#### MBA Hospital Administration Course Structure

#### I Year I-Semester

Course code	Course Title	Course TitlePeriods PerWeek				Credits
couc		Lec.	Lab	Sess.	Exams	
23HA101	Management Concepts and Organizational Behavior	4	-	40	60	4
23HA102	Health Economics	4	-	40	60	4
23HA103	Accounting For Decision Making	4	-	40	60	4
23HA104	Human Resources Management	4	-	40	60	4
23HA105	Marketing for Healthcare Services	4	-	40	60	4
23HA106	Elective-1	4		40	60	4
23HA107	Elective-2	4		40	60	4
23HA108	Hospital Visit	-	-	100	0	2
23HA109	Introduction to IT LAB	-	4	50	50	2
23HA110	Corporate skills	3	-	50	50	-
	Total	31	4	480	520	32

#### I Year II-Semester

S.No.	Course Title	Periods Per Week		Max.Ma	Credits	
			Lab	Sess.	Exams	
23HA201	Research Methodology for Hospital Management	4	-	40	60	4
23HA202	Hospital Architecture Planning and Maintenance	4	-	40	60	4
23HA203	Healthcare Laws, Ethics, Counselling Skills	4	-	40	60	4

23HA204	Hospitals Operations Management	4	-	40	60	4
23HA205	Supply Chain Management in Hospitals	4	-	40	60	4
23HA206	Elective-3	4	-	40	60	4
23HA207	Elective-4	4	-	40	60	4
23HA208	Internship (Report and viva) **			50	50	2
23HA209	Hospital Software Tools LAB	-	4	50	50	2
23HA210	Aptitude & Logical reasoning	3	-	50	50	-
	Total	31	4	430	570	32

#### **II Year I-Semester**

S.No.	Course Title	Course TitlePeriods Per		Max.M	Credits	
		Lec.	Lab	Sess.	Exams	
23HA301	Total Quality Management & Hospital Accreditation	4	-	40	60	4
23HA302	Management Information Systems in Hospitals	4	-	40	60	4
23HA303	Operations Research	4	-	40	60	4
23HA304	Elective-5	4	-	40	60	4
23HA305	Elective-6	4		40	60	4
23HA306	MOOCS			1	00	3
	Total	20	6	250	350	23

#### II Year II-Semester

S.No.	Course Title	Course TitlePeriods PerWeek		Max.M	Credits	
		Lec.	Lab	Sess.	Exams	_
23HA401	Hospital Innovations, technology & Artificial Intelligence	4		40	60	4
23HA402	Entrepreneurship & Consultancy in Health Care	4		40	60	4
23HA403	Elective-7	4		40	60	4
23HA404	Project	-		Recommended with grade O,A,B,C,D /Not recommended		5
	Total	12		120	180	17

MOOCS	Introduction to Tele-	National Health	
MOOCS	Medicine	Programmes	

#### **Professional Electives**

Elective-1 (23HA106)
a) Health Insurance and Medical Tourism
b) Financial Management
Elective-2 (23HA107)
a) Community Healthcare Management
b) Management of Hospital Services
Elective-3 (23HA206)
a) Patient Care Management
b) Health Care Information Technology & Systems
Elective-4 (23HA207)
a) Hospitals & Pharmaceutical Management
b) Pharmaceutical Marketing

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Elective-5 (23HA304)

a) Introduction to Epidemiology and Biostatistics

b) Epidemic & Disaster Management

Elective-6 (23HA305)

a) Enterprise Recourse Planning for Hospitals

b) Intellectual Property Rights

**Elective-7** (23HA403)

a) Hospital Waste Management

b) Hospital Hazards & Health Care Risk Management

Total Quality Management & Hospital Accreditation							
Course Code		Periods		Sessional	End Exam	Total	Credits
	L	Т	Р	Marks	Marks	Marks	
23HA301	4	0		40	60	100	4

#### **Course Objectives:**

- > To Introduce with TQM Concepts
- > To understand the importance of Quality in hospital management

#### **SYLLABUS**

UNIT – IPeriods: 8L+0T=8Evolution of Quality Management: Introduction, concept, definition, origin & growth of Quality<br/>Management; Importance and Significance of TQM for Hospitals; Prerequisites of Quality Management in<br/>Hospitals; Role of Medical Record in Quality Management; Quality Circles; Quality Assurance.

