COURSE AND CURRICULUM OF MASTER OF HOSPITAL ADMINISTRATION (MHA) COURSE

KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES

KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES MASTER OF HOSPITAL ADMINISTRATION (M.H.A.)

Course Regulations and Course Structure

Objectives of the Programme

- To provide adequate practical and theoretical knowledge and training in all the areas of hospital administration
- To maximize the utilisation of the MBBS persons in clinical administration rather than placing them for general administration.

Duration of the Programme

The duration of the **MASTER OF HOSPITAL ADMINISTRATION** (**M.H.A.**) shall be two years. It is a full time course.

Infrastructure Requirements:

Instructional Area:-

Instructional area includes two classrooms with audiovisual including LCD projection facilities, library with on-line facility, seminar hall etc. The carpet area requirement of the classrooms depends upon the number and type of seating arrangements for the students with provision for a platform, writing board, a table and a chair for faculty.

Type of Rooms	Carpet area requirements in Sq.m/ student				
Classification of size	Minimum	Desirable	Suggested ranges in Sq.m		
Classroom for 20 students	1.3	1.5	20-26		

Administrative area in Sq.m:- (When the centre is a stand alone Institute and not attached to a college)

Principal's Room	20
Principal's Office	12
Conference Room	50
Main Office	25
HOD & Faculty room	30
Reception	10
Total	147 sq. m

•Basic Medical Sciences laboratory cum museum to display and teach various specimens, exhibits, charts, models etc.

Administrative area in Sq.m:- (When the centre is attached to a college)

Administrative area comprises of HOD's office of 10 sq. m, and staff room of 30 sq.m. and basic medical sciences laboratory cum museum to display and teach various specimens, exhibits, charts, models etc.

Library

Library should have a space requirement of 22 Sq.M to occupy 20 students at a time for reference studies and general reading and related academic works. The library should be linked to internet with all library software packages linking all major libraries to execute references, and research studies.

Once the programme is in full swing there should be minimum 15-20 number of titles in each subject offered/taught and total minimum of nearly 250 titles.

At the initial stage the institution need to have a minimum of 200 titles and to add up in the next three years.

Minimum 3 specific topic related magazines/journals/periodicals needs to be subscribed.

Staff Requirement:

Sl		No Of	Qualification	Experience
No	Designation	Posts		
1.	Professor and HOD	1	MD (HHM) / DNB(HHM)/ M. Phil (HHSM) / MHA	10 years teaching experience at post graduate level OR 12 years managerial experience in hospital, of which at least 5 years at senior level comparable to that of an Administrator of 500 bedded multi specialty hospital and 3 years teaching experience at post graduate level.
2.	Associate Professor	1	MD (HHM) / DNB(HHM)/ M.Phil(HHSM) / MHA	8 years teaching experience, of which minimum three years at post graduate level OR 10 years managerial experience in hospital, of which at least 5 years at senior level comparable to that of an Administrator of 500 bedded multi specialty hospital and 3 years teaching experience at post graduatelevel.

3.	Assistant Professor	2	MD (HHM) / DNB(HHM)/ M.Phil(HHSM) / MHA	5 years teaching experience of which minimum three years at post graduate level OR 7 years managerial experience in hospital, of which at least 3 years at senior level comparable to that of an Asst.Administrator of 500 bedded multi specialty hospital and1 year teaching experience at post graduate level.
4.	Lecturer	6	MD (HHM) / DNB(HHM)/ M.Phil(HHSM) / MHA / PG with LL.B / LL.M / MBA / MHRM / MA (PM&IR) / CA MSW / M.Com. M.Sc.(Anatomy) M.Sc.(Physiolog y)/MPT/M.Sc Microbiology)	1 year teaching experience at post graduate level OR 2 years managerial experience in hospital.
5.	Asst. Lecturer/ Tutor	2	MD (HHM) / DNB(HHM)/ M. Phil (HHSM) MHA / PG with LL.B / LL.M / MBA / MHRM / MA (PM&IR) / MCA /CA M.Com/M.Sc.(Med. Docu.) B.Tech. M.Sc.(Anatomy) M.Sc.(Physiolog y) M.Sc.(Microbiol ogy)/MPT	

Qualifications of Staff

The following qualifications can be considered as prescribed qualifications to handle various theoretical and practical programmes in Hospital Administration & Management.

- MBBS & MD (Hospital & Health Management)
- MBBS & DNB (Hospital & Health Management)
- M. Phil (Hospital and Health Systems Management)
- Master of Hospital Administration (MHA)
- Postgraduate Degree with LL.B., or LL.M.,
- Master of Business Administration (MBA)
- Master of Human Resource Management (MHRM / MA (PM & IR)
- Master of Social Work (MSW)
- M.Com. (Master of Commerce)
- M.Sc.(Physiology) (Microbiology)
- M. Sc.(Medical Documentation)
- M.C.A
- M.Sc. (Anatomy)
- MPT
- CA
- B.Tech (Bio medical / Computer)

Practical Training Programmes

Substantial percent of the academics should be devoted to practical exposure in management learning. In this regard, the institution must have its own hospital of the following specifications to conduct Hospital Management programme.

Facilities required at the hospital are:

- There should be a minimum of 500 beds in the hospital
- The hospital should be within 7 K.M. radius of the teaching institution.
- All main medical and surgical specialties including general medicine, general surgery, obstetrics, and gynecology, paediatrics, ENT, Ophthalmology, Orthopaedics, Dermatology, Causality, etc. should be there.

- At least five major super specialties like Cardiology, Neurology, Neurology, Urology, Neurosurgery, Cardiothoracic surgery, etc should be there.
- All administrative, supportive and ancillary departments like Administration,-Materials Management, Stores, Personnel Public Relations Finance Accounts Registration Medical Records Bio Medical Radiology CSSD Corporate Relations Insurance Billing Pharmacy Canteen Plumbing Electrical Civil Laundry Waste Management ETP Incinerator Physiotherapy Medical and Psychiatric Social Work OPD– ICUS Security Casualty Laboratory Microbiology Bio Chemistry Blood Bank Haematology Histopathology, Pathology.etc should be there.

