

2.3. Teaching Learning Process

2.3.4 Innovation and Creativity in teaching-learning

Details of Enclosures:

I. Multi Media based Student Centric Teaching Aids

- a. ICT Class Room Teaching- Photos
- b. Outcome Based Education Activities Photos
- c. Google Class Rooms
- d. Sample Subject PPTs

II. Other Student Centric Methods

- a. Student Centric Teaching Activities
- b. NPTEL videos: http://mzcet.in/ict.aspx
- c. MIT Open Course ware: <u>http://mzcet.in/ict.aspx</u>

ICT Class Room Teaching



Mr. Vinoth Raj, Assitant Professor handles Engineering Graphics using smart board



Mr. C. Ilamparithi, Assistant Professor handles Engineering Mechanics using smart board

OBE Activities Photos:

II YEAR CIVIL-B SEC-Mr.S.SUJIN JOSE-STRENGTH OF MATERIALS II-PROBLEM SET IN GROUPS

OUTCOMES:

- remembering knowledge the students will be able to identify cantilever beams from propped cantilever beams
- understanding knowledge the students will be able to classify indeterminate beams and theorem of three moments

SUMMARY:

- Any structure which can be solved by means of the three static equilibrium conditions.
- Cantilevers supported on a vertical support at a suitable point. The vertical support is know as prop. The props which does not yield under the loads is known as rigid.
- The beam is fixed at its two supports, the slope of the beam is zero at each end and a couple or moment will be induced at each end to satisfy this condition
- •Beam is stiffer, stronger and more stable. Lesser values for maximum bending moments. Lesser values for maximum deflection. Slope at both the ends is zero.



III YEAR CIVIL-B SEC -Mr.A.STANLEY JOSE-STRUCTURAL ANALYSIS II-TUTORIAL IN STIFFNESS METHOD

OUTCOMES:

- remembering knowledge Students could recall regarding stiffness matrix by displacement method
- understanding knowledge the students will be able to classify beams

SUMMARY:

Students will be able to analyse the given problem using the following steps:

ANALYSING KNOWLEDGE: Knowledge to find the number of supports and support condition in the given continuous beam, Knowledge of equilibrium conditions to know the no of reaction in the given member, Knowledge of determinate and indeterminate structure, Degree of redundancy restricted to two for the unknown forces, Displacement unknown, Determination of fixed end moment, Knowledge of element stiffness matrix, Determination of final moment, detailed study of maximum bending moment diagram.



OBE ACTIVITIES

IV YEAR CIVIL-A SEC -Mr.M.VIJAY PRAKASH-PRINCIPLES OF MANAGEMENT – TEAM BUILDING AND DECISION MAKING

OUTCOMES:

Students could reminiscence words regarding planning, strategic management, decision making, policies concept.

SUMMARY:

UNDERSTANING KNOWLEDGE: The planning process is the first basic managerial function that organizations must address. With an understanding of the environmental context, managers develop a number of different types of goals and plans.

UNDERSTANDING KNOWLEDGE: Plans are developed across a variety of time horizons, including long-range, intermediate, and short-range time frames.

APPLYING KNOWLEDGE: Strategy is a plan made in the light of the plans of a competitor. The plans are made either with an estimate of plans or competitor or plan is a reaction to the strategic move of competitor either announced or executed.

APPLYING KNOWLEDGE: Decision making is the underlying frame work of all planning because every step of the planning process involves a decision.



OBE ACTIVITIES

IV YEAR CIVIL-B SEC -Mr.S.DHINESH KUMAR-WATER RESOURCES –PREFABRICATED STRUCTURES-STAFF (SUMMARIZED TOPICS &FUTURE FACTS)

OUTCOMES:

• the students are able to connect pictures and they could understand better

SUMMARY:

It is a collaborative learning strategy in which students work together to answer a question about an assigned reading. This technique requires students to (1) think individually about a topic or answer to a question; and (2) share ideas with classmates

UNDERSTANDING KNOWLEDGE - At the end of the activity, the students will able to classify various structural components of Large panel elements like walls floors and slabs.



