

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



S.P.G. Chidambara Nadar - C. Nagammal Campus,  
S.P.G.C. Nagar, K. Vellakulam - 625 701, Near Virudhunagar, Madurai District.  
Accredited by NAAC with 'A' Grade

Submitted to the SECRETARY for approval through the PRINCIPAL

Book No.

CIVIL

SL No.

50

Date 18.04.2022

Approval may please be granted to  
Conduct Value-added Course for Third year  
Civil Engineering Students from 27 April, 2022 to  
30 April, 2022.

Name of the Course: Purchase

Name of the Training organization: SKP Engineering Services

Channel:

Quotation Enclosed.

Signature of Faculty

HOD

PRINCIPAL

### OFFICE USE

- 1) Budget allotted
- 2) Amount committed / Spent so far
- 3) Balance available

Value Added Courses  
: Negotiation to be arranged  
with Secretary

OM

Treasurer

Secretary



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S.P.G.C. Nagar, K. Vellakulam - 625 701 (Near VIRUDHUNAGAR)

## DEPARTMENT OF CIVIL ENGINEERING

### Circular

13.05.2022

The Department of Civil Engineering has planned to conduct a value-added course on Primavera for third-year Civil Engineering students from 16.05.2022 to 19.05.2022. The resource people is coming from the SKP Engineering Services, Chennai. In this connection, all are instructed to attend the training without fail.

  
HOD/CIVIL

#### Copy to:

1. To read in class room
2. Department notice board
3. IQAC cell

## Value added course on Primavera P6 Syllabus

Total Duration: 32 hours

### Topics Covered

Basic Concept of Project Management

UI of P6 Client

### **ROAD MAP**

✓ **Initiation**

EPS Creation – Enterprise Project Structure

OBS Creation – Organizational Breakdown Structure

Assigning OBS to EPS

Project Creation, Open, Close & delete Project

✓ **Planning**

**A. Scheduling**

1. Calendar Creation & Assigning

2. WBS Creation – Work Breakdown Structure

3. Activities Creation

4. Duration

5. Relationship

6. Critical path Method

**B. Costing**

1. Resource Creation

2. Resource Assigning

✓ **Baseline Creation & Assigning**

✓ **Execution**

➤ **UPDATION**

1. Manual Updation

## 2. Automatic Updation

### ✓ Monitoring & Controlling

#### 1. EVM – Earned Value Management

### ✓ Closure

#### A. Report Generation

1. Graphical report
2. Textual report

## Course Outcome

- Effective Scheduling
- Identify Critical Path of the project
- Better utilization of resource
- Project Progress Update
- Monitoring & Controlling project using Earned Value Management
- Reporting Skills



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## DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE MEETING OF FOURTH BOARD OF STUDIES MEETING HELD ON 15-03-2022 AT 2:00 PM IN ONLINE MODE TOWARDS CONSIDERING THE PROPOSED R2021 UG PROGRAMME, B.E. - CIVIL ENGINEERING CURRICULUM & SYLLABI (III SEMESTER AND IV SEMESTER), UG RELATED AMENDMENTS AND DISCUSSIONS, COMMON CURRICULUM IN THE DEPARTMENT OF CIVIL ENGINEERING.

Platform: Microsoft Teams

Meeting Link: <https://tinyurl.com/2ajaedwh>

Dr. R. Lakshmi / Head of the Department - (Department of Civil Engineering) welcomed all the members of the Board of Studies and Faculty members of Civil Engineering department to the fourth BOS meeting.

The following members were present:

S.No	Name of the Expert	Designation	Capacity
1	Dr.G.Chitra	Professor Department of Civil Engineering Thiagarajar College of Engineering Madurai	Anna University Nominee
2	Dr.S.Jayalekshmi	Professor Department of Civil Engineering NIT	Expert member Nominated by Academic council

	Trichy		
3	Dr.G.Janarthanan Associate Professor Center for Environmental Management NITTTR CSIR Road Chennai	Expert member Nominated by Academic council	
4	Er.L.Balaji International Professional Engineer & Registered Valuer	Industrialist Nominat	
5	Er.P.Karthick Project Associate SERC Chennai	Alumni Nominat	

Dr.R.Lakshmi (Head of the Department) Department of Civil Engineering welcomed the entering and gave a brief introduction about the Expert members, alumni and faculty members in the Department of Civil Engineering, and the programme agenda. Dr.S.P.Murali Kannan Co-ordinator UG Courses started the general discussion with R2021 UG Programme curriculum and syllabi of 3<sup>rd</sup> and 4<sup>th</sup> semester of Civil Engineering and Mr.N.Jegan Durai Co-ordinator BOS Co-ordinator continued with detailed explanation of the suggestions and recommendations received from all stakeholders for Regulation 2021 and presented the same.

**Questions and Recommendations:**

HOD/CIVIL gave a brief presentation about the department and review of the Minutes of Third Bos meeting.

Mr.N.Jegan Durai (Department BOS Co-ordinator) presented the R2021 UG Curriculum, Curriculum for B.E. - CIVIL (3<sup>rd</sup> and 4<sup>th</sup> semester.)

**CURRICULUM - III AND IV SEMESTER (R2021)  
SEMESTER III**

S.No	Name	Designation	COURSE CODE	COURSE TITLE	CATEG ORY	PERIODS			TOTAL CONTACT PERIODS	CREDITS
						PER WEEK	T	P		
1.	Dr.R.Lakshmi	Professor and Head / CIVIL, Chairman of Bos - CIVIL								
2.	Dr. S.P.Murali Kannan	Assistant Professor / CIVIL								
3.	Mrs.S.Thahira Banu (Ph.D.,)	Assistant Professor / CIVIL								
4.	Mr.P.Ponkardhkeyan (Ph.D.,)	Assistant Professor / CIVIL								
5.	Mr.N.Jegan Durai (Ph.D.,)	Assistant Professor / CIVIL								
6.	Mr.D.Velumani (Ph.D.,)	Assistant Professor / CIVIL								
7.	Mr.A.Krishnamoorthy	Assistant Professor / CIVIL								
8.	Mr.M.Subbar (Ph.D.,)	Assistant Professor / CIVIL								
9.	Mr.P.Ganesh Prabhhu (Ph.D.,)	Assistant Professor / CIVIL								
10.	Mrs B Deepa (Ph.D.,)	Assistant Professor / CIVIL								
11.	Mr.R.Ganesh	Assistant Professor / CIVIL								
12.	Ms.S.Brintha	Assistant Professor / CIVIL								
13.	Mrs.R.Sangeetha	Assistant Professor / CIVIL								
14.	Mr.K.Haribaran	Assistant Professor / CIVIL								
<b>EOUY</b>										
			MA2201	Transforms and Boundary Value Problems	BS	3	1	0	4	4
			CE2201	Construction Materials	PC	3	0	0	3	3
			CE2202	Fluid Mechanics	PC	3	0	0	3	3
			CE2203	Mechanics of Solids	PC	3	0	0	3	3