#### UNIT – II

**Quality Management in Hospital**: Front Office; OPD; Casualty; Labs; OT; CSSD; IP; Nursing services; Emergency and Trauma care; Dietary; House Keeping; ICU; CCU; MRD; Laundry; Canteen; Hospital stores.

#### UNIT – III

**Team work and Tools in TQM**: TQM team work; Employee involvement; Key result areas; Leadership; TQM Tools; Quality Function Deployment (QFD); Concurrent engineering; FMEA; P-C-D-A Cycle; JIT (Just in Time); Kaizan; 'O' defect programme; Statistical Tools in TQM; Flow diagram; Pareto Analysis; Cause and effect diagram; Control Charts; Bench Marking; Business Process Reengineering; Six Sigma; Assessing Quality; Patient satisfaction survey; TQM practices in Indian Hospitals.

### UNIT – IV Periods: 8L+0T=8 Organization and Roles in Quality: Quality Policy; Commitment to Patients and Staff; Code of Conduct for Health Professionals; Job Description of Quality Manager; Quality Steering Committee; Obstacles to the practice of Quality in Hospitals.

UNIT - VPeriods: 8L+0T=8Hospital Accreditation: Concept of Hospital Accreditation; ISO 2000 & 14000; NABL, NABH, JCI &<br/>JCAHO; Accreditations Scenario in India and abroad; Organizations and authorities for accreditations in India;<br/>Accreditation process; Role of the government in developing an accreditation system.

**Periods: 8L+0T=8** 

**Periods: 8L+0T=8** 

#### Text & References:

- Principles of Hospital Administration and Planning, by B.M.Sakharkar published by : Jaypee Brothers, Medical Publishers (P) Ltd., New Delhi, 2010
- Sridhar Bhat, TOTAL QUALITY MANAGEMENT, Himalaya House pub., Mumbai, 2002
- Sundara Raju S.M., TOTAL QUALITY MANAGEMENT: A PRIMER, Tata McGraw Hill

- D.D. Sharma, Text book of Quality Management
- Sakharkar, B. M., & Jaypee Brothers (Jaypeedigital). (2009). Principles of Hospital Administration & Planning. (Jaypee eBooks.) Jaypee Brothers Medical Publisher (P) Ltd.

Management Information Systems in Hospitals							
Course Code	Peri	ods		Sessional	End Exam	Total	Credits
Course Coue	L	Т	P	Marks	Marks	Marks	Creatis
23HA302	4	0		40	60	100	4

**Course Objectives:** The objective of this course is to make the students to understand MIS as a managerial decision making tool and to know the sources and compiling of MIS.

SY	LLABUS
UNIT – I	Periods: 8L+0T=8
Resource Management – Data and Information Mana	IIS in Strategic Advantage – Systems Approach in
UNIT – II	Periods: 8L+0T=8
	s – Data Mining for Decision Support – Sensitivity s – Optimization Analysis-Design and Implementation
UNIT – III	Periods: 8L+0T=8
of Informatics: Globalization of Information. Tech management – Genomics – Advances in public he Security – Telehealth – Informatics Education – Barr	s of telehealth – Future trends – Summary-The future hnology – Electronic communication – Knowledge ealth – Speech recognition – Wireless computing – iers to Information Technology implementation.
UNIT – IV	Periods: 8L+0T=8
<b>Software Applications in Health Care:</b> Awareness Various functions of Hospital. Internet and Intranet a	on the application of computer software packages in nd their application in healthcare.
UNIT – V	Periods: 8L+0T=8
Criteria – Guide for Purchasing Software – Some	– Scope of HIS – Benefits of HIS – HIS Selection Commonly Used Software: Tele health, HER/EMR: Information System, health Information System –
Text & References:	
<ul> <li>structure and development, McGraw Hill Pub</li> <li>Erid Muford. Effective Systems design and re</li> </ul>	

• Rajesh Narang, Data Base Management System, Prentice-Hall India Private Limited, New Delhi, 2004.

