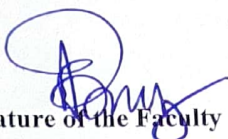


LESSON PLAN

| Name of the Institute : | | C. V. RAMAN POLYTECHNIC, BHUBANESWAR |
|---------------------------------|--|--------------------------------------|
| Department : | | CIVIL ENGINEERING |
| Semester/Division/Branch : | | 6th Semester / CIVIL |
| Subject Name with code : | | CONSTRUCTION MANAGEMENT (TH.2) |
| Total No. of Class (Required) : | | 60 |
| Faculty Name : | | AMBIKA PRASAD MOHANTY |
| Class No. | Brief Description of the Topic/Chapter to be taught | Remarks |
| 1 | Introduction To Construction Management:Aims and objectives of construction management.Functions of construction management | |
| 2 | The construction team componentsowner,engineer,architect,contractor their functions and interrelationship and jurisdiction. | |
| 3 | Resources for construction management men ,machines,materials,money. | |
| 4 | Constructional Planning:Importance of Construction Planning,Developing work breakdown structure for construction work. | |
| 5 | Construction Planning stages Pretender stage, Posttenderstage.Construction scheduling by Bar charts preparation of Bar Charts for simple construction works. | |
| 6 | Preparation of schedules for labourmaterials,machinery, finance for small works Limitation of Bar charts | |
| 7 | Construction scheduling by network techniques defination of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works. | |
| 8 | Materials and Stores Management :Classification of Stores-storage of stock. | |
| 9 |DO..... | |
| 10 | Issue of materials indent , invoice, bin card | |
| 11 |DO..... | |
| 12 | Construction Site Management:Job Layout Objectives, Review plans, specifications, Lay out of equipments. | |
| 13 |DO..... | |
| 16 |DO..... | |
| 14 | Factors influencing selection, design and layout of temporary facilities and services at construction site. | |
| 15 | Location of equipment,organizinglabour at site. | |
| 16 |DO..... | |
| 17 |DO..... | |
| 18 | Job layout that's objective,review plans and specification | |
| 19 | job layout for different construction site | |

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| 20 |DO..... | |
| 21 | principle of storing material at site | |
| 22 | Principles of organization meaning and significance of terms control, authority, responsibility, job & task. | |
| 23 | Leadership necessity, styles of leadership, role of leader. | |
| 24 | Human relations:relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare. | |
| 25 |DO..... | |
| 26 | Conflicts in organization genesis of conflicts, types intrapersonal, interpersonal, intergroup, resolving conflicts. | |
| 27 | Construction Labour and Labour Management Preparing Labour schedule | |
| 28 | Essential steps for optimum labour output &Labour characteristics | |
| 29 | Wages & their payment &Labour incentives. | |
| 30 | Motivation Classification of motives, different approaches to motivation. | |
| 31 | Equipment Management: Preparing the equipment schedule & Identification of different alternative equipment . | |
| 32 | Importance of Owning & operating costs in making decisions for hiring & purchase of equipment. | |
| 33 | Inspection and testing of equipment & Equipment maintenance and minor repairs | |
| 34 | Quality Control:Concept of quality in construction | |
| 35 |DO..... | |
| 36 |DO..... | |
| 37 |DO..... | |
| 38 |DO..... | |
| 39 |DO..... | |
| 40 | Quality Standards during construction, after construction, destructive &non destructive methods. | |
| 41 |DO..... | |
| 42 |DO..... | |
| 43 |DO..... | |
| 44 |DO..... | |
| 45 | Monitoring Progress:Programme and progress of work | |
| 46 | Work study | |
| 47 |DO..... | |
| 48 | Analysis and control of physical and financial progress corrective measures. | |
| 49 | Safety Management In Construction: Importance of safety. | |
| 50 | causes and effects of accidents in construction works | |
| 51 | Safety measures in worksites for excavation, scaffolding, formwork, fabrication and errection, demolition. | |
| 52 | Development of safety consciousness | |
| 53 | Safety legislation Workman's compensation act, contract labour act. | |
| 54 | Role of vulnerability atlas of india in const.of project :introduction,cocept of natural hazards .. | |

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| 55 | Earthquake hazard and vulnerability, magnitude and intensity scales of earthquake seismic zones. | |
| 56 | wind/cyclone hazard & pressures & wind speed and pressures. | |
| 57 | flood hazard & vulnerability | |
| 58 | landslides, tsunamis & thunderstorms hazard & vulnerability. | |
| 59 |DO..... | |
| 60 | Housing vulnerability risk tables and usage of vulnerability atlas of india. | |


 Signature of the Faculty


 Signature of the H.O.D