Teaching and training requirements

- Class Room Boards
- Class Room chairs with writing boards.
- Overhead Projector, screen and marker: Two Numbers
- Liquid Crystal Display: two Numbers with supportive facilities

Eligibility

Candidates for MHA course should possess a Bachelors Degree recognized by any of the Universities approved by U.G.C with at least 50 percent marks in optional subjects or a Post Graduate Degree. For candidates with Postgraduate degree or a postgraduate diploma, 10% marks will be given as grace marks along with the total marks at degree level. Candidates from statutory reservation categories are eligible for relaxation in percentage of marks as per government and university norms.

Selection to the Programme

Selection of candidates to MHA programme is primarily based on their marks obtained in the qualifying examination and personal interview. If the number of candidates applying for the course is four times higher than the seats allotted to the college, the college may conduct a preliminary screening test of objective type to assess the candidate's general awareness, attitude, intelligence, and analytical competence. This can be followed by a group discussion which brings out the leadership qualities in an individual.

Intake

15 seats for 500 beds capacity and for every additional 50 beds one seat each subject to a maximum of 25 seats. Admission is to be made strictly once a year.

Pedagogical Approaches

The proficient and lively theory classes shall be equally blended with various practical applications and group activities. Activities aimed at the overall development of the students shall be included. Hospital visits, regular visits to different administrative sections of the hospital, visits to various service organizations and community programme and camps and organizing seminars and conferences etc also shall be done to improve the overall capacity of the candidates.

Internship Placements

Various practical training programmes have been keenly incorporated throughout the MHA course. In addition to the two major placements, students are exposed to the management of various public and private sector institutions as well as voluntary organizations and community Health programme.

Within six months' of induction to the course, students shall do an organization study of 15 days' duration for which students can select a hospital with minimum 100 beds as their target of study.

In the first year students shall undertake a project which shall be done in established hospitals within and outside the state. The duration is 15 days. The students have to select any special department or management issue as the topic of work. The report is to be prepared as per research methods.

The final year placement extends over 45 days and is done in major hospitals with more than 300 beds. The student is expected to study a particular topic or issue relating to hospital administration. Satisfactory completion of project placement and presentation in the form of a project report is mandatory for appearing the viva voce examination in each year. Weightage in marks will be given for project reports for appropriate application of the methods and techniques of statistics and operations research.

Scheme of Examination and Syllabus

The university examinations will be held at the end of respective years.

The internal marks will be awarded by the HOD on the basis of the assessment done by the faculty relating to the class tests, assignments, performance in the seminar, class participation etc.

No candidate shall be admitted to the university examination unless he/she possess 75% attendance of the total theory and practical sessions.

The viva voce examination and valuation of project report will be conducted at the end of each year by a board constituted by the university with at least 2 internal examiners (one of which shall be the HOD) and one external examiner.

A candidate will be declared to have passed the whole examination in II class, if he/she secures 50% marks in aggregate for all the written papers and project report and viva voce together of all the semesters and with an individual minimum of 50% marks for each written paper (section wise minimum of 50% is required for each section of the written paper for all papers where A & B sections are given ie papers 3,4,5,&7 of first year and 2,3,4,&5 of second year), project report and viva voce, at the university examination. Those candidates who secure more than 60% but below 75% marks in aggregate of all the semester examinations will be placed in 1st class. Candidate securing marks at the tune of 75% and above in aggregate will be declared as passed with distinction. There will be no supplementary examination.

A candidate who secures highest marks in aggregate of all the examinations will be declared as first rank holder provided he/she passes all the examinations in the first appearance itself.

A candidate, on the event of failure in any one or more project report and viva voce, he/she may reappear and pass the concerned project report and viva voce before the final examinations results are passed by the Board of examiners constituted by the university for the purpose with at least one internal examiner, one external examiner and the HOD/ Chairman.

Apart from the above regulations, common regulations to post graduate programme of Kerala University of Health and Allied Sciences will also be applicable to this course. The year wise details regarding the name of papers components and marks are detailed in tables as under.

First Year

SL.	No. And Name of papers	Internal	University		Minimum for	Total	Contact
No.	component	Assessment	Examination		pass (Internal+		Hours
			Min	Max	Uni. Exam)		
			IVIIII	IVIAX			
1	Paper I General Management	20	50	100	60	120	150
2	Paper II Hospital Administration	20	50	100	60	120	150
	Part I						
3.	Paper III						
	Research methodology -Part A	10	25	50	30	120	150
	Biostatistics - Part B	10	25	50	30		
4.	Paper IV						
	Medical Records - Part A	10	25	50	30	120	150
	Medical Equipment -Part B	10	25	50	30		
5.	Paper V						
	Organisational Behaviour –Part A	10	25	50	30	120	150
	Managerial Communication-Part B	10	25	50	30		
6.	Paper VI Operations Research	20	50	100	60	120	150
7.	Paper VII						
	BMS –Part A	10	25	50	30	120	150
	Epidemiology-Part B	10	25	50	30		
8.	Paper VIII Organization Study (60			30	60	15days
	Internal)						
9.	Paper IX Hospital Project	50	50	100	75	150	15days
10.	Paper X project Defense & Viva Voce		75	150	75	150	
	TOTAL	250		950		1200	

Second year

SI.	No. And Name of papers	Internal	Uni	iversity	Minimum for	Total	Contact
No.	component	Assessment	Examination		pass (Internal		Hours
			Min	Max	uni. Exam)		
			IVIII	IVIAX			
1	Paper I	20	50	100	60	120	150
	Hospital Administration Part 2						
2	Paper II						
	Hospital Economics –part A	10	25	50	30	120	150
	_	10	25	50	30	120	150
	Finance- Part B	10	23	30	30		
3.	Paper III						
	Management Accounting – Part A	10	25	50	30	120	150
		10	25	50	30		
	Cost Accounting -PartB						
4.	Paper IV						
	Materials Management -Part A	10	25	50	30	120	150
	_	10	25	50	30	120	150
	TQM -Part B	10	23	30	30		
5.	Paper V						
	Marketing for Health care	10	25	50	30	120	150
	Services - Part A	10	25	50	30		200
	Strategic Management - partB						
6.	Paper VI Legal Framework for	20	50	100	60	120	150
	Hospitals						
7.	Paper VII Skills Development in	80			40	80	200
	Hospital Administration (Internal)						
	Domon VIII Herrital During	400	100	200	450	200	45-1
8.	Paper VIII Hospital Project	100	100	200	150	300	45days
9.	Paper IX project Defense & Viva		100	200	200	300	
	Voce						
	TOTAL	300		1000		1300	

I Year

PAPER 1: GENERAL MANAGEMENT

Objectives

Management

This module will introduce students to the field of management. It covers the historical emergence of management as a professional field and academic enterprise. Students will be confronted with the core competence areas of management.