- Sadagopan.S, Management Information System, Prentice-Hall India Private Limited, New Delhi, 2004.
- Kenneth.C. Laudon & Jane P.Laudon, Management Information System Prentice-Hall India Private Limited, New Delhi, 2006.
- Jerome Kanter, Managing with Information, Prentice-Hall India Private Limited, New Delhi, 2004. 4th Edition.
- P. Weill & M. Broadbent "Leveraging the New Infrastructure: How Market Leaders Capitalize on IT", Harvard Business School Press, May 1998

Operations Research							
Course Code		Period	ls	Sessional	End Exam	Total Marks	Credits
	L	Т	Р	Marks	Marks		
23HA303	4	0		40	60	100	4

**Course Objectives:** To make the students familiar with principles and techniques of Operations Research and their applications in decision-making.

<u>SY</u>	<u>'LLABUS</u>
UNIT – I	Periods: 8L+0T=8
	Operations Research – Linear Programming – Graphic
Method – Simplex Method – Big-M Method and Its	Applications.
UNIT – II	Periods: 8L+0T=8
<b>Linear Programming:</b> Transportation Problem- No Problem – Hungarian method of solution.	orth West Corner Method - Least Cost Method. Assignment
UNIT – III	Periods: 8L+0T=8
Replacement And Sequencing Models:	
Replacement policies - Replacement of items that de	teriorate with time (value of money not changing with
time) - Replacement of items that deteriorate with ti	me (Value of money changing with time) – Replacement of
items that fail suddenly (individual and group replac	ement policies).
Sequencing models- n job on 2 machines – n jobs on problem.	a 3 machines – n jobs on m machines, Traveling salesman
TINTER IN 7	
UNIT – IV	Periods: 8L+0T=8
• • •	ro-sum games, the max-min and min-max principle.
Games without saddle points, mixed strategies. dom	inance, graphical method.
Queuing Theory – M/M/I and M/M/C Models. <b>Case study</b> : Apply queuing theory in hospital	
Cuse study. Apply quoting moory in nospital	
UNIT – V	Periods: 8L+0T=8
Project Management: Basic terminologies - Const	ructing a project network – Scheduling computations –
PERT – CPM.	
Inventory management: Introduction-types of inv	
	ventories-costs associated with inventories-concept of

#### **Text & References:**

- Mustafi, C.K. 1988. Operations Research Methods and Practices, Wiley Eastern Limited, New Delhi.
- Hamdy A Taha, 1999. Introduction to Operations Research, PHI Limited, New Delhi.

#### **Reference Books**:

- Peterson R and Silver, E. A. 1979. Decision Systems for Inventory Management and Production Planning.
- Levin, R and Kirkpatrick, C.A. 1978. Quantitative Approached to Management, Tata McGraw Hill, Kogakusha Ltd., International Student Edition.

#### WEB RESOURCES:

https://orc.mit.edu/ www.orsi.in/ https://www.journals.elsevier.com/european-journal-of-operational-research/

Introduction to Epidemiology and Biostatistics										
Course Code	Periods			Sessional	End Exam	Total	Credits			
	L	Т	Р	Marks	Marks	Marks	cicuits			
23HA304 (A)	4	0		40	60	100	4			

**Course Objectives:** The objective of the course is to attain enhanced knowledge in epidemiology and related bio statistical methods.