5.	CE2304	Surveying	PC	3	0	0	0	3	3
6.	GE2301	Design Thinking	GE	3	0	0	0	3	3
7.	Audit Course - 1			3	0	0	0	3	0
PRACTICAL		Computer Aided Building							
8.	CE2305	Drawing Laboratory	PC	0	0	4	4	4	2
9.	CE2306	Surveying Laboratory	PC	0	0	4	4	4	2
10.	SH2301	Interpersonal Skills - Listening and Speaking	EEC	0	0	2	2	2	1
TOTAL				21	1	10	32	24	24

**SEMESTER IV**

SL No.	COURSE CODE	COURSE TITLE	CATEG ORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MA2351	Probability, Statistics and Numerical Methods	BS	3	1	0	4	4
2.	CE2351	Applied Hydraulic Engineering	PC	3	0	0	3	3
3.	CE2352	Concrete Technology	PC	3	0	0	3	3
4.	CE2353	Construction techniques, Equipment and Practice	PC	3	0	0	3	3
5.	CE2354	Soil Mechanics	PC	3	0	0	3	3
6.	CE2355	Strength of Materials	PC	3	1	0	4	4
7.	Audit Course - II			3	0	0	3	0

**CITICAL**

CE2356	Strength of Materials Laboratory	PC	0	0	4	4	2
CE2357	Soil Mechanics Laboratory	PC	0	0	4	4	2
HS1421	An Introduction to Advanced Reading and Writing	EEC	0	0	2	2	1
TOTAL			21	1	10	33	25

**ONLINE COURSES**

of Online Courses (NPTEL / Swayam) - need to be updated based on the courses available ng the respective semester.

**LIST OF VALUE ADDED COURSES**

Year	Course Name
II	Microsoft office and Sketchup
III	Revit Architecture and Total Station Surveying
IV	Navisworks and Tekla Structures

following suggestions were given by the BOS Members:

- HOD/CIVIL briefed about the minutes of the previous BOS meeting to all the stakeholders.
- Approval of Third BoS recommendations was reviewed and accepted by the committee.

**rules of Meeting of IV BoS:**

- Following the above discussions the Amendments made in UG- syllabus and online courses were also briefed.
- Dr.G. Chitra, Anna University Nominee suggested that two units of geology mentioned in the course - Construction materials can be combined as one unit. Recommended that additional weightage be allotted in the subject Construction



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## DEPARTMENT OF CIVIL ENGINEERING

### Three Members Committee – Minutes of Meeting for Value Added Course

Date: 06.03.2022

Agenda		Value Added Course selection meeting
Date	:	06.03.2022
Time	:	2 pm
Members Present	:	<b>Three Members Committee Member</b> 1.Dr.R.Lakshmi, HOD/Civil 2.Mr.N.Jegandurai, AP/Civil 3.Mr.P.Ganeshprabhu, AP/Civil <b>UG Coordinator</b> 4. Dr.SP.Muralikannan
Minutes of Meeting	:	<p>A three member committee has been formed and a meeting is organized to select value added course for third year Civil Engineering students.</p> <p>Meeting started by 2pm. Dr.R.Lakshmi, HOD/Civil, welcome the gathering.</p> <p>Mr.N.Jegandurai, AP/Civil subject expert has proposed various courses. Those courses are listed below.</p> <ol style="list-style-type: none"><li>1. Primavera</li><li>2. Total station surveying</li><li>3. Revit Architecture</li></ol>



During the BOS meeting, Dr.G.Chitra, BOS member, recommended conducting the Primavera course. Hence, Dr.R.Lakshmi, HOD/Civil, has recommended to prefer Primavera course.


Mr.N.Jegandurai, AP/Civil, Subject Expert, has recommended this course because it will help to understand the construction planning and scheduling process.

Dr.SP.Muralikannan, UG Coordinator, and P.Ganeshprabhu, Placement Coordinator, have also recommended to offer Primavera course. In current scenario, this course is in huge demand in industry.


Based on the suggestion given by the committee, the Primavera course was accepted to be conducted as a value-added course for Third-year Civil Engineering students. Justification for the Course selection:

1. This course will improve employability skills
2. This course will improve their understanding in Construction planning and Scheduling
3. This course will support students to satisfy industry needs


**UG Coordinator**


  
Dr.SP.Muralikannan

**Subject Expert,**

  
Mr.N.Jegandurai

**Value Added Course  
Co-ordinator**

  
Mr.P.Ganeshprabhu

  
HOD/Civil

Dr.R.Lakshmi



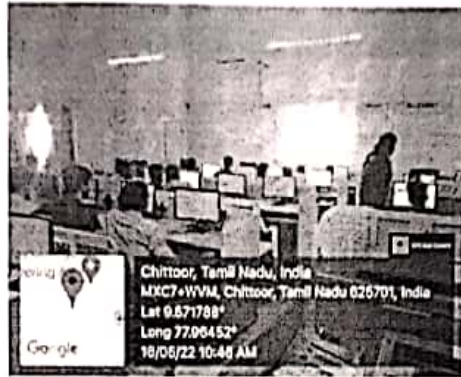
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## Department of Civil Engineering

