chair	24 Nos.
13.	Instructor 's Lab table	2 Nos.
14.	Instructor's revolving chair with arm	2 Nos.
15.	Book shelf with glass shutters	1 No.
16.	Air conditioner 1.5 / 2.0 tons (preferably split type) for CAD lab	4 Nos.
17.	Air conditioner 1.5 / 2.0 tons (preferably split type) for theory class room/Practical room	2 Nos.
18.	LAN connectivity	As per requirement
19.	Internet connection	1 No.
20.	Visualizer	1 No.
21.	Vacuum Cleaner	1 No.

\*\*it may be as per requirement i.e. equal to no of trainees.

Mouse & Keyboard should be treated as Raw Material.

#### **Audio Visual Aids**

<b>Sl no.</b>	<b>Name of the item</b>	<b>Quantity</b>
1.	LCD Projector	1 No.
2.	Interactive Board	1 No.

## G. LIST OF TRADE COMMITTEE MEMBERS

Sl. No.	Name & Designation Sh./Mr./Ms.	Organization	Mentor Council Designation
1.	Prof. Nirjhar Dhang. (H.O.D)	Dept. of Civil Engg. IIT Kharagpur	Chairman
2.	Col. N. B. Saxena.	Construction Skill Development Council of India (CSDCI)	Member
3.	Satish Gottipati. (M. D.)	Preca Solutions (E)	Member
4.	Meena Raghunathan. (Director, Community Science.)	GMRU Foundation, Hyderabad.	Member
5.	D. K. Chattopadhyay. (Training Officer.)	ATI, Kolkata. Dasnagar, Howrah.	Member
6.	S. R. Vhatkar. (Training Officer.)	ATI, Kolkata. Dasnagar, Howrah.	Member
7.	A. K. Naskar. (Training Officer.)	ATI, Kolkata. Dasnagar, Howrah.	Member
8.	S. Chockalingam. (Training Officer.)	CTI, Chennai,	Member
9.	Tapan Kr. Halder. (Training Officer.)	RDAT, Kanpur.	Member
10.	Arpana Singh. (T.O.)	N.V.T.I (W) Noida.	Member
11.	P. Karithashankar. (T. O.)	N.V.T.I (W) Noida.	Member
12.	Simni. (T. O.)	N.V.T.I (W) Noida.	Member
13.	Suman Kumari. (T. O.)	N.V.T.I (W) Noida.	Member

**SYLLABUS FOR THE SUBJECT**

**OF**

**TRADE THEORY- II**  
**AND**  
**TRADE PRACTICAL- II**

**Under**

**CRAFT INSTRUCTOR TRAINING SCHEME (CITS)**

**ARCHITECTURAL ASSISTANTSHIP**

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<b>G</b>	<b>List of Expert Members</b>	<b>11</b>

## **F. RATIONALE**

Success & Sustainability of any Training System depends upon given other things, availability of good quality instructors. An Instructor should possess good trade skills to impart skill training. To cope up this quality possession of trade skills is imperative.

Ability to understand and interpret the course content is essential to perform a job / task of Engineering Trades. It is the skills, Knowledge and Attitude which enables comprehending the given job and subsequent planning to complete the task/job. Thus it is imperative for any trade to instructor to have skill so that same can be transferred.

For an instructor it is essential to have in depth knowledge set which enables analyzing the given job and subsequent detail planning. To transfer skill the practical know how is most important criteria as in ITI system skill is the ultimate requirement. To perform a task/job both theoretical and practical knowledge are very much needed. Thus Trade Technology is regarded as basic/hard skills which are base of all skill based training.

Recognizing this importance maximum weightage has been given to the Trade Technology in all Engineering Trades in Craft Instructors Training Scheme (CITS) under NCVT.