SY	LLABUS
UNIT – I	Periods: 8L+0T=8
	s and Approach of Epidemiology-Rates and Ratios- of Generalization of Epidemiological measurements-
UNIT – II	Periods: 8L+0T=8
terms of Host-Environment and Agent with focus of management of outbreak of diseases-their indicato	<b>nicable:</b> Basic concepts of Communicable Diseases in on control and prevention including investigation and ors and evaluation-Epidemiology of locally prevalent tis(JE) -Chronic diseases Tuberculosis-Leprosy, HIV- methods of measurement and evaluation)
UNIT – III	Periods: 8L+0T=8
<b>Introduction to Bio Statistics:</b> Concepts of a Stati Collection: Primary and Secondary Data- Different t	istical Population and sample from a population-Data ypes of scales - nominal, ordinal, ratio and interval.
UNIT – IV	Periods: 8L+0T=8
	hesis Types of Error in Testing of Hypothesis - HypothesisLarge and Small Sample Tests-t, Z and h.
UNIT – V	Periods: 8L+0T=8
<b>Data Analysis &amp; Interpretation:</b> Univariate Data An ANOVA: One Way, Two Way.	alysis, Bivariate Data Analysis: Regression Analysis -
Text & References:	
Distributors.	s, Narosa Publishing House.
<ul> <li>Reference Books:</li> <li>K. Park (2013):Parks's Textbook of Prevent</li> </ul>	ive and Social Medicine, BanarasidasBhanot
<ul> <li>Publishers, Jabalpur.</li> <li>Deshpande, J. V. (1981): Text Book of Math</li> <li>Goldberg, R. R. (1970): Methods of Real Ar</li> </ul>	

• Khuri, A. I. (1983): Advanced Calculus with Applications in Statistics.

Epidemic & Disaster Management										
Course Code	Periods			Sessional	End Exam	Total	Credits			
	L	Т	Р	Marks	Marks	Marks	Cicuits			
23HA304 (B)	4	0		40	60	100	4			

#### **Course Objectives:**

- > To provide basic conceptual understanding of disasters and its relationships with development.
- > To identify factors responsible for emergence and re-emergence of these infectious diseases and challenges faced in control/ prevention of these infections.

SY	LLABUS
UNIT – I	Periods: 8L+0T=8
<b>Epidemic:</b> Definition, classification of epidemics:	Common source: Point-source Outbreak, continuous,
	of Outbreaks, Epidemics & Pandemics, difference
Between Epidemic and Pandemic. The Epidemic Dis	seases Act, 1897.
UNIT – II	Periods: 8L+0T=8
Infection Control: Infection Control Practices – Ha	nd washing, Decontamination Use of PPEs. Emerging
	nd control of new infections, Vaccination strategies
	Dutbreak Management including Quarantine, Isolation,
Contact Tracing, Surveillance.	
UNIT – III	Periods: 8L+0T=8
Disaster Management: Objective, basic concepts	, disaster cycle; Classification of disasters; Disaster
	ter management in India – National level, state Level;
Principles of disaster Planning; Disaster and health	problems; Organization of Medical Relief; Principles
of Mass Casualty Management; Disaster Administration	tion; Disaster Manual; Disaster Drill.
UNIT – IV	Periods: 8L+0T=8
	res; Medical preparedness: Models. Phases and Use of
Hospital Components - Practical Arrangements.	se, planning and implementation. Pre-Hospital and
riospital Components - Fractical Arrangements.	
UNIT – V	Periods: 8L+0T=8
Disaster Risk Reduction Strategies: Disaster Cy	cle, Phases of Disaster, Preparedness Plans, Action
Plans and Procedures, Early warning Systems Mod	els in disaster preparedness, Components of Disaster
	nd Waste Management), Community based DRR,
	affecting Vulnerabilities, , Mainstreaming disaster risk
	d vulnerability assessments, Policies for Disaster
Preparedness Programs.	
Text & References:	
• Zumla A, Hui DS, (eds). Emerging and Re-	Emerging Infectious Diseases, An Issue of Infectious
Disease Clinics of North America E-Book. E	lsevier Health Sciences; 2019 Nov 2
• Ray, Suresh, (2010), Nurses role in disaster i	management CBS publishers

- Mehta A, Culley C, (2016). Emergency medicine. Jaypee Brothers Medical publishers.
- Goldschmitt D, Bonvino R, (2009). Medical disaster response, CRC press.