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Harold Koontz



III Year/Mechanical Engineering

7/28/2019









III Year/Mechanical Engineering

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MANAGER VS ENTREPRENEUR

Characteristic	Entrepreneur	Manager
Behaviour Characterized by	Desire for Control	Delegation of Authority
Management Style	One-Man Show	Management Team
Driving Force	Creativity - Innovation	Establish and Preserve the
	Estance an oscilla services in	Status Quo
Organizational Growth	Rapid Reaction	Strategic Planning
Organization Structure	Informal, Flexible	Organized
Decision-Making	Intuitive	Collect Information and
		Seek Advice
Definition of Aims	In terms of "vision"	In Commercial Terms
Attitude to Money	A By-Product	Measure of Success
Attitude to Risk	Calculated Risks	Avoidance of Risks
Organizational Culture	"Entrepreneurial Culture"	"Management Culture"

Entrepreneur	Manager
Involved with start up process	Running the business over a long period of time
Assumes financial, material and psychological risks	Not to bear any risks
Driven by perception of opportunity	Driven by the resources he currently pocess
Initiates change	Follows rules and procedures
His own boss	Hired employee
Gets uncertain rewards	Gets fixed rewards and salary



III Year/Mechanical Engineering

7/28/2019



MULTINATIONAL COMPANIES (8 MARKS QUESTION)

- Characteristics of MNC
- Types of MNC's
 - Ethnocentric Companies(One's group is superior to others)
- Polycentric Companies(Gives rise to problem co-ordination and control)
- Regiocentric Companies(Adopts marketing strategy across a group of countries)
- Geocentric Companies (A company with offices in multiple nations)

MULTINATIONAL COMPANIES (8 MARKS QUESTION)

Strategies of MNC(Sudden impact)

- Exporting Strategy
- Licensing Strategy
- Franchising Strategy(Authoritarian)
- Joint Venture Strategy
- Subsidary Strategy(Supporting

Advantages of MNC's

- 1. Lower Labour Costs
- 2. Potential for High Rate of Return on Investment
- 3. Expanded Markets
- 4. Capital Resources
- 5. Availability of Natural Resources

III Year/Mechanical Engineering

Student Centric Teaching Activities:

Mount Zion College of Engineering & Technology

Teaching Activities

Date: 28.08.2018

Course Code & Name: EC6702/ OPTICAL COMMUNICATION AND NETWORKS

Name of the Faculty : Dr.G.JAGAJOTHI

TLP. NO.	Date / Hours	Торіс	Activity	Remark
1	11/7/2018	PULSE BROADENING IN FRADED INDEX FOBRE	ASSIGNMENT	-
2	16/7/2018	ABSORPTION AND CSCATTERING LOSSES	SEMINAR	-
3	24/7/2018	ATTENUATION, DISPERSION AND GROUP DELAY	PROBLEM SOLVING	-

SIGNATU FACULTY



Unit No. : II

Dr. S. ROBINSON, M.E., Ph.D., Head of the Department, Department of ECE, Mount Zion College of Engg & Tech., Pudukkottai - 622 507.

Year / Sec : IV/B

		Teaching A	Activities	
				Date: 27.08.2018
ourse C	Code &Name: EC	C8351 / ELECTRONIC CIRCUITS I	Year / Sec:	II/A I
TLP. Date / Hours Topic NO.			Pacuity : MENAKA.J Unit No: II Date / Hours Topic Activity Red	
1	9/7/18	AC LOAD LINE ANALYSIS	SEMINAR	TAKEN BY VEENA.D
2	18/7/18	CASCADE AND CACODE AMPLIFIERS	GROUP DISCUSSION	CONDUCTED WITH THREE TEAMS
3	25/7/18	ANALYSIS OF CC AND CE AMPLIFIER	ASSIGNMENT	SUBMITTED
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Teaching Activities

Date: 27.8.2018

Course Code & Name : EC8392 & DIGITAL ELECTRONICS

Name of the Faculty : PREM KUMAR. R

Year / Sec: II/A

Unit No. : 2

S. NO.	DATE	HOURS	TOPIC	ACTIVITY	REMARK
_ 1_	13/7/2018	1,2	MULTIPLEXER, DEMULTIPLEXER DESIGN	TUTORIAL	ACTIVITIES COMPLETED
2	20/7/2018	1,2	ENCODER, PRIORITY ENCODER	GROUP DISCUSSION	ACTIVITIES COMPLETED
3	27/7/2018	1,2	MAGENTUDE COMPARATOR	THINK PAIR SHARE	ACTIVITIES COMPLETED

SIGNATURE OF THE FACULTY





		Teaching	Activities	
				Date: 27.08.18
ubject (Code & Name : EC6	503 Transmission Lines and Waveguides	Year / Sec : III / A	
ame of	the Faculty : T. Bet	sy Saral	Unit No. : 2	
TLP. NO.	Date / Hours	Торіс	Activity	Remark
1	27.07.18/8	Lecher measurements	Poster presentation	GIARUN BALAJI [Presentation of the method of Lecher system]
2	27.07.18/8	Reflectometer	Classroom demonstration	J.KAVINROGER [Video presentation on working of reflectometer]
3	20.07.18/7	Real life examples of standing waves	Assignment	students submitted assignment
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