## **G. GENERAL INFORMATION**

- 1. Name of the Course** : Craft Instructor Training
- 2. Duration of Instructor training** : 1 Year (Twelve months) (two semesters each of six months duration)
- 3. Subjects covered in semesters** : Detailed in section C
- 4. Name of the subject** : Trade Theory - II and Trade Practical - II
- 5. Applicability** : **ARCHITECTURAL ASSISTANTSHIP**
- 6. Examination:** : AITT to be held at the end of each semester
- 7. Space Norms** : a) Class room: Minimum 30 sq.m. area having Minimum width of 5 m.  
b) Drawing Hall: 100 sq.mt  
c) Computer Lab : 60 sq.mt
- 8. Power Norms** : a) Class room : 1 KW (6000 lumen)  
b) Drawing hall : 3.5 kw(25000 lumen)  
c) Computer lab :
- The electrical equipments of Class room should conform to minimum 3 star Building energy rating as per Bureau of Energy Efficiency (B.E.E.)
- 9. Unit Strength (Batch size)** : 20
- 10. Entry Qualification** : Completed Semester – I of ARCHITECTURAL ASSISTANTSHIP trade under CITS OR Diploma / Degree in Civil or relevant Engineering from AICTE recognized Board / University
- 11. Trainer's Qualification** : Degree Or Diploma in Architecture with Two / Five years' post qualification experience respectively
- 13. Desirable** : Passed National Craft Instructor Training course in same or relevant trade.

In case of two units, one trainer must be Degree in Engineering.

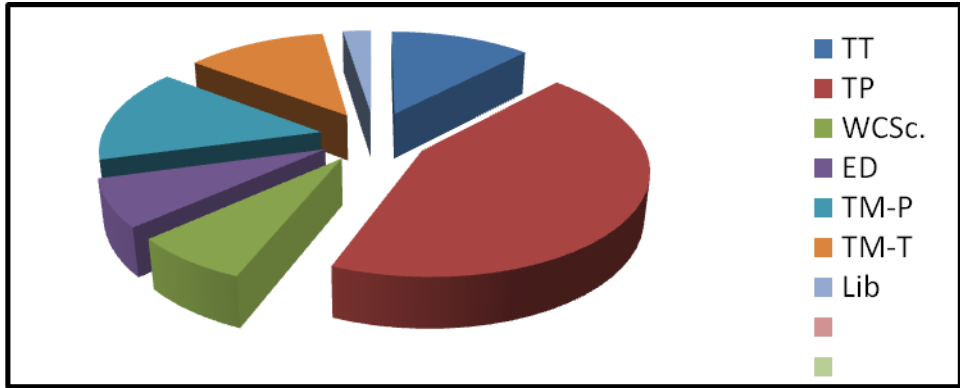
## **H. SEMESTER WISE ALLOTMENT OF TIME & MARKS AMONG THE SUBJECTS FOR CITS**

	SUBJECTS	Hrs. / Week	% of time allotted	Marks	Sessional	Full Marks	Pass Marks		
							Exam.	Sessional	Total
<b>First semester</b>	Trade Practical – 1	20	50	200	30	<b>230</b>	120	18	<b>138</b>
	Trade Theory - 1	6	15	100	20	<b>120</b>	60	12	72
	Workshop Cal. & Sc.	<b>6</b>	15	50	-	<b>50</b>	30	-	30
	Engineering Drawing	<b>6</b>	15	100	-	<b>100</b>	60	-	60
	Library	<b>2</b>	5	-	-				
	<b>TOTAL for Sem.– I/week</b>	<b>40</b>		<b>450</b>	<b>50</b>	<b>500</b>	<b>270</b>	<b>30</b>	<b>300</b>
<b>Second semester</b>	Trade Practical – 2	16	40	200	30	<b>230</b>	120	18	<b>138</b>
	Trade Theory - 2	4	10	100	20	<b>120</b>	60	12	72
	Training Methodology - Practical	12	30	200	30	<b>230</b>	120	18	<b>138</b>
	Training Methodology - Theory + IT	6+2	20	100	20	<b>120</b>	60	12	72
	<b>TOTAL for Sem.– II/week</b>	<b>40</b>		<b>600</b>	<b>100</b>	<b>700</b>	<b>360</b>	<b>60</b>	<b>420</b>
	<b>GRAND TOTAL</b>	<b>80</b>		<b>1050</b>	<b>150</b>	<b>1200</b>	<b>630</b>	<b>90</b>	<b>720</b>

Hourly Distribution

TOTAL: 1200 marks for 2 semesters Pass marks:

720



Subject	Time in %	Marks in %
Trade Practical	45	38
Trade Theory	12.5	20
<b>Total for Trade</b>	<b>57.5</b>	<b>58</b>
Training Methodology (Practical)	15	19
Training Methodology (Theory) + IT	12.5	10
<b>Total for Training Methodology &amp; IT</b>	<b>27.5</b>	<b>29</b>
Engineering Drawing	7.5	12
Workshop Cal. & Sc.	7.5	4
Library	2.5	-



## I. Syllabus for the Trade of ARCHITECTURAL ASSISTANTSHIP under Craft Instructor Training Scheme (CITS)

Note: During the discussion of any machine tools, related precautions and safety measures should be discussed.