- Lessler J, Orenstein WA. The Many Faces of Emerging and Re-emerging Infectious Disease. Epidemiologic reviews. 2019 Nov 4.
- Dhawan N, Khan AS, (2012). Disaster management & Preparedness CBS Publications
- Sonopant. G. (2012). Disaster Management for Healthcare professionol.Jp Medical.

#### WEB RESOURCES:

https://www.who.int/immunization/newsroom/vaccine\_PI/en/

Enterprise Recourse Planning for Hospitals										
Course Code	Periods			Sessional	End Exam	Total	Credits			
	L	Т	Р	Marks	Marks	Marks				
23HA305 (A)	4	0		40	60	100	4			

**Course Objectives:** The course has been designed to dwell on the basic concepts of ERP systems and their application to manage all the processes and data records of the hospital.

SI	ZLLABUS
UNIT - I	Periods: 8L+0T=8
<b>Introduction</b> - Overview of enterprise systems – Ev	olution - Risks and benefits - Fundamental technology
- Issues to be consider in planning design and impler	nentation of cross functional integrated ERP systems
UNIT - II	Periods: 8L+0T=8
ERP Solutions and Functional Modules - Overvie	w of ERP software solutions Small medium and large
enterprise vendor solutions, BPR, Business Engine	ering and best Business practices - Business process
Management. Overview of ERP Business Modules -	- Finance – Manufacturing – Human Resources – Plant
<b>.</b>	nanagement – Marketing – Sales, Distribution and
service.	
UNIT - III	Periods: 8L+0T=8
<b>FDD Implementation</b> Diapping Evaluation and s	election of ERP systems Implementation life cycle -
	k- Training – Data Migration. People Organization in
implementation- Consultants, Vendors and Employe	
UNIT - IV	Periods: 8L+0T=8
Post Implementation - Maintenance of ERP- Orga	nizational and Industrial impact; Success and Failure
factors of and ERP Implementation.	inzational and industrial impact, success and randic
UNIT - V	Periods: 8L+0T=8
	ystems and ERP add-ons - CRM, SCM, Business
analytics etc - Future trends in ERP systems-web e	enabled, Wireless technologies so on.
Text & References:	
1	t Book of Enterprise Resource Planning, 1st Edition,
Macmillan India Ltd.	
-	g, second edition, Tata McGraw-Hill, 2008.
• Summer, ERP, Pearson Education, 2008.	
	Enterprise Systems for Management, 2nd Edition,
Pearson Education.	

- Jagan Nathan Vaman, ERP in Practice, Tata McGraw-Hill, 2008
- Leon, A. (2008). ERP Demystified, 2nd Edition, Tata McGraw Hill, 2nd edition
- Vinod Kumar Grag and N.K. Venkita krishnan, ERP- Concepts and Practice, Prentice Hall of India,2nd edition, 2006.

Intellectual Property Rights										
Course Code	Periods			Sessional	End Exam	Total	Credits			
	L	Т	Р	Marks	Marks	Marks	Cicuits			
23HA305 (B)	4	0		40	60	100	4			

**Course Objectives**: The main objective of the course is to educate the pupils on basic concepts of Intellectual Property Rights and to learn the procedure of obtaining Patents, Copyrights, Trade Marks &Industrial Design.