Human Resource Management

This module enables the student to get a perspective on human resource. Further it familiarizes the students with various concepts, issues and practices in dealing with people in health sector organizations.

CONTENTS:

Management

History and growth of management concepts- Evaluations of management theories. Scientific management school - classical organization theory school - The behavioral school- Management science school - Systems approach - Contingency approach.

Management Levels and Skills-Management- Organizational Effectiveness -

Planning- organizational planning- steps- Environment - Environmental factors

Environmental Analysis -SWOT Analysis- objective setting – Types of plans – Forecasting – Barriers in effective planning

Decision Making – Types of decisions – steps.

Organizing – Process – Departmentalization – Delegation – Decentralization – span of control – formal and informal organization – line and staff functions – Authority – Power

Staffing – Manpower planning –recruitment– Selection – Training and Development

Controlling – Organizational control – Control techniques

Directing –Orders- job satisfaction – morale-

Coordinating- types-techniques-difficulties

Management by objectives - Office management-Time management

Discipline -disciplinary proceedings.

Case studies—Hospital visits.

Human Resource Management

Concepts: definition – Scope of human resource management – Role of personnel function – Objectives – Advisory function – Relation to other departments – Typical organization set up of a personnel department.

Manpower planning – Job Analysis - Job description – Placement – Source of labor supply – Methods of selection – Tests in selection – Induction.

Training and Development – Objectives – Types – Methods.

Management Development – Meaning – Scope – Methods.

Motivation

Performance appraisal

Counseling

Work environment – Fatigue – Safety and accident prevention – Accident records.

Morale – Employee attitudes- Behavior – Significance of employees productivity – Job satisfaction – Job change – Job rotation – Job enlargement – job enrichment.

Collective bargaining – Employee participation in management

Wage and salary administration – Principles and techniques of wage fixation – Job evaluation – Merit rating methods of wage payment – Incentive schemes.

Trade unions – Organization structure – Policies – Joint consultation

Grievances

Organizational disputes

Organizational exit – Planning for retirement

Industrial safety

Social Security

Case studies

References

Harold Koontz, Heinz, weimrich: Management

James A.F., Stones, R. Edward: Management

Rustom S. Daver: Priciples of Management

Tripathi P.C and Reddy P.N.: Principles of Management

James A Willian: Hospital Management., Mac Millan Education Ltd., New Delhi.

Rao U.S., Narayanan P.S.: Management Concepts and Thoughts

Basu C.R: Business Orgaisation & Management, Tata McGraw Hill

Ivancevich, Donnelly & Gibson: Management Principles & Functions, AITBS Publishers

Chattergee NN: Management of Personnel in India Enterprises, Allied Book Agency, Calcutta

Dale S. Beach: Personnel., Mac Millan Publishing Co.,

Finley RT: Personnel Manager and his job., American Management Association., New York.

Mammoria C.B.: Personnel Management, Himalaya Publishers

Tripathi P.C.: Personnel Management and Industrial Relations., Sultan Chand & Co.,

J.B. Miner and M.G.Miner: Personnel and Industrial Relations – A managerial Approach.

Jyothi P & Venkatesh D.N: Human Resource Management, Oxford

PAPER II- HOSPITAL ADMINISTRATION -I

Objective

To enable the students gain insight in to various aspects like importance, functions, policies and procedures equipping, controlling, co-ordination, communication, staffing, reporting and documentation of both clinical and non clinical services in a hospital.

The course enables the students to plan in advance to face the various problems related to hospital administration and to take preventive actions accordingly. This also enables the students to acquire knowledge about the concepts for provision of good facilities for patient care and to assure best possible return on investment in health facility through good planning.

Contents

Hospital Administration

Definition and Dimension of health – Evolution of modern medicine – Review of different committee reports on health care – Bhore committee report, Muddiar committee report, Chadhha committee report, Mukherjee committee, Jungal walta committee, KartarSingh committee and Srivastav committee reports.

Introduction to hospital in the health system – definitions – hospital and medical care institutions – types and functions – medical care.

History and development of hospitals – hospitals as an organization – hospital as part of social system - its role in primary health care to achieve health for all beyond.

Hospital organization – governing authority – administrator – business aspects – clinical aspects – channels of authority – communication.

Hospital administrator – qualifications – responsibilities- authority – relationship – motivation – role – functions.

Hospital hazards – disaster management programme.

Administration – multi specialty hospital – teaching hospital – private hospital – voluntary hospital – district hospital – thaluk hospital – primary health care – standards stipulated by IMC and state council.

Recent trends in hospital administration – professional – educational – research – service Public relations in hospital – importance – understanding – support – techniques hospital utilization and evaluation.

Biomedical waste management and handling- rule- collection – Transportation and disposal – Radio active waste handling – Liquid, metals, chemicals and drug wastes.

Security management of hospitals – General security – fire gas – Theft.

Problems in hospital administration case studies evaluation – solutions.

Hospital Planning

Planning – Measuring the community needs – Services required – Services available external – Internal factors.

Role of architects – requirement – Preliminary sketches – Final sketches – Models – Working drawings – Specifications – Cost estimates – Construction problems – Control modifications – Buildings, rules and bye laws.

Site examinations – Physical environment – Expansion possibilities – Utilities – Water – Electricity – Sewer lines – Telephones – Transportation – Permits – License.

Hospital building – external – Internal arrangements – Architectural aspects – Residential accommodation.

Role of administrator in building a hospital – Physical planning of departments – OP- IP – Laboratory – dietary – Laundry – MRD – Nursing _ Operation theatre – Emergency services – Blood bank – Intensive care units.

Equipment requirements – Built in equipment – Locally available – Expandable Planning and management of support services-

CSSD – MRD – Clinical Laboratories-Laundry – Radiological services- Security services – Medical records- Transportation services – Front office – Guest relations – Ambulatory care – Medical gas supply services – Hospital stores- Mortuary – Kitchen services – Dietary – Hospital Sanitation – Pollution – Waste disposal – Control of insects and rodents – House keeping – Safety and hygiene – Energy conservation – Water conservation.- Maintenance – Types – Policy organization for maintenance – Electrical – Civil – Medical and hospital associated equipment.