### Semester: 02

	<b>Trade Practical 02 (Building Construction)</b>		<b>Trade Theory 02 (Building Construction)</b>	
<b>Week no</b>	<b>Topics</b>	<b>Marks</b>	<b>Topics</b>	<b>Marks</b>
01 - 04	<b>Joints in structure</b> <ul style="list-style-type: none"> <li>● Construction joints – wall, columns, slab details</li> </ul>	30	<b>Joints in structure</b> <ul style="list-style-type: none"> <li>● Need for joints in building</li> <li>● Construction joints – position, method of forming construction joint</li> </ul>	15
05 - 08	<b>Expansion joint</b> <ul style="list-style-type: none"> <li>● Types of expansion joints and its usage in building with complete details</li> </ul>	30	<ul style="list-style-type: none"> <li>● Expansion joints – need for expansion joint, details of expansion joints fixing in roofs and walls</li> <li>● Distance between 2 expansion joints and materials used in expansion and construction joints</li> </ul>	15
09 - 12	<b>False ceiling</b> <ul style="list-style-type: none"> <li>● Design and detail a false ceiling of living room, bed room, dining, lounge of a designed residence (POP ceiling)</li> </ul>	50	<b>False ceiling (suspended)</b> <ul style="list-style-type: none"> <li>● Requirement of false ceiling</li> <li>● Material uses for false ceiling to suit different purpose like acoustical/ thermal/ ordinary/ lighting</li> <li>● Classification of false ceiling and related theory of acoustics</li> <li>● Construction details of false ceiling as per materials and design</li> </ul>	25
13 - 16	<b>Partition</b> <ul style="list-style-type: none"> <li>● Design and detail partition wall using aluminum and timber sections. Fixing detail of materials used for partitions</li> </ul>	50	<b>Partition</b> <ul style="list-style-type: none"> <li>● Partition material used like brick, glass, timber, acoustical, gypsum, semi glazed, PVC partition and construction details for the same</li> </ul>	25
17 - 20	<b>Panelling</b> <ul style="list-style-type: none"> <li>● Design and detail panelling of a conference, office or auditorium</li> </ul> Draw plan, elevation and section and fixing detail	40	<b>Panelling</b> <ul style="list-style-type: none"> <li>● Requirement of panelling</li> <li>● Materials used for panelling</li> <li>● Types of panelling</li> <li>● Construction details of traditional panelling and modern paneling</li> </ul>	20
21 - 24	<b>On the job training</b>			

	● On the job training in any of the Architect's office
25	Revision
26	Examination

**J. LIST OF TOOLS AND EQUIPEMENTS**  
**ARCHITECTURE ASSISTANTSHIP**  
**(SEMESTER -2)**

(Note: latest configuration to be achieved while procuring all  
Tools & Equipments)

No. of Unit / Batch : 1 (one)  
Strength : 20 trainees

**Hand Tools (to be treated as consumables)**

SI No.	Name of the Item	Quantity
1.	Adjustable set square with beveled edge - 30 cm	20 + 1 sets
2.	Parallel Bar / T scale - 1250 mm long	20 +1 No.
3.	Compass with Long arm & pen holder	20 + 1 No.
4.	Protractor - 15 cm	20 + 1 No.
5.	Graphic Pens /Rotring pens	As per requirement
6.	Triangular Scale 30 cm	20 + 1 No.
7.	Clutch pencil - 0.5mm , 0.2 mm , 2mm.	20 + 1 No.
8.	Pen Drive	As per requirement

**Note:**

5. All the hand tools mentioned under SI.No. 1 to 7 would be issued to Trainees once during their course and to be treated as consumables.
6. The quantities of hand Tools may be increased suitably based on the No. of Trainees on roll (including the Strength of Additional Unit, if any).
7. In addition to the list, small measuring tapes, Drawing Sheet, Tracing Paper, Butter Sheet, Color Pencils, Pencil ( of various grades ), Pencil Leads, Cello tape, Eraser and any other Raw Materials would be issued as per the requirement.
8. For faculty members may be provided Raw Materials like Pen Drive, Pocket Hard Disk, Memory Card, Re-writable CDs & DVD etc.,

### General Outfit

SI No.	Name of the Item	Quantity
1.	Drawing Board measuring 1250mm X 900 mm fixed over adjustable stand	**20 + 1 sets
2.	Calculator	2 Nos.

