Summer Technical Training – A part of Summer Placement Training, 2022

Brief about the Summer Technical Training

The Department of Civil Engineering has conducted "**Summer Technical Training**", which is a part of "**Summer Placement Training – 2022**" organized by Training & Placement Cell of Centurion University of Technology & Management. The **Summer Technical Training** was conducted for final year students (2019 – 23 Batch) from 09th May 2022 to 28th May 2022., Dr. Rajib Kumar Majhi, Career Coordinator, Civil Engineering, in consultation of other faculty members of the department prepared a special curriculum for the Technical Training. The curriculum of the technical training program was designed for 3 weeks with 12.5 hours for training and 3 hours for assessment. So, the time table and session plan for weekly 3 training sessions of 1.5 hours (4.5 hours) and 1 assessment session were prepared.

Objective and outcome of the Summer Technical Training

The objective of the training was to train the students with all the technical knowledge/skill required for the upcoming placements/job opportunities during 2022-23. As an outcome, the students will be refreshed with all the technical necessities before the Campus Drive.

Facilitators/ Trainers

Following faculty members of Civil Engineering Department have provided training to the students.

- 1. Dr. Rajib Kumar Majhi, Assistant Professor in Civil Engineering, CUTM, Paralakhemundi
- 2. Dr. Prafulla Kumar Panda, Associate Professor in Civil Engineering, CUTM, Paralakhemundi
- 3. Prof. Sovan Sankalp, Assistant Professor in Civil Engineering, CUTM, Paralakhemundi

Curriculum, Time table and Session plan

Subjects:

- (1) Building Materials (BM)
- (2) Concrete Technology (CT)
- (3) Building Construction (BC)
- (4) RCC Design (RCC)
- (5) Prestressed Concrete (PSC)
- (6) Steel Structure (SS)
- (7) Highway Engineering (HE)
- (0) = (0 = 1
- (1) Highway Engineening (HE)
- (8) Traffic Engineering (TE)
- (9) Surveying Techniques (ST)
- (9) Assessment (A)

Time Table:

WEEK/ DAY		1:45PM-3:15PM	3:30PM-5:00PM	CLASS ROOM	TRAINER	DATE
1ST	MON	BM		TE LAB	Dr. RK Majhi	09.05.2022
	TUE		CT	TE LAB	Dr. RK Majhi	10.05.2022
	WED		BC	TE LAB	Dr. RK Majhi	11.05.2022
	SAT	A-1			14.05.2022	
	MON	RCC		TE LAB	Dr. RK Majhi	16.05.2022
2ND	TUE		PSC	TE LAB	Dr. RK Majhi	17.05.2022
	WED		SS	TE LAB	Dr. RK Majhi	18.05.2022
	SAT	A-2			21.05.2022	
3RD	MON	HE		TE LAB	Prof. S. Sankalp	23.05.2022
	TUE		TE	TE LAB	Prof. S. Sankalp	24.05.2022
	WED		ST	TE LAB	Dr. PK Panda	25.05.2022
	SAT		A-3			28.05.2022

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Session Plan:

Session	Date	Subject	Торіс		
1	09.05.2022	BUILDING MATERIALS	MANUFACTURING PROCESS, PROPERTIES AND TESTS RELATED TO THE BUILDING MATERIALS LIKE BRICK, CEMENT, AGGREGATES AND REIFORCEMENT		
2	10.05.2022	CONCRETE TECHNOLOGY	T FACTORS AFFECTING PROPERTIES AND DIFFERENT FIELD		
3	11.05.2022	BUILDING CONSTRUCTION	COMPONENTS OF BUILDING, TYPES OF FOUNDATION, BRICK MASONRY, PLASTERING AND SCAFFOLDING		
A1	14.05.2022	TECHNICAL ASSESSMENT-1			
4	16.05.2022	RCC DESIGN	BASICS OF RCC, WSM & LSM METHOD, DESIGNING AND DETAILING OF RCC BEAM, COLUMN AND SLAB AS PER IS 456 (2000)		
5	17.05.2022	PRESTRESSED CONCRETE	BASICS OF PSC, METHODS OF PSC, ANALYSIS OF PSC MEMBERS		
6	18.05.2022	STEEL STRUCTURE	BASIC LOADS ON SS, DESIGN OF TENSION AND COMPRESSION MEMBERS USING IS 800 (2007), BOLT, RIVET AND WELDING CONNECTIONS		
A2	21.05.2022	TECHNICAL ASSESSMENT-2			
4	23.05.2022	TRANSPORTATION ENGINEERING	GEOMETRIC DESIGN OF HIGHWAY, BITUMINOUS MIX DESIGN, PAVEMENT DESIGN, FILELD TESTS ON PAVEMENT MATERIAL, MARSHALL MIX DESIGN		
5	24.05.2022	TRAFFIC ENGINEERING	TRAFFIC SIGNS/SIGNALS, COLLISION DIAGRAM, ROTARY INTERSECTION		
6	25.05.2022	SURVEYING & LEVELLING	BASICS OF CHAIN, COMPASS, THEDOLITE, PLANE TABLE SURVEY, PHOTOGRMETY SURVEY, LEVELLING, REMOTE SENSING AND GIS		
A3	28.05.2022	TECHNICAL ASSESSMENT-3			

Student Participation and Attendance

Attendance Monitoring Report Student wise

Department : Civil EngineeringAcademic Year : 2021-2022Semester : EvenYear : B.Tech Civil Engg. Sem 6Div : AllDate : 28/05/2022

Report Type : Report based on term date

Attendance Status Report from date 09-May-2022 to date 28-May-2022

Sr. No	Roll No	Chudaut Nama	TECHNICAL TRAINING	T-4-10/	
		Student Name	(TW)	Total %	
1	190101110001	BANDI PURANDHAR REDDY	(0/18)	0	
2	190101110002	SWASTIK KUMAR GOUDA	(18/18)	100	
3	190101110003	BISHWAJIT SINGH	(18/18)	100	
4	190101110011	ARVIND KUMAR	(18/18)	100	
5	190101110012	CHITRANJAN KUMAR	(18/18)	100	
6	190101110016	KANHAIYA KUMAR	(0/18)	0	

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Centurion University of Technology & Management Department of Civil Engineering, Paralakhemundi

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7	190101110018	PRADIP KUMAR SHARMA	(40/40)	100
			(18/18)	
8	190101110019	NITESH KUMAR PATEL	(18/18)	100
9	190101110020	ANIL KUMAR	(18/18)	100
10	190101110022	ROHIT MALLICK	(18/18)	100
11	190101110023	KUNDAN KUMAR	(14/18)	78
12	190101110024	ALOK KUMAR	(16/18)	89
13	190101110030	ARUN KUMAR	(18/18)	100
14	190101110032	GAUTAM KUMAR	(18/18)	100
15	190101110033	SABAWOON AKABARI	(10/18)	55
16	190101110034	MDGULAM RAZA	(10/18)	55
17	190101110035	RAHUL KUMAR	(16/18)	89
18	190101110036	MANISH KUMAR CHOURASIA	(18/18)	100
19	190101110037	LOKESH KUMAR	(14/18)	78
20	190101110038	BABLU KUMAR PASWAN	(18/18)	100
21	190101110039	AVIJEET RAJ	(18/18)	100
22	190101110040	SUHAILA GHULAMI	(16/18)	89
23	190101110042	SUDHIR KUMAR	(0/18)	0
24	190101110043	MD PERWEZ ALAM	(18/18)	100
25	190101110044	MDZAID HUSSAIN	(18/18)	100
26	190101110046	DIGAMBAR RAY	(16/18)	89

Photographs of the sessions

SESSION - 1





SESSION - 2





Summer Technical Training – A part of Summer Placement Training, 2022

SESSION - 3





SESSION - 4





SESSION - 5





Summer Technical Training – A part of Summer Placement Training, 2022

SESSION - 6





SESSION - 7





SESSION - 8





Summer Technical Training – A part of Summer Placement Training, 2022

SESSION - 9





Technical Assessments

Question Bank:

Technical Assessment was conducted in every weekend (Saturday) physically as per the time table to evaluate the students' ability and technical skill. The assessment was for 1 hour and consisted of 50 MCQs of 1 mark each. The question bank was combinedly prepared by the Trainers of the Department. The sample copy of the question bank for each assessment has been attached.

