



Hemchandracharya North Gujarat University, Patan

PH.D. COURSE WORK SYLLABUS

SUBJECT: HOSPITAL MANAGEMENT

Scheme & Course

Sr.	Paper	Nomenclature	Credits	Marks
1.	Paper-I - HM-CW-101	Research Methodology	04	70+30
2.	Paper-II - HM-CW-102	Hospital Management	04	70+30
3.	Paper-III - HM-CW-103	Computer Applications to the subject	04	70+30
4.	Paper-IV - HM-CW-104	Review of published research in the relevant field	04	70+30
5.	Paper-V - HM-CW-105	Comprehensive Viva	04	100

Notes:

1. The candidate has to obtain a minimum of 55% of marks or its equivalent grade points in aggregate in the course work in order to be eligible to continue in the Ph.D. programme.
2. If candidate obtains 'F' or 'Ab' grade in the course/ subject. He/ she will be treated to have failed in that course. He/ She has to reappear in the examination in the next semester.

Paper-I	HM-CW-101	Research methodology	Credit-4	(70+30)
UNIT-1	Introduction to research methodology, design and implementation of research methods, types and steps in research, Objectives of research, Techniques of research formulating, reviewing the literature. Mode of approach of actual investigation, drawing inferences from data Qualitative and Quantitative research approaches, assessing the status of the problem, Characteristics and components of research problem.			
UNIT-2	Basic concepts of research Paper /Thesis writing and report generation, Writing research abstract, summary, Introduction, review of literature, materials and methods, presenting the results, writing the discussions and citing the references, Types of research studies and research methods, Data collection and data analysis. Writing scientific report: Planning, preparation, draft, revision and refining; writing project proposal to funding agency.			
UNIT-3	Testing of Hypothesis: Meaning, Basic concepts, Flow diagram, Power of hypothesis test, Important Non-Parametric tests: Sign, Run, Kruskal-Wallis tests and Mann-Whitney test, Important parametric tests, Hypothesis Testing of Means, between variance, Comparing Two related samples, Testing of Proportion, Difference proportions, Comparing variance to hypothesized population Chi-square tests-ANOVA-One way and Two way, Equality of variances of two normal populations, hypothesis testing of Correlation coefficients, Regression Multivariate Analysis, Factor Analysis, Structure Equation Modeling Limitations of Tests of hypothesis.			
UNIT-4	Ethical Issues : Code of Ethics in Research, Ethics and research process, Importance of ethics in research, Ethical committees, Commercialization, copy right, royalty, intellectual property and patent law, track related aspects of intellectual property rights, Reproduction of published material, Plagiarism, citation and acknowledgement, reproducibility and accountability, Editing			
UNIT-5	Sampling -introduction, definitions, theory of sampling, techniques of sampling, central limit theorem, Sandler's A test, statistical criteria of good sampling and required size, stratified sampling vs random sampling, minimization of variance in stratified sampling, transmission and storage of samples, Concept of standard error.			



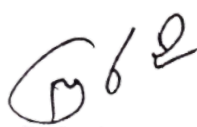
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- UNIT-1** Health and wellbeing, Principle of Health and Hospital Management, Healthcare delivery system, Healthcare settings, Healthcare function, public health surveillance, Healthcare promotion, Healthcare policy, healthcare infrastructure. Classification of Healthcare system in India, Types of Hospital in India. National Health Programme, Human behavior, Group behavior, Organisation behavior, Traditional approach, Frederic W Taylor's scientific management, Henry Fayol's principles of management Principle of Management, Theory of Motivation, Crisis management.
- UNIT-2** Health economics: Basic concept, Demand and Supply of Healthcare, DALY AND QALY Healthcare cost, cost benefit, cost effectiveness, cost minimisation, cost utility and Break even analysis. Healthcare finance, Healthcare financing model-Beveridge model, Bismarck model, Healthcare financial tools, National health insurance, Social health insurance, Community based health insurance, Private health insurance,
- UNIT-3** Demography and Epidemiology: Demographic transition theory, Demographic measures : Crude birth rate, Crude death rate, Infant mortality rate, maternal mortality rate, Fertility rate, communicable disease and non communicable diseases, census , national family health survey , National health account , National health mission , National rural health mission , National urban health mission, marketing of hospital services, marketing mix, holistic marketing, forecasting demand, segmentation , targeting and positioning, green hospital, nucleus hospital, patient satisfaction and patient experience
- UNIT-4** Financial Management and Accounting: Basic concept of accounting, Nominal account, Types of account: Nominal account, real account, personal account, rules of account, Profit and loss account, trial balance sheet and balance sheet. Basic concept of financial management: present value, future value, working capital management, cash inflow and outflow, capital budgeting and types leverag, material and inventory used in a hospital, inventory techniques, ABC/VED/SDE Analysis, Type of inventory cost.
- UNIT-5** Human Resources Management and Healthcare Laws : Role of HRM in hospital , human resource planning , recruitment policy, selection process, performance evaluation, promotion and transfer, labour laws applicable to hospital , employment state insurance act, 1948, the code on social security 2020, maternity benefit act, 1961, national food security act, 2013, work man compensation act, 1923, biostatistics: descriptive measure, Healthcare Laws.