<u>S</u>	<u>YLLABUS</u>
UNIT – I	Periods: 8L+0T=8
Property and Rights-History of IPRs-Different form <b>Patents</b> : Meaning of Patent-Object and Value of P	ativity and its recognition and protection-Concepts of as of IPRs-Role of IPRs in R and D. atent law-Advantages of Patent to the invertors-Criteria Patents-Govt. use of inventions-infringement of Patent -
UNIT – II	Periods: 8L+0T=8
drafting and improvement-Filing Requirement of p submitted- assignment requirements-filing mechan Importance of PTC-claiming priority from either r	s-types of specification-descriptions, drawing, claim atent-Work flow chart in obtaining Patents-Forms to be nism through Individual patent office and PCT route- route-Request for re -examination and revocation-Term t: Prior art- Tangible versus Intangible prior art-Search
UNIT – III	Periods: 8L+0T=8
Trade Marks- Challenges in Non- Conventional 1	s- Concept of Distinctiveness-Trade Marks registration- Marks-Infringement of Trade Marks and remedies for own Marks-Distinction between Trade names-Trade
UNIT – IV	Periods: 8L+0T=
Neighboring/Related Rights-Economic and Moral	ject-matter-protection requirement in Copyright Law- Rights of Authors-Copyright in the Digital Context-An er of Copyright-Infringement of Copyright-Copyright- and Copyright.
UNIT – V	Periods: 8L+0T=8
	ntroduction-Conditions of protection-Essentials for an en Confidential Information-General Information-Data Act.2000.
Text & References:	
Cengage Learning India Private Limited.	perty Rights: Protection and Management. India, In: ctual Property Rights. India, In: PHI learning Private

- P.Naryan, "Intellectual Property Law", 3rd Ed, Easern Law House, 2007.
- Dr. S.R.Myneni, "Law of Intellectual Property", 9th Ed, Asia law House, 2019.

Hospital Innovations, Technology & Artificial Intelligence											
Course Code	Code		Sessional Marks	End Exam Marks	Total Marks	Credits					
	L	Т	Р	IVIAI KS	WIAI KS						
23HA401	4	0		40	60	100	4				

**Course Objective:** To familiarize the students in drug management in hospitals and also with the management of equipment in hospitals in the application of technology in health care

#### **SYLLABUS**

Periods: 8L+0T=8

**Periods: 8L+0T=8** 

#### Healthcare Innovation in life sciences:

Healthcare technology from a business perceptive – micro and macro- economy views overview of main advances in technology in the last century and their impact on social welfare the pharmaceutical sector – the biotechnology sector – the medical device sector, the dynamic of technological evaluation and capital market ingenuity – mergers, acquisitions and the advantages of scale in the pharmaceutical sector.

#### UNIT - II

UNIT – I

#### Concepts and issues related to healthcare technology:

Introduction-problems and constraints associated with healthcare technology- present trends in healthcare technology- hospitals and technology- dealing with technological problems. Planning and adopting appropriate technology in healthcare – mechanism to ensure appropriate use of healthcare technologies – developing sources of information on hospital technology- medical communications to doctors – evolutions methods of health technology.

# UNIT - III Periods: 8L+0T=8 Application of technology in different health care units: Application in diagnostic service areas (radiology, lab services etc.)- clinical services areas (nephrology, urology, cardiology, etc.)-therapeutic services- patient support areas- tele medicine – PACS –RFID- paperless hospitals- biomedical informatics – artificial intelligence and robotics in health care- factors affecting the growth of new medical technology.

## UNIT - IV Periods: 8L+0T=8 Modern Healthcare Innovations: Innovation-process and product performance, engineering entrepreneurship, smart hospitals, tele health innovations, consumer health informatics, mobile health apps, value in health management focus on long-term care industry.

### UNIT - VPeriods: 8L+0T=8Introduction to Artificial Intelligence: Definition and scope of AI-Basics of Digital Data – Health<br/>records - Differentiating AI from human intelligence- Applications of AI- AI in healthcare: Diagnosis,<br/>treatment, and medical imaging- AI and creativity: Generative models and artistic applications.

#### Text & References:

- Hoyt, R., & Hersh, W. (2018). Health Informatics: Practical Guide, 7th edition. lulu.com
- Larry Keeley, Helen Walters, Ryan Pikkel, Brian Quinn. Ten Types of Innovation: The Discipline of Building Breakthroughs, Wiley, April 2013.
- McCarthy J, Minsky ML, Rochester N, Shannon CE. A Proposal for the Dartmouth Summer Research Project on Artificial Intelligence. 1956.

