

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous NAAC Accredited Institute affiliated to RGPV, Bhopal)

Civil Engineering Department

Date: 18/07/2022

Subject- Report on the in-house faculty training module on “Project Management and Financing”

As per Order No: 1203 dated 08/07/2022, an inhouse faculty training module on “Project Management and Financing” for nominated faculty members (Table 1) of different departments was scheduled on 11/07/2022 – 15/07/2022 from 11:00 AM to 04:00 PM (detailed schedule is presented in Table 2). In this training module, Dr. Sanjay Tiwari, Dr R. Kansal, and Prof. Archana Tiwari have conducted the training sessions in Lecture cum discussion mode with an objective to fulfill the COs stated in Table 3. At the end of session, all faculty members expressed their satisfaction towards the aforesaid module.

Table 1: List of Participants

S. No.	Name of Faculty	Department
1	Dr. Jayvant Chaudhary Dr. Hemant Shrivatava	Civil Engineering
2	Prof. Vedansh Chaturvedi Prof. Utkarsh Shrivastava	Mechanical Engineering/ Automobile Engg.
3	Prof Praveen Bansal Prof Ankit Tiwari Dr Vijay Bhuria	Electrical Engg.
4	Dr. Deepak Batham Dr. Hemant Choubey	Electronics Engg.
5	Dr. Ranjeet K Singh Prof. Jaimala Jha	Computer Science & Engg
6	Dr. Nidhi Saxena Dr. Pawan Dubey	Information Technology
7	Dr. Divya Chaturvedi Dr. J. K. Mutehele	Mathematics & Computing
8	Prof. Swati Gupta Dr. R.K.Dubey	Chemical
9	Ar. Ankit Kumar Ar. Pranshi Jain	Architecture

Table 2: Full schedule of the Training Module

Day	Time	Course Contents	Faculty Name Resource person	Content specific mode of Delivery
Day 1 (11/07/2022)	11:00 AM to 12:00 noon	SESSION 1 : Project Planning: Project Planning: Introduction to Project Management, Difference between Project and Production.	Dr. Sanjay Tiwari	Lecture cum discussion mode
	02:00 PM to 04:00 PM	SESSION 2 : Attributes of a Project: Time, Cost, Quality and Safety. Stakeholders of a Project. Project life cycle. Project Planning: Types of Project Plans and feasibility.	Dr. Sanjay Tiwari	Lecture cum discussion mode
Day 2 (12/07/2022)	11:00 AM to 12:00 noon	SESSION 1 : Project Network logic: Project Networking and work flows, Activity duration and methods of estimating activity duration – One time estimate three time estimates, Duration estimation procedure. Use of Bar Charts, Mile stone charts and networks.	Dr. Sanjay Tiwari	Lecture cum discussion mode
	02:00 PM to 04:00 PM	SESSION 2: Network representation schemes: Activity on Arrow and Activity on Node Networks (A-o-A & A-o-N), Logic behind developing project network and simple network calculations, Critical paths and floats.	Dr. Sanjay Tiwari	Lecture cum discussion mode
Day 3 (13/07/2022)	11:00 AM to 12:00 noon	SESSION 1 : Decision making through networks: CPM, PERT & PDM: Use of network in Decision Making: Importance of critical path, Monitoring the progress and updating the project plan. Use of floats in Resource smoothening.	Dr. Sanjay Tiwari	Lecture cum Hands on Computations using simple hand calculation
	02:00 PM to 04:00 PM	SESSION : 2 Introduction to Precedence Diagramming Method (PDM), Different lag and lead relations in terms of SS(Start to Start), SF (Start to Finish), Finish to Start(FS), and Finish to Finish(FF) and composite relations.	Dr. Sanjay Tiwari	Lecture cum Hands on Computations using simple hand calculation

Day 4 (14/07/2022)	11:00 AM to 12:00 noon	SESSION 1 : Project Cost Control: Project Cost Control: Breakeven analysis in planning stage, Direct and indirect cost, slope of direct cost curve, Total project cost and optimum duration.	Prof. Archana Tiwari	Lecture cum discussion mode
	02:00 PM to 04:00 PM	SESSION 2 : Contracting the network for cost optimization. Escalation & Variation in prices.	Prof. Archana Tiwari & Dr. Sanjay Tiwari	Lecture cum Hands on Computations using simple hand calculation
Day 5 (15/07/2022)	11:00 AM to 12:00 noon	SESSION 1 : Projects Financing: Projects Financing: Introduction to project financing; Role of governments in financing projects, Funder and Concessionaire: Economic multiplier effects of Projects; Means of financing-public finance and private finance, Granting authority: World Bank Group, IMF, ADB, Micro and Small Enterprises Funding Scheme (MSME).	Prof. R. Kansal	Lecture cum discussion mode
	02:00 PM to 04:00 PM	SESSION 2 : Elementary understanding of Procurement of infrastructure projects through Public Private Partnership (PPP) route, Build Operate Transfer (BOT), Build Operate Own & Transfer (BOOT); Stakeholders' perspectives, Lifecycle of PPP projects, Micro & Macro economics concepts and its application in Project Financing.	Prof. R. Kansal	Lecture cum discussion mode

Table 3: CO's of the Training Module

Course Outcomes

Upon completion of the course, the students will be able to:

CO 1: Know the attributes of project and its different phases.

CO 2: Develop the project network based on WBS and estimation of activity durations

CO 3: Analyze the project network and make decide the various alternates.

CO 4: Evaluate the optimum cost of project for assigned deadlines.

CO 5: Understand the different options to arrange the finances to complete it within stipulated time

Dr. Sanjay Tiwari

HCED

Civil Engineering Department

Faculty Training on Project Management & Financing

Subject Code – 1000005

Course Objectives:

- To know about project, its attributes and essentials of project planning.
- To develop the project network.
- To take rational decisions using project networks for successful completion of the projects.
- To decide about rational utilization of resources in project.
- To have an elementary idea of finances involved in a project and managing it.

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