Convert Richard P & Mc Nulty Elizabeth: Management Engineering for Hospitals, Chicago.,

Deegum II & Arthur: Management by Objectives., Maryland, Aspen 1977.

Desai VA: Hospital Administration Vol. 1, Madurai, 1989.

Goel SL & Kumar R: Hospital Administration and Management Vol. 2., New Delhi., Deeps.

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Kauer Antony R & Neuhauser Ducan : Health Services Management – Reading and Commentary., Michigan

Parthasarathy S.K. Hospital Services Management, KJ Hospitals, Madras.

Sainik Ashok: Role of Hospital Administrator in India, ISHA, Bangalore, 1986.

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Huss Carol: Indian Hospitals – Planned organisational changes in their structure and functioning, VHAI, New Delhi.

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Kunders, G D (2004)- Facilties Planning and Arrangement in Healthcare, Prism Books Pvt Ltd, bangalore.

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Sharma K R, SharmaYashpal (2003) – A handbook on hospital Administration, Durga Printers, Jammu.

Sharma, Madhurai (2003) – Essentials for Hospital Supportive Services, Jaypee Brothers, New Delhi

Tabish, Syed Amin – Hospital Planning, Organisation and Management.

John Rea., Jeffer J. Frommelt: Buildings a Hospital – A prime for administrators.

James Lifton., Ownen B. Hardy: Site Selection for health care facilities.

PAPER III - Research Methodology & Biostatistics

Objective

Research Methodology

The topic is intended to provide an adequate knowledge about research methods to help them in research work settings wherever survey design and secondary data analysis is involved in the health system.

Biostatistics

To assess health status and needs of the community, for planning, implementation and evaluation of health programme for hospital/health management. It also enables to analyse the performance of the hospital.

Contents

Research Methodology

Research methods – Historical perspectives – meaning – types – objectives – nature – scope Scientific research – role of theory in research – research problem – concepts – formulation – identification – selection of research problems in management

Research design-types- explorative – descriptive – experimental

Sampling techniques: Criteria of a good sample – sampling designs – simple random sampling – stratified sampling – systematic sampling – multi phase & multi stage sampling – sample size – use of sampling – errors in sampling.

Methods of data collection – classification of data – construction of frequency distribution table – tabulation of data – general rules of tabulation – types of tabulation.— source-methods-tools – observation – personal interviews-interview schedule

Presentation of data – diagrammatic – graphic – types – line-bar-pie-scatter-pictogram-spot maphistogram-frequency polygon-frequency curve - Ogive

Content analysis - Data processing and analysis-problems-types of analysis-inferences-planningevaluation

Interpretation and report writing – meaning – techniques of report writing

Action research programmes – Practical: Project work and seminars

Bio Statiostics

Statistics – definition – meaning – branches – biostatistics – health statistics – vital statistics, Application and uses of biostatistics in health management and epidemiology.

Classification of data – construction of frequency distribution table – tabulation of data – general rules of tabulation – types of tabulation – Presentation of data – diagrammatic – graphic – types – line-bar-pie-scatter-pictogram-spot map-histogram-frequency polygon-frequency curve - Ogive

Measures of central tendency – mean (calculation for individual, discrete and continuous series) median (Calculation for individual, discrete and continuous series – mode (for individual series). - Empirical relation connecting mean, median and mode. Merits and demerits of each type.

Measures of dispersion: Range and Mean deviation (for individual series) – Standard deviation (Calculation for individual, discrete and continuous series.) Co-efficient of correlation – uses – different types of correlation – scatter diagram – correlation coefficient – rank correlation coefficient. Regression – basic concepts – linear regression – lines of regression – estimation using lines of regression.

Hypothesis – testing of hypothesis – bias.

Probability – basic concepts. Normal distribution – binomial distribution – characteristics – standardized normal variate.

Tests of significance – uses – sampling distribution – standard error – null hypothesis – levels of significance – test for large sample – normal test – test for proportion – test for small sample – simple test – paired test – unpaired t test – chi-square test (for a 2 x 2 table)

Estimation – basic concepts – interval estimation – population mean and proportion.

References

Sarantakos: Social Research., Macmillan Press., Australia

Festinger and Katz: Social Research., Longman., London

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Kothari C.R.: Research Methodology – Methods and Techniques., Wiley Eastern Limited., Delhi.

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Leius A.E: Biostatistics in Medicine Little Brown & Co. Boston

Hill A.B. Principles of Medical Statistics, Oxford University Press., New York

Lwanga S.K & Cho-Yook-Tye: Teaching Health Statistics Twenty Lesson & Seminar Outlines., CBS Publisher

I YEAR

PAPER IV – MEDICAL RECORDS & MEDICAL EQUIPMENTS

Objective

Medical Records

The main objective of this course is to provide a through knowledge and familiarity on the importance of medical record sciences, medical terminology. Various theoretical and practical issues in the context of the above areas are covered here.

Medical Equipments

The main objective of this course is to provide a through knowledge and familiarity on the importance of equipment management and maintenance in hospital.

Contents

- 1. Medical Terminology
- 1. Objectives
- 2. Basic concepts
- 3. Elements of medical terms
 - (a) Root/stem
 - (b) Prefixes
 - (c) Suffixes
 - (d) Colours
 - (e) Numerals
 - (f) Symbols
 - (g) Abbreviation
- 4. General and special practices in medicine
- 5. Suffixes, words and phrases on operative terminology
- 6. Terms pertaining to body as a whole
- II. Health Information Management
 - 1. Historical Development of Medical Record.
 - 2. Uses and values of medical record
 - 3. Medical record forms basic and special
 - 4. Flow of medical record
 - Registration
 - Numbering unit, serial, serial –unit
 - Deficiency checking
 - Assembling

- Coding ICD X, ICD 9-CM, CPT 4, ICP, ICD 0
- Indexing master patient ,disease index, physician, operative
- Filing alphabetic, terminal digit, middle digit, straight numeric.
- 5. Format types source oriented (SOMR), problem oriented (POMR) integrated
- 6. Mental health record
- 7. Analysis of medical record Qualitative, Quantitative and statistical
- 8. Committees executive; credential; safety; infection surveillance, prevention and control; medical record; audit
- 9. Legal importance of medical record: Consent, release of information, legal cases, medical record as legal document.
- 10. Electronic Medical Record (EMR)

Medical Equipments

Bio-medical equipments – requirements – function – allocation to various therapeutic and investigative departments.

