

Branch Name:	Management
Program Code:	MS203
Course Title:	Hospital Planning, Project & Facility Management
Course Code:	1MS2030104
Pre-requisite Course:	Basic knowledge of healthcare management, hospital administration, and fundamental concepts of project management and facility operations.

Course Objectives:

1. To understand hospital planning principles including site selection, capacity planning, and regulatory requirements.
2. To Develop project management skills for planning, execution, and monitoring of hospital projects.
3. TO Gain knowledge of facility management systems including maintenance, safety, and biomedical equipment.
4. To Enhance operational efficiency in managing hospital support services and infrastructure.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	1	-	4	50	50	-	-	100

Course Contents:

Unit No	Topic	Total Hours	Weightage (%)
1	Introduction to Hospital Planning Concept, objectives, and importance of hospital planning, Levels of healthcare and types of hospitals, Planning considerations: demographic, epidemiological, socio-economic factors, Demand forecasting and bed requirement planning Site selection and location analysis, Functional planning (OPD, IPD, ICU, OT, Emergency), Hospital design principles: safety, infection control, sustainability Regulatory and accreditation basics	15	25%
2	Hospital Project Management Phases of hospital projects (Initiation to Closure), Feasibility analysis (technical, financial, operational), Project planning tools: Gantt Chart, PERT, CPM, Budgeting and cost estimation, Procurement and contract management, Risk management, Stakeholder roles, Commissioning and pre-operational activities	15	25%
3	Hospital Facility Management Concept and scope of facility management, Infrastructure and utility management, Maintenance systems (preventive, corrective, predictive), Biomedical equipment management, Safety and disaster management,	15	25%

	Biomedical waste management, Green hospital practices, Accreditation role (NABH/JCI)		
4	Support Services & Facility Operations Housekeeping and sanitation, Laundry and linen services, Dietary and food services, Security and transport management, Utilities: water, electricity, HVAC, Infection control practices, Outsourcing vs in-house services, Performance indicators and quality evaluation	15	25%
	Total Hours	60	100%

Text Books:

- Manual of Hospital Planning and Designing – Ajay Garg & Anil Dewan, Publisher: Springer Nature Singapore
- Hospitals: Facilities Planning and Management – G. D. Kunders, Publisher: McGraw Hill Education
- Handbook on Hospital Planning & Designing – Ajay Garg, Publisher: Springer
- Monitoring Tools for Setting up the Hospital Project (Initial Planning, Building & Equipment) – Ajay Garg, Publisher: Springer

Reference Books:

- Principles of Hospital Administration and Planning, **Author:** B. M. Sakharkar, **Publisher:** Jaypee Brothers Medical Publishers

List of Open-Source Software/learning website:

- NPTEL (SWAYAM) – Free Indian courses on accounting and financial management. <https://nptel.ac.in>
- Coursera – Courses on financial accounting, cost accounting, and financial management. <https://www.coursera.org>

Course Learning Outcomes (CLO):

1. Explain key concepts and principles of hospital planning and design.
2. Apply project management tools for effective hospital project execution.
3. Analyze and manage hospital facility systems and infrastructure.
4. Evaluate hospital support services for improved operational efficiency.

Mapping of CLO with PO and PSO

Course Learning Outcomes	Program Outcomes (POs)							Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CLO1			H	H	L		L	L	
CLO2	H	M		L		H		H	M
CLO3			M		M				L
CLO4	M	L				M	H	H	H

H: High, M: Medium, L: Low