Reference Books:

1. Kotler Philip, Gary Armstrong, Principles of Marketing, Prentice Hall, New Delhi, 1997.
2. Financial Management – Prasanna Chandra, Tata McGraw Hill Publication.
3. HRM in Hospital Goel R.C, Prentice Hall Of India.
4. Gupta S.P., Statistical methods, Sultan Chand , New Delhi , 1993.
5. Managing hospital material management – Kowalski-Dickow Associates, Inc Staff, AHA, American Society for Healthcare Materials Management.
6. Luck.J.David. Ronald S. Rubin , Market Research, Prentice Hall of India, New Delhi , 1999
7. Foundation of Epidemiology – Gilienfeld
8. Srinivasan A.V. (ed), Managing a modern hospital, Chapter 3, Response Books, New Delhi, 2000.
9. Stephen Robbins – Organizational Behaviour - Prentice Hall
10. A Handbook for Accounting for Hospital Management, By D. K. Chatterjee, Himalaya Publishing House Pvt., Ltd.
11. Health Economics and Policy- James W Henderson, South-Western, Thompson Asia Pvt. Ltd.




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Paper-III	HM-CW-103	Computer Applications to the subject	Credit-4 (70+30)
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- UNIT-1** Introduction to computers- history of development of computers Main frame mini, micro and super computer systems-computer hard ware CPU, input, output devices, auxiliary storage devices, interpreter, compiler, machine language, assembly language, high level languages.
- UNIT-2** Introductory Operatives-Package, MS Word: word basics, formatting text and documents, introduction to mail merge & macros. MS Excel: Excel basics, rearranging worksheets, working with charts and graphs, using worksheet as databases, Use formulas and functions, MS PowerPoint : PowerPoint basics, creating presentation MS Access: Database creation, screen/form design, generation using wizard, Preparation of a document, Editing of a document, Preparing a scientific manuscript, Features of Acrobat Reader.
- UNIT-3** Hospital Management Information System: Database Management system, types of DBMS, Module of HMIS Clinical Information system, Patient information system, Laboratory information system, Radiological information system, Pharmacy information system, Nursing information system Administrative information system, support service technical information system etc.
- UNIT-4** Literature Searching: On-line searching, Database, Scifinder, Scopus, Locating research article, Citation Index, Impact Factor Computer Software in Hospital and Healthcare industry:Epi Info Electronic medical record, DICOM and PACS, Digital Health ID, E-governance in Healthcare: E-mamta.
- UNIT-5** Introduction to Internet and its applications: web browsers - World Wide Web, Search Engines, e-journals, literature Survey, Popular journals and websites, literature searching and collection using e-journals.
Preparing presentations:
1) Research papers: Using word processing software - MS Word, Drawing graphs and diagrams - Excel. Paper writing for International Journals, Process for online submission
2) Seminar presentations -Power point for oral and poster presentations

Paper-IV	HM-CW-104	Review of published research in the relevant field	Credit-4 (70+30)
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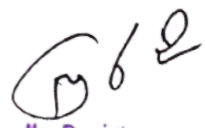
For this paper candidates will have to review literature in an area of research, prepare a research proposal and submit a report to the University at the end of the course work. The selection of the problem and preparation of the proposal will be in consultation with research guide.

Paper-V	HW-CW-105	Comprehensive viva voce	Credit-4 (100)
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Candidate will face a Comprehensive Viva-Voce of 4 credits on the subject of Research Methodology, Advanced Course in Hospital Management and literature review report submitted to the university. The Presentation will have to be made by the candidate and it will need to be prepared in consultation with research guide.

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