Radiology: X-ray –fluoroscopy – CT – MRI-PET SCAN. /Biochemistry – Calorimeter – flame Photomer – Spectrometer – Coulter counter – Blood gas analyser – Auto analyser.

Physiotherapy: Muscle stimulator – short wave diathermy – ultrasonic and microwave diathermy./
Urology – haemodialysis – lithotripsy./ Cardiology – ultrasound scanner and EchocardiogramAngiogram – Tread Mill –ECG monitor and recorder. /Neurology – EEG – EMG – VEP. /ENT:
Audiometer. /Cardiac care Unit – pacemakers – defibrillator – ventilator – infusion pumps –
patient monitoring system. /Ophthalmology: Fundus camera – Nd – YAG & argon lasers –
perimeter. /Operation Theatre – ECG monitor – anaesthesia machine – pulse oxymeter suction
apparatus – endoscopes – electrosurgical unit – heart lung machine – oxygenerators – autoclave –
sterilisers.

Maintenance – preventive – breakdown. Electrical safety of medical equipments – accident prevention – psychological effects of electrical current – diagnosis – calibration – repair of equipments – radiation safety – effects of radiation – safety precaution – protection methods – hospital safety. Trouble shooting biomedical equipments.

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Park K: Park's Text Book of Preventive and Social Medicine., M/s Banaridas, Jabalpur.

I YEAR

PAPER V – ORGANIZATIONAL BEHAVIOUR & MANAGERIAL COMMUNICATION

Objective:-

Organisational Behaviour:

To familiarize the students with the behavioral patterns in various context in an organization and to develop insight into ones own self and the functioning of others.

Managerial Communication:

The topic is intended to provide knowledge and skills about various communication proceedings involved in the management process and also to acquaint them the need of effective public relations.

Contents:-

Organisational Behaviour:

Organizational behaviour: nature – scope –meaning – significance – importance – classification.

Organizational Goal- importance – individual goals – group goals

Individual behaviour: Personality – learning – attitudes- perception – motivation – job satisfaction

Motivation – theories – frustration – conflict management – stress management

Job satisfaction – theories – promoting job satisfaction – problems of absenteeism and turnover

Group behaviors: Types – formal – informal – group process – characteristics- group culture – group formation –social influence – group dynamics – group conflict – interpersonal – inter group

sociometry – interaction analysis.

Leadership and supervision – concepts – theories – functions – models – factors influencing leadership role – essentials – styles – supervision – pattern of supervision.

Decision making – process – types – influencing factors – management techniques.

Division of labour – principles – group in organization – co-ordination – inter and intra coordination.

Team Building – need in health sector – team meeting.

Organizational dynamics and change – types – sources – change process – human elements in change.

Organizational development: Concept- objectives – goals – process – behavioral sciences approach to OD- power and politics – control – organizational effectiveness – organizational climate – organizational culture.

Industrial engineering – Ergonomics – Work simplification – Job enlargement – Job enrichment – Value analysis – time study- Motion study.

Application and cases with special reference to hospital / health administration

Practical: OB lab experiments

Managerial Communication:

Communication in management process – effectiveness – Communication opportunities – Choice of media – Formal – Informal – Types – techniques.

Group communication – Methods – Problems – Solutions – Meetings – Committees – Conference responsibilities of chairman – Reporters – Participants – Reporters role.

Speeches – Structure of speech – Drafting of speech – Speeches for different occasions

Report writing – Types of report – Structure – Methods of collecting and preparing material drafting of report – Preparing a press release – Press conference

Business correspondence – Drafting of letters – Circulars – Answering letters.

Office orders – Office circulars – Office notes – Suggestions – Complaints – Office memorandums.

Meeting of Board of Directors – Board report – Chairman's speech

Meeting documentation – Notice of the meeting – Agenda – Chairman's speech – Recording meetings – Writing minutes – Minute book – Writing meeting reports – Assignment – Writing annual report

Organizational communication-its evaluation

Research communication

Electronic Media and communication

Public relations – Scope – Tools – Public relation as a catalyst for change

Public relations – With individual – Group organization – Press – Government departments.

Press language – News – News writing – Publicity – Media planning

Group process lab: Workshop – Seminar – Media and advertising lab Self development and assessment – Self assessment- self awareness – perception and attitudes – values and belief system – personal goal setting – career planning – self esteem – Building self confidence.

Planning, preparation, delivery, feed back and assessment of – public speaking, group discussion and oral presentations.

Interview – Listing and observation skills – Body language.

Managing time-

Improving personal memory – rapid reading, notes taking – complex problem solving – creativity.

Team Building- TOT

Stress Management

Setting skills.

Case presentation and practical in the above areas.

References:

Fred Luthans: Organizational Behaviour McGraw Hills., New York

Robbins S.P.: Organizational Behaviour., Eaglewood Cliffs., New Jersy, Prentice Hall Inc.

Koreman: Organisational Behaviour at Work – Organizational Behaviour., McGrew Hill Publishing Co.,

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Colin Grant: Hospital Management

George F. Wieland: Improving health care management. Organizational development and change.

Cummings LL: Towards Organizational

Dwivedi: Human Relations and Organizational Behaviour., Macmillan India Ltd., Madras.

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Krishna Mohan & Meera Banerji, Developing Business Communication., Mc Millan Education Ltd.

Rajendra Pai & Bhatnagar OP: Education and Communication for department

Raymond V Lesikar John., D. Pettil Jr & Lakshman C Arya: Business Communication, All India Traveller Book Seller., New Delhi.

Raman Meenakshi & Prakash Singh: Business Communication

Sharma R & Krishnamohan: Business Correspondance & Report Writing, Tata McGraw Hill

I YEAR

PAPER VI – OPERATIONS RESEARCH

Objective

The course is intended to guide students to understand the various OR techniques applicable to hospitals which helps to improve the effectiveness and efficiency of hospital services.