\*\*Numbers may be increased depending on on-roll trainees' strength and for additional unit (if any). It may be as per requirement i.e. equal to no of trainees.

### K. Furniture for Theory/ Practical Lab

SI no.	Name of the Item	Quantity
1.	Dual Desk	**12 No.
2.	Draughtsman stool with back ( revolving type)	**21 No.
3.	Students Lockers – with 8 compartments	3 No.
4.	Chest of Drawers/with six drawers in each	4 No.
5.	Steel book case ( with lockable glass shutters)	1 No.
6.	Theory room / Studio table	1 No.
7.	Instructor's table	1 No.
8.	Revolving Chair for Class room	2 No.
9.	Instructor's revolving with arm chair	2 No.
10.	Visitor's revolving chair	2 No.
11.	Steel Almirah	2 No.
12.	Magnetic White Board	2 No.
13.	Pin-up board (wit without stand)	6 No.

\*\*Numbers may be increased depending on on-roll trainees' strength and additional unit (if any). It may be as per requirement i.e. equal to no of trainees.

### Furniture for CAD Lab

SI No.	Name of the Item	Quantity
1.	Personal Computer with LCD monitor & DVD re-writer along with Latest compatible OS	21 Nos.
2.	Notebook PC	2 Nos.
3.	Drafting Software like AutoCAD, or equiv.	21 Nos.
4.	3D modeling software like Max, Revit etc.	**5 Nos.
5.	Plotter ( A0 size)	1 No.
6.	Laser Jet color printer (A4 size)	1 No.
7.	Inkjet/ Laser Jet Printer (A3 size)	1 No.

8.	Color Scanner/printer with Latest Configuration	1 No.
9.	700VA or higher Offline UPS	23 Nos.
10.	Computer work station ( module type)	21 Nos.
11.	Printer Table ( module type)	1 No.
12.	Operator's revolving chair	24 Nos.
13.	Instructor 's Lab table	2 Nos.
14.	Instructor's revolving chair with arm	2 Nos.
15.	Book shelf with glass shutters	1 No.
16.	Air conditioner 1.5 / 2.0 tons (preferably split type) for CAD lab	4 Nos.
17.	Air conditioner 1.5 / 2.0 tons (preferably split type) for theory class room/Practical room	4 Nos.
18.	LAN connectivity	As per requirement
19.	Internet connection	1 No.
20.	Visualizer	1 No.
21.	Vacuum Cleaner	1 No.

**\*\*it may be as per requirement i.e. equal to no of trainees.**

**Mouse & Keyboard should be treated as Raw Material.**

### **Audio Visual Aids**

<b>Sl no.</b>	<b>Name of the item</b>	<b>Quantity</b>
1.	LCD Projector	1 No.
2.	Interactive Board	1 No.

### G. LIST OF TRADE COMMITTEE MEMBERS

Sl. No.	Name & Designation Sh./Mr./Ms.	Organization	Mentor Council Designation
14.	Prof. Nirjhar Dhang. (H.O.D)	Dept. of Civil Engg. IIT Kharagpur	Chairman
15.	Col. N. B. Saxena.	Construction Skill Development Council of India (CSDCI)	Member
16.	Satish Gottipati. (M. D.)	Preca Solutions (E)	Member
17.	Meena Raghunathan. (Director, Community Science.)	GMRU Foundation, Hyderabad.	Member
18.	Arpana Singh (Training Officer)	N.V.T.I (W) Noida.	Member
19.	S. R. Vhatkar. (Training Officer.)	ATI, Kolkata. Dasnagar, Howrah.	Member
20.	A. K. Naskar. (Training Officer.)	ATI, Kolkata. Dasnagar, Howrah.	Member
21.	S. Chockalingam. (Training Officer.)	CTI, Chennai,	Member
22.	Tapan Kr. Halder. (Training Officer.)	RDAT, Kanpur.	Member
23.	D. K. Chattopadhyay. (Training Officer.)	ATI, Kolkata. Dasnagar, Howrah.	Member
24.	P. Karithashankar. (V. I.)	N.V.T.I (W) Noida.	Member