Value Added Course on 3D Studio Max

Geo-Tagged Photos

Day 1



Day 2



Day 3



Day 4





**SKP ENGINEERING SERVICE**  
Engineering Training and Consultants

# CERTIFICATE OF PARTICIPATION

— Value Added Course on Primavera

AWARDED TO : DEEPAN SANKARESH.T

CONDUCTED AT : Kamaraj College of Engineering and Technology

16-05-2022

Start Date

19-05-2022

End Date

*M. S. R.*

Authorized Signatory

2nd floor, Nathan's Arcade, Malaviya Ave, Thiruvannmiyur, Chennai-41



**SKP ENGINEERING SERVICE**  
Engineering Training and Consultants

# CERTIFICATE OF PARTICIPATION

## Value Added Course on Primavera

AWARDED TO : MOHAMED BAIZUL KASAN.P

CONDUCTED AT : Kamaraj College of Engineering and Technology

16-05-2022

Start Date

19-05-2022

End Date

Authorized Signatory

2nd floor, Nathan's Arcade, Malaviya Ave, Thiruvannamiyur, Chennai-41

# Test Conducted for the student

## Primavera – Power Plant Project

### Follow the Steps:

1. create a Calendar with an hour break in between with timings starting from 9.00am to 6.00pm. The number of working days per week 7days. Give holiday as 1<sup>st</sup> January 21, 26<sup>th</sup> January 21, 2<sup>nd</sup> April 21, 14<sup>th</sup> April 21, 15<sup>th</sup> August 21, 2<sup>nd</sup> October 21, 15<sup>th</sup> October 21, 4<sup>th</sup> November 21, 25<sup>th</sup> December 21, 1<sup>st</sup> January 22, 26<sup>th</sup> January 22, 2<sup>nd</sup> April 22, 14<sup>th</sup> April 22, 15<sup>th</sup> August 22, 2<sup>nd</sup> October 22, 24<sup>th</sup> October 22, 25<sup>th</sup> November 22, 25<sup>th</sup> December 22. (Specify holidays for 2021 & 2022)
2. Project Starts on 5<sup>th</sup> April 2021.
3. Project Duration should be 500 days.
4. Project Completion date till scheduling 27<sup>th</sup> August 2022.

### Activity:

Activity ID no	Activity Name	Duration	Start Date	Finish Date	Resource Assignment
1.1	Engineering Phase		05-04-2021 09:00	07-11-2021 18:00	
1.1.1	Basic Engineering		05-04-2021 09:00	22-06-2021 18:00	
Engineering 1000	10% OF ADVANCE FROM CUSTOMER	0	05-04-2021 09:00	05-04-2021 09:00	
Engineering 1010	SUBMISSION OF PLOT PLAN	8 days	05-04-2021 09:00	12-04-2021 18:00	Design Engineer, Draft Man
Engineering 1020	APPROVAL OF PLOT PLAN	16 days	13-04-2021 09:00	29-04-2021 18:00	Design Engineer

Engineering	BORE HOLE LOCATION DETAILS	16 days	30-04-2021 09:00	15-05-2021 18:00	Design Engineer, Draft Man
Engineering 1030	SOIL INVESTIGATION REPORT	18 days	16-05-2021 09:00	02-06-2021 18:00	Design Engineer
Engineering 1040	KOM WITH CUSTOMER	2 days	03-06-2021 09:00	04-06-2021 18:00	Design Engineer
Engineering 1050	SUBMISSION OF SLD	10 days	05-06-2021 09:00	14-06-2021 18:00	Design Engineer, Draft Man
Engineering 1060	APPROVAL OF SLD	8 days	15-06-2021 09:00	22-06-2021 18:00	Design Engineer
Engineering 1070	SUBMISSION OF C&I ARCHITECT	5 days	05-06-2021 09:00	09-06-2021 18:00	Design Engineer [2], Draft Man[2]
Engineering 1080	APPROVAL OF C&I ARCHITECT	8 days	10-06-2021 09:00	17-06-2021 18:00	Design Engineer
Engineering 1090	Detailed Engineering		23-06-2021 09:00	07-11-2021 18:00	
1.1.2	Civil Engineering		23-06-2021 09:00	30-07-2021 18:00	Design Engineer, Draft Man
1.1.2.1	STAAD DESIGN	20 days	23-06-2021 09:00	12-07-2021 18:00	Design Engineer, Draft Man
Engineering 1100	LAYOUT & RCC DETAILS OF FOUNDATION	18 days	13-07-2021 09:00	30-07-2021 18:00	Design Engineer, Draft Man
Engineering 1110	Mechanical Engineering		31-07-2021 09:00	30-08-2021 18:00	
1.1.2.2	BOILER ERCTION DRAWING	30 days	31-07-2021 09:00	30-08-2021 18:00	Design Engineer, Draft Man
Engineering 1120	Piping Engineering		31-08-2021 09:00	04-10-2021 18:00	
1.1.2.3	PIPING LAYOUT	20 days	31-08-2021 09:00	19-09-2021 18:00	Design Engineer, Draft Man
Engineering 1130	IBR & NIBR ISO DRAWINGS	14 days	20-09-2021 09:00	04-10-2021 18:00	Design Engineer, Draft Man
Engineering 1140	Electrical Engineering		31-08-2021 09:00	14-10-2021 18:00	
1.1.2.4	CABLE TRAY ROUTING	32 days	31-08-2021 09:00	01-10-2021 18:00	Design Engineer, Draft Man
Engineering 1150	CABLE SCHEDULE	6 days	03-10-2021 09:00	08-10-2021 18:00	Design Engineer [2], Draft Man [2]
Engineering 1160	LIGHTING LAYOUT	16 days	31-08-2021 09:00	15-09-2021 18:00	Design Engineer, Draft Man
Engineering 1170					

Engineering 1180	KEY SLD FOR MCC & PMCC	6 days	09-10-2021 09:00	14-10-2021 18:00	Design Engineer [2], Draft Man [2]
1.1.2.5	Instrumentation Engineering		16-10-2021 09:00	07-11-2021 18:00	
Engineering 1190	I/O LIST	6 days	16-10-2021 09:00	21-10-2021 18:00	Design Engineer, Draft Man
Engineering 1200	INSTRUMENTATION HOOKUP	16 days	22-10-2021 09:00	07-11-2021 18:00	Design Engineer, Draft Man
1.2	Procurement Phase		31-07-2021 09:00	21-12-2021 18:00	
1.2.1	Pre Order		31-07-2021 09:00	16-09-2021 18:00	
Procurement 1210	RECEIPT OF TECHNICAL SPECS	11 days	31-07-2021 09:00	10-08-2021 18:00	Buyer
Procurement 1220	RECEIPT OF OFFER	11 days	11-08-2021 09:00	22-08-2021 18:00	Buyer
Procurement 1230	OFFER APPROVAL	11 days	23-08-2021 09:00	02-09-2021 18:00	Buyer
Procurement 1240	NEGOTIATION & ORDER PLACEMENT	14 days	03-09-2021 09:00	16-09-2021 18:00	Buyer [2]
1.2.2	Post Order		17-09-2021 09:00	21-12-2021 18:00	
Procurement 1250	RELEASE OF PO	14 days	17-09-2021 09:00	30-09-2021 18:00	Buyer
Procurement 1260	MANUFACTURING CLEARANCES	5 days	01-10-2021 09:00	06-10-2021 18:00	Buyer
Procurement 1270	MANUFACTURING COMPLETION	30 days	07-10-2021 09:00	07-11-2021 18:00	Buyer
Procurement 1280	INSPECTION	14 days	08-11-2021 09:00	21-11-2021 18:00	Buyer, QC Engineer
Procurement 1290	MATERIAL RECEIPT AT SITE	30 days	22-11-2021 09:00	21-12-2021 18:00	Buyer, Structural Material [160], Pressure Parts[1], Non Pressure Parts[1], Piping Material[1], Electrical Material[1], RMC Material[400]
1.3	Construction Phase		30-04-2021 09:00	04-07-2022 18:00	



