

GANPAT UNIVERSITY									
FACULTY OF MANAGEMENT STUDIES									
Programme	MBA			Branch/Spec.	Healthcare and Hospital Management				
Semester	I			Version	1.0.0.0				
Effective from Academic Year	2026-27			Effective for the batch Admitted in	July 2026				
Subject code	ICC503ATH			Subject Name	ANALYTICS AND TECHNOLOGY FOR HEALTH CARE AND HOSPITAL INDUSTRY				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	3	0	0	0	3	Theory	50	50	100
Hours	3	0	0	0	3	Practical			
Course Outcomes:									
CO-1: To get a basic understanding of Hospital Information System									
CO-2: Develop a detailed understanding of hospital information system and information technology									
CO-3: Will help in acquainting about the administrative and clinical information system.									
CO-4: To understand legal aspects of medical records.									
Theory syllabus									
Unit	Content								Hrs
1	Introduction to Analytics, Data Driven Decision Making, Descriptive Analytics, Prescriptive Analytics, Predictive Analytics, Big Data Analytics, Web and Social Media Analytics. Data generated for HIS; Functions, Benefits and applications of HIS, HIS components, various performance Indicators, HIS model and data movement. - HIS modules: Various HIS Modules for Clinicians Access, Nursing Access, In-patient Module, Registration Module, Diagnostic services Module, Dietetics Module, OT Module and Accident & Emergency Module etc.								10
2	Computerization in Hospitals, advantages of computerized system, database interface, IT Components of HIS and various softwares available in the healthcare market, ERP SAP in hospitals: Use, Functioning and Process Hospital information system: Approaches to hospital information system: Patient based, Functional organization based, User department based, Clinical information system: Medical Record, Nursing Info system, Appointment scheduling, Dissemination of diagnostic information, Registration, General Administration & productivity. Information Technology: Telemedicine, knowledge management, information Technology integration. LAN, WAN, SPSS, LIS, RIS, PACS.								10
3	Management decision and related information requirement – Concept of networking hospital information system – Clinical information system – Administrative information system – Support service technical information system. Role of medical records in health care delivery – general medical records standards and policies. Concept of Telemedicine and its evolution, Telemedicine network in India, and Strengths & Opportunities for Telemedicine in India.								10
4	Role of Medical Records in Health Care Delivery – General Medical Records Standards and Policies – Legal Aspects of Medical Records –Medical Audit Computerization of Medical Records – Information Needs in the Hospital – sources of Health Information – Uses of Health and Hospital Data								15
Reference Books									
1	Davis,G.B. and M.H.Oslon,Managent Information Systems								
2	Health Management Information System, Jack Smith, Open University Publication, U.K								
3	Management Information System, James A. O'Brien, Tata Mc-graw Hill								