- Russell S, Norvig P. Artificial Intelligence: A Modern Approach. 4th ed. Pearson; 2021.
- Sittig&Ash, Clinical Information Systems Overcoming Adverse Consequences, Jones & Bartlett Learning Publishers, 2009.
- Edward H. Shortliffe; Leslie E. Perreault, Medical Informatics Computer Applications in Healthcare and Biomedicine, Springer-Verlag New York Inc.Publishers, 2014.

Entrepreneurship & Consultancy in Health Care										
Course Code	Periods		Sessional	End Exam	Total	Credits				
	L	Т	Р	Marks	Marks	Marks				
23HA402	4	0		40	60	100	4			

**Course Objectives:** To create interest in students to start a venture, learn the intricacies of starting as enterprise, identifying opportunities, inculcating enterprising values with orientation towards setting up own enterprises and equip the student to take up consultancy work in various facets of hospital management.

	SYLLABUS
UNIT – I	Periods: 8L+0T=
Overview: Definition and Meaning of Entrep	preneurship-Characteristics and Function of Entrepreneur
	p-Entrepreneurial Laboratory-Types of Entrepreneur
Entrepreneurship Games Innovation and Entrepren	
	r Project Ideas-Normal Group Technique-Creativity. Latera
	ineering IPR-Patenting-Environment Scanning Opportunitie
in Health care-NGO Collaboration.	
UNIT – II	Periods: 8L+0T=8
Operational Feasibility: Technical Feasibility-M	Iarket Feasibility-Financial Feasibility-Economic Forecasting
Project Report Writing-Support Systems for N	New Enterprise Creation-New Enterprise Identification and
Selection Enterprise Establishment and Manageme	ent.
UNIT – III	Periods: 8L+0T=
	uments – Long term Sources – Instruments – Sources
	lian and International Funding Organizations Capita Marke
Venture and Startup Capital.	
UNIT – IV	Periods: 8L+0T=8
Consultation: Consulting industry with specific	reference to hospital and Health care Consulting Perspective
Professionalism & Ethics inConsulting Consultant	t – Client Relationship, Behavioral roles of consultants.
UNIT – V	Periods: 8L+0T=8
Entry: Initial Contracts – Preliminary Problem I	Diagnosis – Terms and Reference – Assignment Strategy and
Plan – Proposalto the Clint – Consulting Contract.	
	is – Diagnosing Purpose and Problem - Defining Necessar
Facts – Sources and Ways of Obtaining Facts – Da	
	Alternatives – Presentation of Action. Implementation &
Termination: Consulting in Various Areas of Health	_
Text & References:	6
	on How to Prepare a Project Report, Entrepreneurship
	I J I T T I T

• Holt H. David, Entrepreneurship, Prentice Hall India Publishers, New Delhi 2001 Anil Kumar S.,

Development Ir.stitute, Ahmedabad.

Entreneurship Development, New Age Publications, New Delhi, 2003

- The Journal of Entrepreneurship, Entrepreneurship Development Institute, Ahmedabad. Management consulting:Milan kubr (A guide to the profession (3rd revised edition) published by ILO.
- Edward Bono, Lateral Thinking, Penguin Books, London 1990.

Administration - AIIMS, New Delhi, 2006

Hospital Waste Management										
Course Code	Periods			Sessional	End Exam	Total	Credits			
	L	Т	Р	Marks	Marks	Marks	Cicuits			
23HA403 (A)	4	0		40	60	100	4			

**Course Objectives:** The objective of this course is to gain an overall understanding on Health care waste management including types of waste generation, classification, segregation, storage, transportation and treatment methods.