Construction 1300	MOBILISATION OF CONTRACTORS	20 days	30-04-2021 09:00	19-05-2021 18:00	Civil Engineer
Construction 1310	SITE MOBILISATION	10 days	20-05-2021 09:00	29-05-2021 18:00	Civil Engineer, Labor [20]
Construction 1320	LABOR COLONY	20 days	30-05-2021 09:00	18-06-2021 18:00	Labor [20]
Construction 1330	AVAILABILITY OF CONSTRUCTION POWER	10 days	19-06-2021 09:00	28-06-2021 18:00	Labor [20]
Construction 1340	AVAILABILITY OF CONSTRUCTION WATER	10 days	29-06-2021 09:00	08-07-2021 18:00	Labor [20]
1.3.2	Civil Works		22-12-2021 09:00	22-01-2022 18:00	
Construction 1350	FOUNDATION WORKS	30 days	22-12-2021 09:00	22-01-2022 18:00	Civil Engineer, Labor [20], Excavator, RMC Machine
1.3.3	Mechanical Works		23-01-2022 09:00	14-03-2022 18:00	
Construction 1360	ERECTION OF STRUCTURE	30 days	23-01-2022 09:00	22-02-2022 18:00	Mechanical Engineer, Labor [20], Hydraulic Crane
Construction 1370	ERECTION OF PRESSURE PARTS	20 days	23-02-2022 09:00	14-03-2022 18:00	Mechanical Engineer, Labor [20], Hydraulic Crane
Construction 1380	ERECTION OF NON PRESSUREPARTS	20 days	23-02-2022 09:00	14-03-2022 18:00	Mechanical Engineer, Labor [20], Hydraulic Crane
Construction 1390	HYDRO TEST	0		14-03-2022 18:00	
1.3.4	Piplng Works		15-03-2022 09:00	24-04-2022 18:00	
Construction 1400	ERECTION OF IBR & NIBR PIPING	40 days	15-03-2022 09:00	24-04-2022 18:00	Mechanical Engineer [2], Labor [8], Hydraulic Crane
1.3.5	Electrical Works		15-03-2022 09:00	03-07-2022 18:00	
Construction 1410	ERECTION OF MCC & PMCC PANELS	16 days	15-03-2022 09:00	30-03-2022 18:00	Electrical Engineer [2], Labor [8]
Construction 1420	ERECTION OF CABLE TRAY	34 days	31-03-2022 09:00	04-05-2022 18:00	Electrical Engineer [2], Labor [8]

Construction 1430	ERECTION CABLING	30 days	05-05-2022 09:00	03-06-2022 18:00	Electrical Engineer [2], Labor [20]
Construction 1440	ERECTION OF LIGHTING	30 days	04-06-2022 09:00	03-07-2022 18:00	Electrical Engineer, Labor [8]
1.3.6	Instrumentation Works		31-03-2022 09:00	03-06-2022 18:00	
Construction 1450	DCS PANEL ERECTION	14 days	31-03-2022 09:00	13-04-2022 18:00	C&I Engineer
Construction 1460	INSTRUMENT ERECTION	30 days	15-04-2022 09:00	14-05-2022 18:00	C&I Engineer
Construction 1470	INSTRUMENT CALIBRATION	20 days	15-05-2022 09:00	03-06-2022 18:00	Labor [16]
1.4	Commissioning		04-07-2022 09:00	27-08-2022 18:00	
1.4.1	Pre Commissioning		04-07-2022 09:00	27-07-2022 18:00	
Commissioning 1480	TRIAL RUN OF MOTORS & PUMPS	6 days	04-07-2022 09:00	09-07-2022 18:00	Mechanical Engineer, Electrical Engineer, C&I Engineer, Labor [20]
Commissioning 1490	BOILER LIGHTUP	2 days	10-07-2022 09:00	11-07-2022 18:00	Mechanical Engineer, Electrical Engineer, C&I Engineer, Labor [20]
Commissioning 1500	STEAM BLOWING	14 days	12-07-2022 09:00	25-07-2022 18:00	Mechanical Engineer, Electrical Engineer, C&I Engineer, Labor [20]
Commissioning 1510	SAFETY VALVE FLOATING	2 days	26-07-2022 09:00	27-07-2022 18:00	Mechanical Engineer, Electrical Engineer, C&I Engineer, Labor [20]
1.4.2	Post Commissioning		28-07-2022 09:00	27-08-2022 18:00	
Commissioning 1520	PUNCH POINT CLOSURE	30 days	28-07-2022 09:00	27-08-2022 18:00	Mechanical Engineer, Electrical Engineer, C&I Engineer, Labor [20]
Commissioning 1530	HANDING OVER TO O&M TEAM	0		27-08-2022 18:00	

**Resources:**

RES NAME	MAX	PRICE/UNIT
DESIGN ENGINEER	2	3000/d
DRAFT MAN	2	300/h
BUYER	2	3000/d
CIVIL ENGINEER	1	3000/d
MECHANICAL ENGINEER	1	3000/d
ELECTRICAL ENGINEER	1	3000/d
C&I ENGINEER	1	3000/d
LABOR	20	500/d
QC ENGINEER	1	3000/d
EXCAVATOR	1	300/h
RMC MACHINE	1	300/h
HYDRAULIC CRANE	1	700/h
RMC MATERIAL	-	1500/CUBIC METRE
STRUCTURAL MATERIAL	-	4000/METRIC TON
PRESSURE PARTS	-	7,00,000/SET
NON PRESSURE PARTS	-	5,99,400/SET
PIPING MATERIAL	-	4,00,000/LUMP SUM
ELECTRICAL MATERIAL	-	4,00,000/LUMP SUM

### Critical path Analysis Calculation:

Activity name	Duration	Relationship(p)
A	5	-
B	6	A
C	4	B
D	3	B
E	2	C, D
F	1	E
A	3	-
B	4	A
C	2	A
D	5	B
E	1	C
F	2	C
G	4	D, E
H	3	F, G

## **Earned Value Management:**

Task – Develop and Install Ten Printer Drivers.