Contents

Introduction to OR – Concepts in statistical analysis – Forecasting techniques.

Applications – Need of OR in the field of health – Areas of application – Materials Management – Patient scheduling – Patient waiting – Equipment replacement – Resource allocation.

The methodology of quantitative approach – Determining the nature of the problem – Classification of problem – Formulation of mathematical model – Solution – implementation.

Decision theory – Decision making under conditions of uncertaintly – Conditions of risk – The value of perfect information – Decision making under conditions of certaintly.

Linear programming – Graphical method – Simplex methods –artificial method- Duality application in administration

Transportation – Assignment – Models and problems. Routing problems – Application in administration.

Inventory Control – Deterministic model- probabilistic model- ABC analysis.

Sequencing – Sequencing of n job and 2 machines – n jobs and 3 machines – n jobs and m machines.

Network models – PERT – CPM – Analyzing the PERT network – Critical path method – CPM analysis – Cost analysis.

Replacement theory – Replacement of items that deteriorates – replacement of items that fail completely – Group replacement.

Waiting line models – Structure of waiting line system – Single server Poisson queuing models – Two server Poisson queuing models – Infinite capacity.

Simulation – Formulation – Running and performance appraisal simulation models – Simple problems in inventory – Replacement problem. Games and strategies.

Reference

Israel Brosh: Quantitative Techniques for Managerial Decision Making., Prentice Hall Co., Dharani Venkatakrishnan S. Operations Research., Keerthi Publishing House., Coimbatore Kenneth S. Brown Jack B. Revelle: Quantitative Methods for Managerial decisions Addisons. Srivasthava. U.K. Shenoy G. V, Sharma S.C: Quantitative Techniques for Managerial Decisions. Handy A Taha: Operations research, Sultan Chand & Sons.

Sharma S.D: Operations Research for Management Decisions, Kedar Nath Ram Nath & Co Sharma J.K: Operations Research theory & applications Macmillan

I YEAR

PAPER VII - BASIC MEDICAL SCIENCES & EPIDEMIOLOGY

Objectives

Basic Medical Science

The course enables the students to perceive the biological structure and basis of human biology and pathogens and to understand the spectrum of health and disease to evolve health promotion strategies in health system management.

Epidemiology

To apply the tools of epidemiology for the prevention of disease, the promotion of health and formation of national policies of social relevance. To use epidemiological research to detect association between modifiable, hereditary, social and Environmental factors and specific disease prevention.

Contents

Basic Medical Science

Introduction to biological sciences – living and nonliving – evolution of life – plants and animals – position of man in animal kingdom

Concept of basic human biology – anatomical position – medical – lateral – superior – inferior – physiological and biochemical normalcy and variations – name of tests and methods – nutrition – metabolism – anabolism – catabolism – ageing – cells – tissues – organ system – degeneration. Fundamentals of genetics – genes – chromosomes – heredity – chromosomal disorders – congenital diseases.

Introduction to Anatomy – Terms used in Anatomy – General Histology- Cell Structure – Cell division.- Overview of various human systems – Anatomical & Physiological perspective – musculoskeletal system – thorax and abdomen – respiratory system – nervous system – gastro intestinal system – urogenital system – nervous system – cardiovascular system – lymphatic system – endocrine system.

Introduction to microbiology – history – definitions – classification of microbes – parasites – vectors – disease causes and transmission.

Common pathogenic bacteria – viruses – fungi – parasites – protozoa – helminthes.

Entomology – Vector of malaria – filaria – plague – rodents

Sterilization – methods – applications – home – hospital – community. Bacteriology of water – milk – food – pasteurization – chlorination – water sanitation.

Practical and assignments

Display of anatomical systems and identification: Microscopic slide demonstration

Demonstration of laboratory investigation procedure and preparation of report. Visit to a major hospital, primary health centre and institutions of health importance.

Epidemiology

The scope and uses of health research, especially epidemiological research and its evolution to modern concepts and areas of application.

Fundamental measures of disease frequency (prevalence, cumulative incidence, incidence density) and of risk factors – disease association (risk, relative risk, attributable risk, odds ratio) Applied measures of disease frequency.

Guidelines for the development of a well conceived research question

Overview and detailed aspects of the most relevant types of epidemiological study design: ecological design, cross sectional design, case control design, prospective and retrospective cohort design, experimental design. Similarities and dissimilarities between epidemiological research and social science research types.

Core principles of health measurement and diagnosis (validity, reliability, sensitivity to change, feasibility). Development of Health measurement scales. Principles and applications of screening for disease.

Source of bias in the interpretation of etiological, prognostic and diagnostic research

Epidemiology of Communicable disease: Classification of communicable diseases – agents – vectors – disinfection – surveillance – investigation – containment – control – eradication.

Respiratory infections – chicken pox-measles – rubella – influenza – mumps – diphtheria – whooping cough – meningitis – tuberculosis

Intestinal infections – polio mellitus – viral hepatitis – cholera – acute diarrhea disease – typhoid fever – food poisoning – amoebiasis – ascariasis – hookworm – helminthic malaria – yellow fever – filaria – dracontiasis – dengue - encephalitis

Zoonosis – Rabies – Japanese Encephalitis –KFD – Brucellosis – Plague – Human Salmonellosis – Teaniasis – Hydatid Disease – Leishmaniasis – Leptospirosis – Rickettiosis – Scurb Typhus – Murine Typhus – Tick Typhus

Surface Infections: Trachoma - Tetanus - Leprosy - STD - Yaws - Scabies - Ebola - HIV/AIDS.