SY	LLABUS
UNIT – I	Periods: 8L+0T=8
	bries-Sources- Routes-Associated Diseases- Risks, eed-Objective and importance of Bio Medical Waste - teps in Management of BMW.
UNIT – II	Periods: 8L+0T=8
	of Infection-Common Nosocomial Infection and their Infection-Role of Central Sterile Supply Department- ol or Cross-Infection-Staff Health.
UNIT – III	Periods: 8L+0T=8
8 8 8	ories of Biomedical wastes-Disposal of biomedical dards for Waste Autoclaving-Micro Waving and Deep rage.
UNIT – IV	Periods: 8L+0T=8
of Excreta disposal-Sewage wastes-Meaning, comp	eases carried from excreta-Sanitation barrier-Methods oosition-Aims of Sewage disposal- Decomposition of acks of improper disposal of wastes-Solid and liquid
UNIT – V	Periods: 8L+0T=8
• •	afe Handling-Personal Protective Devices and other g for Doctors-Nurses-Nodal Officers and Waste
Text & References:	
<ul><li>Publishers.</li><li>Bahera. P.K. (2009). Sustainable bio-med Distributors.</li></ul>	Bio-medical waste disposal. Jaypee Brothers Medical dical waste management. Dominant Publishers & Vaste Management published by Dept. of Hospital

- Tweedy, James T., Healthcare hazard control and safety management-CRC Press Taylor and Francis (2014).
- Anantpreet Singh, Sukhjit Kaur, Biomedical Waste Disposal, Jaypee Brothers Medical Publishers (P) Ltd (2012)
- V.J. Landrum, —Medical Waste Management and disposal<sup>I</sup>, Elsevier, 1991

Hospital Hazards & Health Care Risk Management								
Course Code	Periods		Sessional	End Exam	Total	Credits		
Course Code	L	Т	Р	Marks	Marks	Marks	Credits	
23HA403 (B)	4	0		40	60	100	4	

**Course Objectives:** The main objective of the course is to provide the hazardous materials in hospitals and their health impacts, as well as various waste disposal and management procedures and development of health care risk management, the role of the health care risk manager.

# SYLLABUS UNIT – I Periods: 8L+0T=8 Hospital Hazards: Meaning-types-physical, biological, mechanical and psychological -their impact on employees-Preventive measure-Hospital Hazards Management-meaning, need, principles and purpose-Universal precautions for health care workers. UNIT – II Periods: 8L+0T=8

**Fire Hazards:** Fire Hazard Triangle-Causes of Hospital Fires-Fire Protection – Structure Planning and Design Consideration-Central Air - conditioning Facilities-Electric Installation-Water supply - fire points and Escape routes-Fuel Store-Manual Call Points-Means of Escape-Risk evaluation.

UNIT – III Periods: 8L+0T=8

**Radiation Hazards:** Biological effects of radiation hazards-Diagnostic Imaging-Radiation protection and safety-Radiation safety monitoring-Principles in the layout of a diagnostic X–ray room-Video imaging modalities-contrast media-laser imaging-Magnetic Resonance Imaging – Planning constrains-preventive measures against magnetic field hazards-Nuclear Medicine Department-Radiation Protection Facility-Radioactive Waste.

#### UNIT – IV Essentials in Health Care Risk Management: Risk Management – Role of Risk Management in Health Care Industry – Risk Identification – Risk Analysis – Risk Control – Risk Financing – ERM into Practice.

UNIT – V

Periods: 8L+0T=8

Applications in Health Care Risk Management: Enterprise Risk Management – Health Care Exposure – Risk Trending and Analysis.

Risk Financing – Risk Transfering.

#### Text & References:

- Tweedy, James T., Healthcare hazard control and safety management-CRC Press\_Taylorand Francis (2014).
- Anantpreet Singh, Sukhjit Kaur, Biomedical Waste Disposal, Jaypee Brothers MedicalPublishers (P) Ltd (2012)
- Risk Management Handbook for Health Care Organizations, Student Edition: ISBN: 978-470-30017-6
- Morse, Michael A., et al. Complete Healthcare Compliance Manual. Society of
- Corporate Compliance and Ethics & Health Care Compliance Association.

- Park k Text book on hygiene and preventive medicine, BanarsidasBhanot.
- First aid manual accident and emergency, vora medical publication.
- Enterprise Risk Management: Implementing ERM, ASHRM 2020, https://www.ashrm.org/system/files/media/file/2020/12/ERM-Implementing-ERM-forSuccess-White-Paper\_FINAL.pdf