- Budget – Rs. 100000 (Rs. 10, 000 per Printer driver)
- Time - 10 Weeks (1 Printer driver per week)

At week 5:

- 4 Printer drivers developed and Installed
- Rs. 47, 5500 spent to date



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K.P.O. Chembur Road - C Nagar Road Campus  
K.P.O. Nagar, K. Velankanni - 625 701 (Near VIRUDHUNAGAR)

## Department of Civil Engineering

Value Added Course on Primavera

### Attendance Sheet

Basic Concepts of PM, EPS Creation, OBS project, open & close project

Course Content: Calendar Creation & Assigning Name of the Trainer: Ramya M  
Date: 16-05-2022 Session: Forenoon

Sl. No.	Roll No.	Student Name	Signature
1.	19UCIV001	MANIRAJ.S	
2.	19UCIV002	MOHANKUMAR.K	
3.	19UCIV003	KAMARAJ.C	
4.	19UCIV004	MUKESH.R	
5.	19UCIV005	BLESSY.V	
6.	19UCIV006	SIVA ANAND.S.V	
7.	19UCIV007	AKASH.K	
8.	19UCIV008	VIJAYENDRAN.A	
9.	19UCIV009	RAJAMUNESWARAN.N	
10.	19UCIV010	KABILAN.M	
11.	19UCIV011	PRANAB SHARMA	
12.	19UCIV012	MIRUTHUNCH RAM.J	
13.	19UCIV013	UMAIR ASHRAF BHAT	
14.	19UCIV014	MATHESH.S	
15.	19UCIV015	KARTHIK.V	
16.	19UCIV016	SANGESH.R	
17.	19UCIV017	SIVA.V	
18.	19UCIV018	KIRUBAJ	
19.	19UCIV020	ASWINI LAKSHMI.M	
20.	19UCIV021	AJAYKANNAN.A.A	
21.	19UCIV023	DEEPAN SANKARESH.T	
22.	19UCIV024	VANDHANAA.S	
23.	19UCIV025	MOHAMED BAIZUL KASAN.P	
24.	19UCIV026	C.SATHISH MEIKANDAN	
25.	19UCIV028	R.MANOJ	
26.	19UCIV029	P.KARTHICKRAJA	

Value Added Course In-charge

Name of the Trainer

Ramya M

HOD/CIVIL

[PART - A] 1x10 = 10

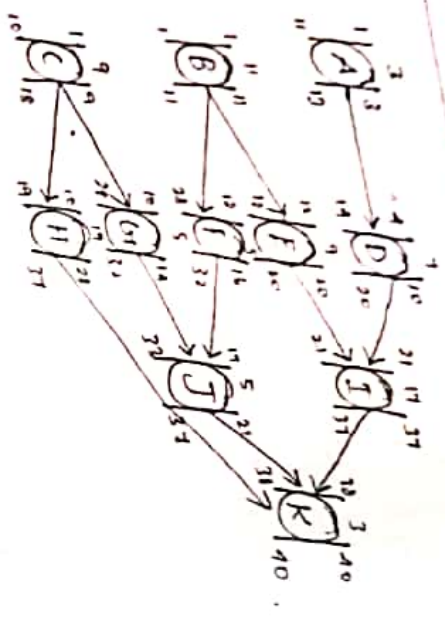
19001V001

7. Choose the best answer :-

- (1) Primavera was first launched in 1983
- (2) Primavera was first launched in Primavera was system incorporate
- (3) In which year primavera was take over by oracle  
Ans: 2008
- (4) Primavera Foundation is also known as  
Ans: Primavera client
- (5) Any work with definite start and end date will be called as  
Ans: Project
- (6) The process we need to perform to complete project are  
Ans: Activities
- (7) Primavera software implements which estimation techniques  
Ans: Bottom-up
- (8) Which method used to calculate the critical path in the project.  
Ans: Critical path method
- (9) Activity which cannot be delay during execution is  
Ans: Critical activity
- (10) When actual work runs as per plan without any deviation which updation method is used  
Ans: Automatic updation

Part B  
Critical Path and float

Activity	A	B	C	D	F	I	K	G	H
Duration	3	11	9	7	9	5	5	13	11



Part C  
1 x 20 = 20

VEPNEED VALUE MANAGEMENT

Track and forecast

Project Duration = 20 days  
Budget = 2,000 Rs

per day = 5% of work need to be completed  
= 100 Rs.

Status day = 14<sup>th</sup> day

Completed work = 50%, Budget spent = 1400 Rs.

Part D

BAC = 2,000

EV = 30%  $(2000 \times \frac{30}{100}) = 600$

FV = 50%  $(2000 \times \frac{50}{100}) = 1000$

AC = 1400

SV = -400

CV = -400

SPI = 0.71

CPI = 0.71

Return schedule & Budget over run

Forecasting:

Task I

ETC = 2000 - 1000 = 1000 Rs

EPC = 1000 + 1400 = 2400 Rs

VPC = 400 Rs

Task II

ETC = 1400.45 Rs

EPC = 2808.45 Rs

VPC = 808.45 Rs

Task III

ETC = 1983.74

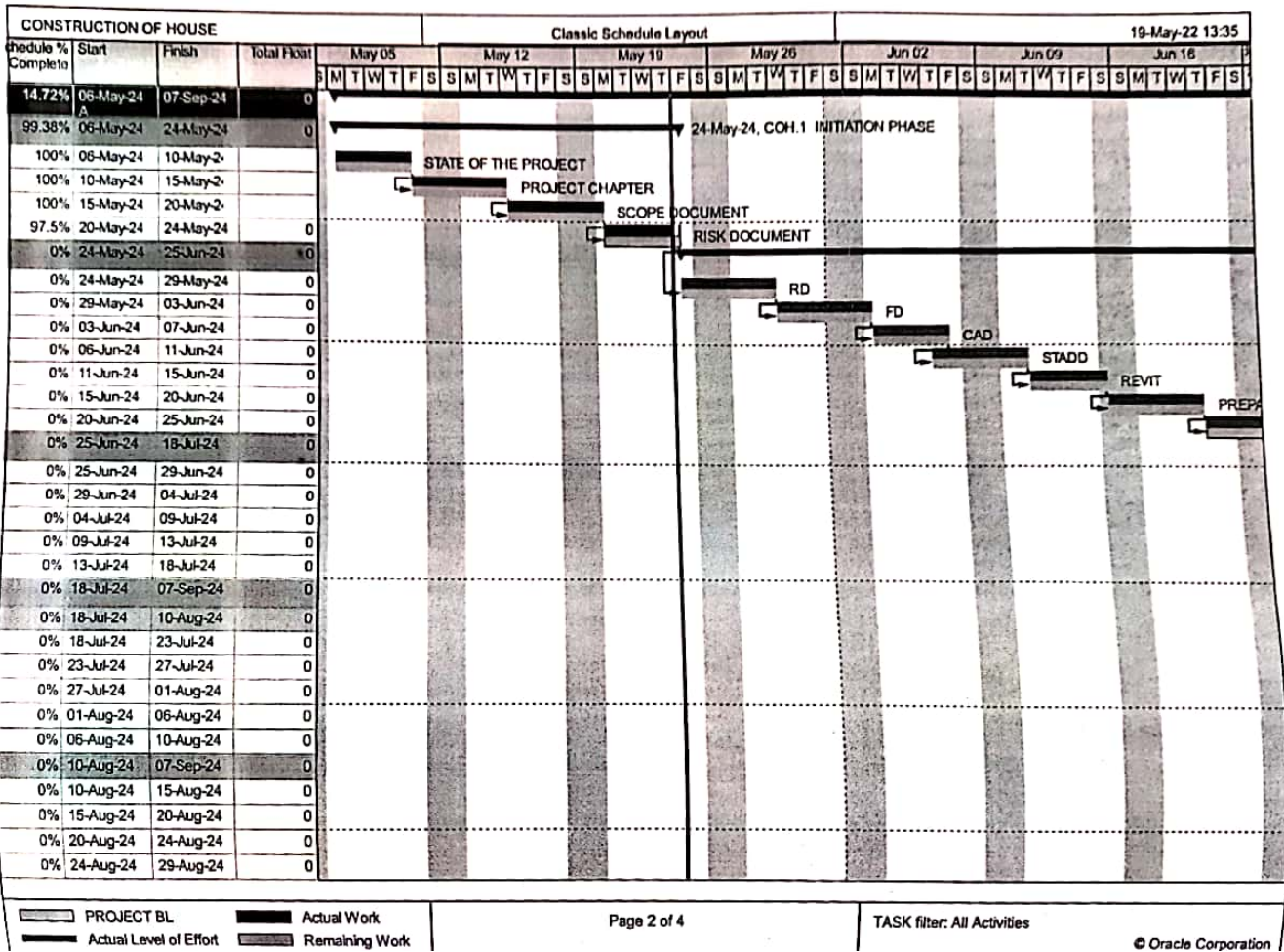
EPC = 3383.74

VPC = 1383.74



CONSTRUCTION OF HOUSE		Classic Schedule Layout				18-May-22 13:35		
Activity ID	Activity Name	BL Project Duration	BL Project Finish	BL Project Start	BL Project Total Cost	Original Duration	Remaining Duration	Module % Complete
<b>COH CONSTRUCTION OF HOI</b>		134	07-Sep-24	06-May-24	RS781,375.29	134	114	14.72%
<b>COH.1 INITIATION PHASE</b>		20	24-May-24	06-May-24	RS115,759.30	20	0	39.38%
A1000	STATE OF THE PROJECT	5	10-May-24	06-May-24	RS28,939.83	5	0	100%
A1010	PROJECT CHAPTER	5	15-May-24	10-May-24	RS28,939.83	5	0	100%
A1020	SCOPE DOCUMENT	5	20-May-24	15-May-24	RS28,939.83	5	0	100%
A1030	RISK DOCUMENT	5	24-May-24	20-May-24	RS28,939.83	5	0	97.5%
<b>COH.2 DESIGN PHASE</b>		34	25-Jun-24	24-May-24	RS202,578.78	34	34	0%
A1040	RD	5	29-May-24	24-May-24	RS28,939.83	5	5	0%
A1050	FD	5	03-Jun-24	29-May-24	RS28,939.83	5	5	0%
A1060	CAD	5	07-Jun-24	03-Jun-24	RS28,939.83	5	5	0%
A1070	STADD	5	11-Jun-24	06-Jun-24	RS28,939.83	5	5	0%
A1080	REVT	5	15-Jun-24	11-Jun-24	RS28,939.83	5	5	0%
A1090	PREPARATION OF DESIG	5	20-Jun-24	15-Jun-24	RS28,939.83	5	5	0%
A1100	5% OF MY PROJECT WO	5	25-Jun-24	20-Jun-24	RS28,939.83	5	5	0%
<b>COH.3 ESTIMATION &amp; PROCU</b>		25	18-Jul-24	25-Jun-24	RS144,699.13	25	25	0%
A1110	ANALYSIS OF DESIGN RE	5	29-Jun-24	25-Jun-24	RS28,939.83	5	5	0%
A1120	DEFINE RESOURCE	5	04-Jul-24	29-Jun-24	RS28,939.83	5	5	0%
A1130	ESTIMATE RESOURCE	5	09-Jul-24	04-Jul-24	RS28,939.83	5	5	0%
A1140	IDENTIFY PROJECT VENI	5	13-Jul-24	09-Jul-24	RS28,939.83	5	5	0%
A1150	CONDUCT PROCUREME	5	18-Jul-24	13-Jul-24	RS28,939.83	5	5	0%
<b>COH.4 CONSTRUCTION PHAS</b>		55	07-Sep-24	18-Jul-24	RS318,318.08	55	55	0%
<b>COH.4.1 FOUNDATION</b>		25	10-Aug-24	18-Jul-24	RS144,699.13	25	25	0%
A1160	SC	5	23-Jul-24	18-Jul-24	RS28,939.83	5	5	0%
A1170	SM	5	27-Jul-24	23-Jul-24	RS28,939.83	5	5	0%
A1180	EXCAVATION	5	01-Aug-24	27-Jul-24	RS28,939.83	5	5	0%
A1190	RIT & CON WORK OF FO	5	06-Aug-24	01-Aug-24	RS28,939.83	5	5	0%
A1200	COLUMN RAISING	5	10-Aug-24	06-Aug-24	RS28,939.83	5	5	0%
<b>COH.4.2 GF</b>		30	07-Sep-24	10-Aug-24	RS173,638.95	30	30	0%
A1210	PLINTH LEVEL	5	15-Aug-24	10-Aug-24	RS28,939.83	5	5	0%
A1220	RAISING OF COLUMN	5	20-Aug-24	15-Aug-24	RS28,939.83	5	5	0%
A1230	WALL CONSTRUCTION	5	24-Aug-24	20-Aug-24	RS28,939.83	5	5	0%
A1240	BEAM CONSTRUCTION	5	29-Aug-24	24-Aug-24	RS28,939.83	5	5	0%





# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO Anna University, Chennai)  
 S.P.O. Chidambaram Road - C. Nagarajapuram  
 S.P.O.C. Nagar, K. Velupillai - 625 701 (Near VIRUDHUNAGAR)

## Department of Civil Engineering

Value Added Course on Primavera

### Assignment Score Sheet

Sl. No.	Roll No.	Student Name	Total 40 Marks
1.	19UCIV001	MANIRAJ.S	38
2.	19UCIV002	MOHANKUMAR.K	40
3.	19UCIV003	KAMARAJ.C	36
4.	19UCIV004	MUKESH.R	35
5.	19UCIV005	BLESSY.V	40
6.	19UCIV006	SIVA ANAND.S.V	40
7.	19UCIV007	AKASH.K	38
8.	19UCIV008	VIJAYENDRAN.A	36
9.	19UCIV009	RAJAMUNESWARAN.N	35
10.	19UCIV010	KABILAN.M	40
11.	19UCIV011	PRANAB SHARMA	38
12.	19UCIV012	MIRUTHUNCH RAM.J	39
13.	19UCIV013	UMAIR ASHRAF BHAT	38
14.	19UCIV014	MATHESH.S	40
15.	19UCIV015	KARTHIK.V	38
16.	19UCIV016	SANGESH.R	34
17.	19UCIV017	SIVA.V	36
18.	19UCIV018	KIRUBA.J	40
19.	19UCIV020	ASWINI LAKSHMI.M	38
20.	19UCIV021	AJAYKANNAN.A.A	40
21.	19UCIV023	DEEPAN SANKARESH.T	36
22.	19UCIV024	VANDHANAA.S	40
23.	19UCIV025	MOHAMED BAIZUL KASAN.P	36
24.	19uciv026	C.SATHISH MEIKANDAN	40
25.	19uciv028	R.MANOJ	38
26.	19uciv029	P.KARTHICKRAJA	36

Value Added Course In-charge

Signature of the Trainer

  
HOD/CIVIL

# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO APJIA UNIVERSITY, CHENNAI)  
 S.P.O. Chokkikulam Road - C Regional Campus  
 S.P.O. Nagar, K. Velankulam - 625 701 (Near VIRUDHUNAGAR)

## Department of Civil Engineering

Value Added Course on Primavera

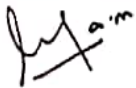
### Score Sheet

Date:

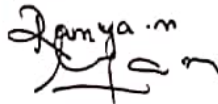
Session:

Sl. No.	Roll No.	Student Name	Part A 30 Marks	Part A 30 Marks	Total 60 Marks
1.	19UCIV001	MANIRAJ.S	25	30	55
2.	19UCIV002	MOHANKUMAR.K	20	25	45
3.	19UCIV003	KAMARAJ.C	25	30	55
4.	19UCIV004	MUKESH.R	25	30	55
5.	19UCIV005	BLESSY.V	28	28	56
6.	19UCIV006	SIVA ANAND.S.V	25	30	55
7.	19UCIV007	AKASH.K	20	20	40
8.	19UCIV008	VIJAYENDRAN.A	15	20	35
9.	19UCIV009	RAJAMUNESWARAN.N	15	20	35
10.	19UCIV010	KABILAN.M	28	28	56
11.	19UCIV011	PRANAB SHARMA	28	28	56
12.	19UCIV012	MIRUTHUNCH RAM.J	13	12	25
13.	19UCIV013	UMAIR ASHRAF BHAT	28	28	56
14.	19UCIV014	MATHESH.S	20	15	35
15.	19UCIV015	KARTHIK.V	25	30	55
16.	19UCIV016	SANGESH.R	25	30	55
17.	19UCIV017	SIVA.V	28	28	56
18.	19UCIV018	KIRUBAJ	28	28	56
19.	19UCIV020	ASWINI LAKSHMI.M	25	20	45
20.	19UCIV021	AJAYKANNAN.A.A	15	20	35
21.	19UCIV023	DEEPAN SANKARESH.T	15	20	35
22.	19UCIV024	VANDHANAA.S	28	28	56
23.	19UCIV025	MOHAMED BAIZUL KASAN.P	25	30	55
24.	19uciv026	C.SATHISH MEIKANDAN	20	15	35
25.	19uciv028	R.MANOJ	28	28	56
26.	19uciv029	P.KARTHICKRAJA	28	28	56

Value Added Course In-charge



Signature of the Trainer



HOD/CIVIL



**Department of Civil Engineering**

Value Added Course on Primavera

Test Report

Date: 19.05.2022

Session: FN

Sl. No.	Roll No.	Student Name	Assignment 40 Marks	Assessment 30 Marks	Total 100 Marks
1.	19UCIV001	MANIRAJ.S	38	55	93
2.	19UCIV002	MOHANKUMAR.K	40	45	85
3.	19UCIV003	KAMARAJ.C	36	55	91
4.	19UCIV004	MUKESH.R	35	55	90
5.	19UCIV005	BLESSY.V	40	56	96
6.	19UCIV006	SIVA ANAND.S.V	40	55	95
7.	19UCIV007	AKASH.K	38	40	78
8.	19UCIV008	VIJAYENDRAN.A	36	35	71
9.	19UCIV009	RAJAMUNESWARAN. N	35	35	70
10.	19UCIV010	KABILAN.M	40	56	96
11.	19UCIV011	PRANAB SHARMA	38	56	94
12.	19UCIV012	MIRUTHUNCH RAM.J	39	25	64
13.	19UCIV013	UMAIR ASHRAF BHAT	38	56	94
14.	19UCIV014	MATHESH.S	40	35	75
15.	19UCIV015	KARTHIK.V	38	55	93
16.	19UCIV016	SANGESH.R	34	55	89
17.	19UCIV017	SIVA.V	36	56	92
18.	19UCIV018	KIRUBA.J	40	56	96
19.	19UCIV020	ASWINI LAKSHMI.M	38	55	93
20.	19UCIV021	AJAYKANNAN.A.A	40	35	75
21.	19UCIV023	DEEPAN SANKARESH.T	36	35	71
22.	19UCIV024	VANDHANAA.S	40	56	96
23.	19UCIV025	MOHAMED BAIZUL KASAN.P	36	55	91
24.	19uciv026	C.SATHISH MEIKANDAN	40	35	75
25.	19uciv028	R.MANOJ	38	56	94
26.	19uciv029	P.KARTHICKRAJA	36	56	92