Epidemiology of Non communicable disease and conditions

Risk Factors – gap in natural history

Coronary heart diseases – Hypertension – stroke – rheumatic heart disease – cancer – diabetics –

obesity - Blindness - Accidents - Peptic Ulcer - Arthritis

Nutrition – Nutrition intervention for health promotion

Lifestyle diseases – Geriatrics – Mental health

References

Anatomy and Physiology for Nurses, - Physiolgoy: K. Madhavan Kutty

Microbiology: Ananthanarayan, - Parasitology: Chatterjee

Entomology: Roy and Brown

Park L: Text book of preventive & Social Medicine: M/s Banarasidas. Jabalpur

Robert L. Heatal: Principles of Epidemiology – A self teaching guide. Academic Press London

Morris J.N. Uses of Epidemiology, Churchill. Livingstone London

Benean SMAS: Control of communicable disease to man American PH Association, New York

Holland W.W., Detels R, Oxford Text Book of Public Health: Method of Public Health. London

Kelsey J.L: Methods of Observational Research, Oxford University Press, London

Abeline T. Measurement in Health Promotion & Protection, WHO Regional Publications

Karis S. Lankimen et al; Health and Disease in Developing Countries, Macmillan press. London

II YEAR

PAPER I – HOSPITAL ADMINISTRATION -II

Objectives

To give an idea about hospital, its role in healthcare delivery system, the changing requirements of health services vis-a vis hospital design, planning and operational aspects of Hospital organization. It will also throw knowledge on modern trends in hospital administration.

The course is also intended to provide an in-depth knowledge about hospital information system

Contents

Modern Trends in Hospital Administration

Medical Tourism

Hospital Accreditation NABH JCAHO and JCI - ISO certification,

Telemedicine

Artificial Intelligence

Disaster management in hospitals – Component of disaster plan – Pre hospital and hospital – Disaster preparedness – Disaster plan formulation and implementation

Patient safety – Measures in assuring patient Safety – Factors affecting patients safety –

New developments in the field of Hospital Administration.

Hospital Administration

Planning and Management of

- 1. Inpatients Department
- 2. Wards
- 3. ICUS- General and specific nuclear Medicine
- 4. Physical Medicine
- 5. Nephrology services
- 6. Transplantation Unit
- 7. Out patient Department
- 8. Operating department
- 9. General Medicine
- 10. Cardiology
- 11. Oncology
- 12. Urology
- 13. Radiology
- 14. Psychiatry
- 15. Surgical services
- 16. Pediatric services
- 17. Casualty and emergency services

- 18. Anesthesia services
- 19. Obstetric and gynecology services
- 20. Nursing Administration- Nursing organization- Staffing -Practices
- 21. Hospital establishment and offices
- 22. Business department General Administration- Personnel- Finance-Marketing Materials maintenance- Quality services.
- 23. Case studies

Hospital Information System

HIS and decision making – Information report system and Decision support system- Role of HIS in Decision making.

Information system Development – System Analyzing and Design- Planning of information systems – Strategic, tactics and operational planning.

Implementing Information systems – Data base management

Controlling Information systems – Input, Process, Output, Process, Process and physical facility Control – Privacy and security of systems.- Analyzing Information systems – Hospital Information system – Functions – Clinical Decision support systems – Diagnostic Decision support systems- Hospital marketing Information systems – Human Resource information system – Accounting information systems – Financial information system.

Managing information system, Resource in Hospitals.

Basic concepts about computer hardware and software – Application of computer in hospitals – computer programme and operating systems – data based concepts (ER diagram) - Microsoft Office – SQL, VB, Power Point - ERP system with all modules

Office automation software – MS Office – MS Word – Spread Sheet software- MS Excel. Data base management software MS Access

Computer network and internet.

References

Kunders, G D (2004) – Facilities Planning and Arrangement in Healthcare, Prism Books Pvt Ltd, bangalore.

Davies Llewellyn R & Macaulay H M C (1995) – Hospital Planning and Administration, Jaypee Brothers, New Delhi.

Sakharkar B M (198) - Principles of Hospital Administration & Planning – Jaypee Publishers New Delhi.

James A O'Brien - Management Information Systems Galgotia Publishers.

Bakkar A. R. & Mol. J.L.: Hospital Information System – Effective Health Care Vol. 1. Amsterdam.

Davis G B & H Margrethe: Management Information System (Conceptual Foundations, Structure & Development), Tata McGraw Hill

Griesser G. Et al Data Protection in Health Information System – Considerations and Guidelines.

Goyal D.P: Management Inforantion System, McGraw Hill

Murdick G Robert, Ross E Joel Ross & Clagget R James: Information Systems for Modern Management

Jawadekar S Waman: Management Inforamtion System managerial perspectives, Macmillan

II YEAR

PAPER II - HOSPITAL ECONOMICS & FINANCE

Objectives

Hospital Economics

The course is intended to provide an in-depth knowledge about the sources of funds and its effective utilization to achieve a better quality of health care services within a reasonable cost.

Finance

The course is intended to help the students to acquaint themselves with the basic concepts of financial planning and control and its applications in the financial decision making.

Contents

Hospital Economics

Managerial economics – introduction – scope – relevance – hospital resource issues

Demand Analysis – demand forecasting – purpose – methods – criteria for a good forecasting method – consumer durable goods – capital goods – determinants of market demand – law of demand – demand curve.

Concept of resource allocation – cost analysis – concepts – classification – short run – long run cost functions.

Economices of size – economices and diseconomices of scale – input output analysis – capital budgeting – principles – monitory and fiscal policies – pay back period methods – NPV – IRR – risk, uncertainty and investment decisions – risk adjusted discount rate approach.

Public sector – role of national economy – Government's role in different socio – economic system. Budgets – central – state government – structure – five year plans.

Market structure – pricing policy – pricing under perfect competition – under pure monopoly.

Economic fluctuations and business – business cycle – business policy – inflation – deflation with reference to India – economic forecasting for business

International trade – rate of foreign exchange – spot and forward exchange markets – change in exchange rates – international monetary system – IMF – SDR – Case studies.

Finance

Financial Management – Concepts – Objectives – Scope – Functions.

Time value of money – Time preference rate – Compound value – Present value.

Forecasting of income statement – Fund flow – Cash flow statement – Interpretation and usage for future forecasts.

Working capital management – Concepts – Types – Factors affecting the determination of working capital – Theories of working capital.

Cash Management – Objectives – Minimum cash requirement – Different approaches for decision making – Formation of strategies.

Current asset management – Management of accounts receivable – Credit standards and policies – Evaluating the policy – Influence of inventory cost on current asset management – Stock valuation methods under inflation accounting and its effects.

Leverage – Financial – Operating – Applicability in decision making – Indifference point.

EBIT – EPS analysis for different sources of finance. Long and short term decisions on alternatives.

Capital budgeting – Principles – Data requirement – Methods of investment analysis – Payback period – NPV –IRR- Discounted cash flow – Risk and return decisions – Profitability index.