Evaluation:

The evaluation was done by the respective subject faculty and the results of the same was announced 2 days after the assessment. There was no negative marking in the evaluation. The scanned sample copy of the evaluation sheet for each assessment has been attached.

Photographs of the Assessment







Summer Technical Training – A part of Summer Placement Training, 2022







ASSESSMENT – 3



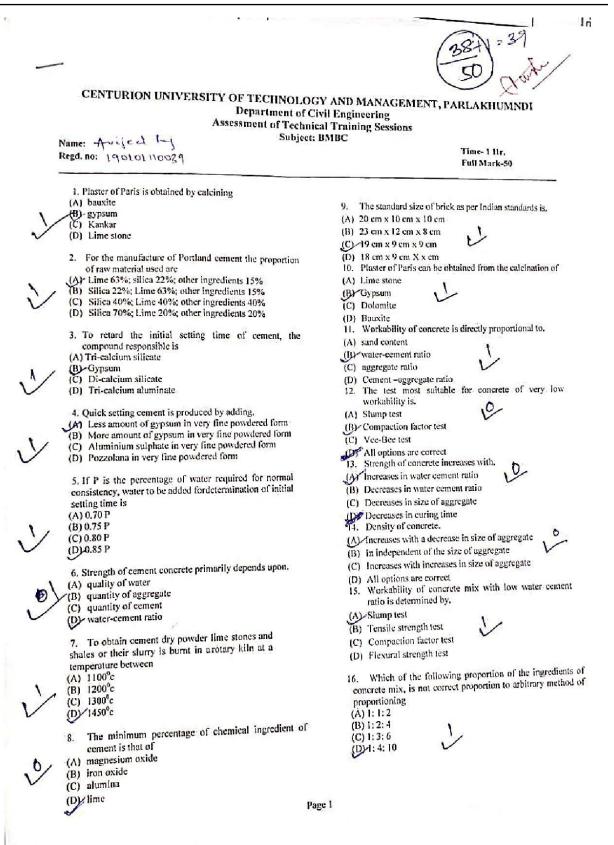


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Department of Civil Engineering, Paralakhemundi

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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT DEPARTMENT OF CIVIL ENGINEERING TECHNICAL ASSESSMENT – 2

TIME - 1 Hr. MARK - 50 DATE: 21.05.2022 Regd. No. 19010110012 NAME: Chitranjon kumar Answer IS code used to design RCC structural members is 15 875 V IS 10262 IS 456 IS 1983 IS code used to calculate the live load on a structure is IS 1983 V 1S 875-part 1 IS 875-part 2 IS 875-part 3 M 20 grade of concrete approximates 1:1.5:3 1:5:10 Which of these is the grade for mild steel Fe 250 Fe 415 Fe 500 None of these The IS code for Wind load is 15 1983 45 875-part 1 V IS 875-part 2 15 875-part 3 The IS code for seismic load is IS 1983 IS 875-part 1 IS 875-part 2 The size of the specimen used to determine flexural strength of concrete is 150 ×150 ×300 mm 100 ×150 ×500 mm 150 ×150 ×700 mm As per Table 2 of IS 456, M50 grade concrete is categorized as Ordinary concrete Standard concrete Exposure condition where concrete surfaces protected against weather or aggressive conditions, except costal area is Mild environment Moderate environment The relation between modulus of rupture f_{cr} and characteristic strength of concrete f_{ct} is given by Sever environment $fcr = 0.35 \sqrt{fck}$ fer = 0.45 vfck According to IS: 456 (2000), the modulus of elasticity of concrete Ec (in N/mm²) can be taken as -Ec = 5700 Vfck $Ec = 5000 \sqrt{tck}$ $Ec = 4500\sqrt{tck}$ None of these Poisson's ratio for concrete is taken

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