Value Added Course In-charge

HOD/CIVIL

DEAN ACADEMIC

4/7/2022

# Overall Feedback-Value Added Course- Primavera

24  
Responses

02:18  
Average time to complete

Active  
Status

Your Name

24  
Responses

Latest Responses

"V.Siva."

"T DEEPAN SANKARESH"

"Rajamuneeswaran. N"

respondents (4%) answered J MIRUTHUNCH RAM for this question.

Mukesh vijayendran kamaraj MANIRAJ MAN  
Blessy AAAJAY KANNAN T C SVSIVA ANAND  
ASHRAF BHAT J MIRUTHUNCH RAM Pranab Sharr  
SANKARESH UMAIR ASHRAF M Aswini Lakshmi MOH  
S MATHESH KARTHICKRAJA P SATHISH MEIKAI

2. Your Roll Number

24 Responses

Latest Responses

- '19uciv017'
- '19uciv023'
- '19uciv009'

1 respondents (4%) answered 19uciv008 for this question.

19UCIV007 19uciv011 19uciv005  
 19UCIV028 19uciv010 19uciv024 19uciv026 1!  
 19UCIV021 19uciv004 19uciv008 19UCIV006 19uciv  
 19uciv015 19UCIV012 19uciv009 19uciv003 19UCIV  
 19UCIV018 19UCIV0:

3. Were objectives of the Value added course me?

- Completely agree 15
- Strongly agree 8
- Agree 1
- Partly Agree 0
- Disagree 0



4. Was the programme sequence well planned?

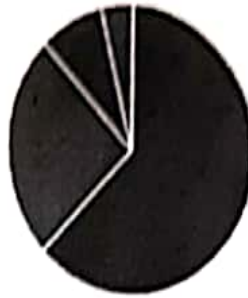
- Completely agree 15
- Strongly agree 6
- Agree 2
- Partly Agree 1
- Disagree 0



11:18 AM

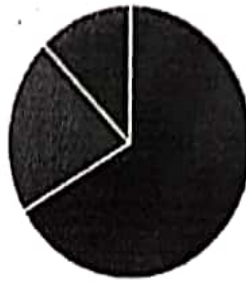
5. Were the lectures clear and easy to understand?

● Completely agree	15
● Strongly agree	6
● Agree	2
● Partly Agree	0
● Disagree	1



6. Whether the instructor encouraged the interaction?

● Completely agree	16
● Strongly agree	5
● Agree	3
● Partly Agree	0
● Disagree	0



7. The information presented at this training was highly beneficial?

● Completely agree	15
● Strongly agree	4
● Agree	5
● Partly Agree	0
● Disagree	0



8. Organization of the training was Good

● Completely agree	16
● Strongly agree	5
● Agree	2
● Partly Agree	0
● Disagree	1





9. How Helpful was the programme?

24

Responses

3.71

Average Number

10. Comments/Suggestions

10

Responses

Latest Responses

"NOTHING ever goes as planned in this cursed world"

"No"

3 respondents (30%) answered good for this question.

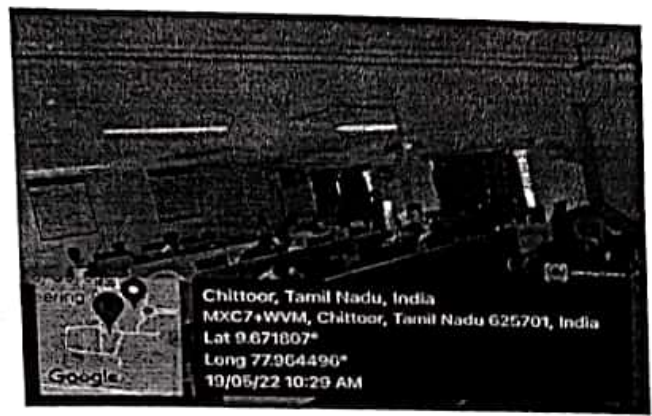
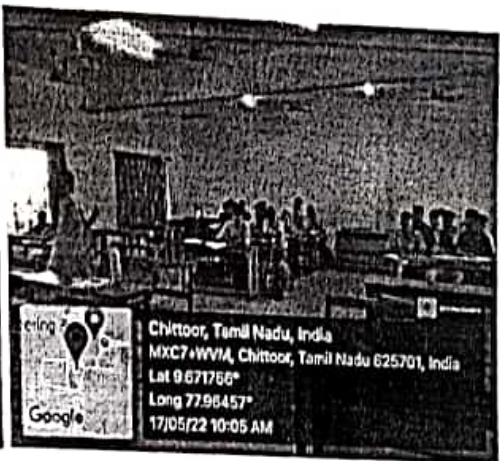
**TRAINING**  
 good session No  
**NICE TEACHING**  
**OUTLINE TO PRIMAVERA**

**cursed world**  
**good**  
**VALUE**

**THANKYOU**  
**teaching**  
 super teaching  
**COURSE** **PROC**

**DEPARTMENT OF CIVIL ENGINEERING**  
**Report on Value Added Course on Primavera**

To improve the employability skills of the students, the Department of Civil Engineering, in association with SKP Engineering Services, Chennai, has conducted a value-added course on Primavera, a project management software for third-year Civil Engineering students, from 16.05.2022 to 19.05.2022. A total of 26 students were participated this training. During the course, the students were prepared various construction planning activities like scheduling, resource allocation, and resource levelling for a sample construction project. The feedback received from the students was shared with the trainer then and there to improve the quality of the content. On 19.05.2022 forenoon, the assessment was conducted to the students. Day to-day feedback was collected. The photographs of the sessions are given below.



*[Signature]*  
**HOD/CIVIL**