Theories of capital structure – NI – NOI – MM approach – Cost of Capital – Determination of cost of individual source of finance – Procedure to find out capital structure of a firm.

Dividend: Dividend - Types of dividends - Gordon - alter - MM models - Determinants of dividend policy.

Cost and Analysis – Cost benefit analysis – Cost effectiveness analysis – Ratio analysis – Types – Uses.

Value and rate of return calculations – Valuation of firm and shares – Different methods of determination of value of shares – Value of firm – Registration of firm in stock exchanges – Stock exchanges working procedure.

Reference

Even J. Douglas: Managerial Economics – Theory, Practice and Problems., Prentice Hall India.

Dufty N.F: Managerial Economics – Wesley Publishing House., New York

Stills E. Addison: Managerial Economics., Homewood, Illionois, Dersey Press Inc.

Spencer M.H: Managerial Economics, Homewood Illionois, Richard C. Irwin Inc.

Verma J.C: Managerial Economics – Concepts and Analysis for Business Decisions in Indian Environment, Lawrence Publishing House., New Delhi.

Varshey R.L & Maheswari K.L: Managerial Economics., Sultan Chand & Sons Publishers.

Thomas P.C: Managerial Economics.

Salratore Dominick: Managerial Economics in Global Economy, Thomson

Dean Joel: Managerial Economics, Prentice – Hall India, Eastern Economy Edition

Dwivedi D.N: Managerial Economics, Vikas

Khan M.Y. & Jain PK: Financial Management, Tata Mc Grew Hill Publishing Co.,

Kuchhal S.K.: Financial Management, Cheritarry Publishing House., Allahabad

Maheswari S.N.: Principles of Financial Management. Sulthan Chand & Sons., New Delhi

Pandey IM: Financial Management, Vikas Publishing House Pvt.Ltd., Bombay

Prasanna Chandra: Financial Management, Tata Mc Grew Hill., New Delhi.

John Thampton: Financial Decision Making - Concepts, problems & cases., Prentice Hall Co

II YEAR

PAPER III – MANAGEMENT ACCOUNTING & COST ACCOUNTANCY

Objective

Management Accounting

The topic helps the students to acquaint themselves with the basic concepts of cost and management accounting and the practical applications in decision making, supervision, management and control of a health system.

Cost Accountancy

To familiarize the students with the concepts, principles and techniques of financial, cost and management accounting branches and their application in managerial decision making in hospitals.

Contents

Management Accounting

Book Keeping – Definition – objects – advantages –term used in Book keeping – Business transactions – theory of Double Entry –kinds and transactions – process of recording –types of accounts – preparation of journal – preparation of Ledger – Trial Balance

Accounting principles: Accounting Concepts an Conventions

Financial Statement - Trading Account Profit and Loss Account and Balance Sheet

Trading Account: Meaning need and preparation – Profit and Loss Account – Meaning, need and preparation balance Sheet – Meaning need and preparation use of further adjustments in the preparation of final accounts:-

- Depreciation
- Provision for Doubtful Debts
- Outstanding Expenses
- Prepaid expenses
- Income received in Advance
- Accrued Income
- Closing Stock

- Provision for discount on debtors and creditors
- Petty Cash Book

Meaning – Advantages – Imprest system – Analytical petty cash book – form and preparation

Bank reconciliation statement - Meaning - Need - Preparation - Simple exercises

Depreciation - Meaning – Objects – methods (theory and problems)

Ratio Analysis

Financial Analysis - Meaning and Significance of ratios - Gross Profit, Net Profit, ROI,

Current ratio, quick ratio, debt equity, capital turnover, stock turn over ratios.

Accounts of Non- trading Concerns

Meaning – receipts and Payments Account – Income and Expenditure Account – Balance sheet – reparation of Income and Expenditure account and balance sheet from receipts and payment account and additional information

Case studies / Practices / Assignments

Cost Accountancy

Cost accounting-definition of cost – costing accounting – objectives – advantages – characteristic of ideal costing system.

Elements of cost – concepts – classification of cost – direct material – direct labour – overheads.

Direct material – material control – objectives – purchasing – storing – issuing methods – Inventory control- Break even analysis – techniques – applications- ABC – VED analysis – EOQ – Lead time – Safety stock – Quantity control over supplies – Just in time – Inventory models – Scientific technique – FIFO –LIFO – Average Cost.

Direct labour – remuneration of lobour – time ratio system – piece rate system – premium bonus plans – measuring layout accounting performance – cost – idle time – overtime – holiday pay – labour turnover – calculation of gross wages and net wages .

Overhead – Clssification – Allocation – Apportionment of overhead – Basis of apportionment

Cost of service department – Cost of Production department – Absorption of overhead – actual Pre-determined – Blanket rate – Multiple rate – Absorption of manufacturing overhead – Direct material – Direct labour – Production cost – Contract costing – Process costing (normal and abnormal wastages) – Marginal costing.

Also control methods – Budgetary control (theory only) – Standard costing (simple illustration) - Case studies / practical / assignments

References

M.C. Shukla and T.S. Grewal Advanced Accounts; S. Chand & Co. Ltd., New delhi,

R.L. Gupta: Final Accounts

Gupta R.L & Radhaswamy M: Advanced Accountancy(Theory, Method & Application), Sultan Chand & Sons

S.P. Jain & K.L. Narang: Cost Accounting – Principles & Practice, Kalayani Publishers

Bhattacharya S.K.: Accounting for Management., Vikas Publishing House Pvt. Ltd., Bombay

Robert J. Thierauf & Robert Ckeikanp: Decision making through operations research.

Eck. R.D. introduction to Quantitative methods for business applications.

M.C. Shukla and T.S. Grewal & M.P Gupta Cost Accounting (Test & Problems); S. Chand & Co. Ltd., New delhi,

Jain S.P & Narang K.L: Advanced Accountancy _ VI

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II YEAR

PAPER IV – MATERIALS MANAGEMENT & TOTAL QUALITY MANAGEMENT

Objectives

Materials Management

The course is intended to provide an in-depth knowledge about the scientific methods of purchasing, storing and dispensing of materials in hospitals.

Total Quality Management

The course will orient the student about the quality to be maintained in hospital services and will help them to develop and control hospital programmes.

Contents

Materials Management

Materials Management – concepts – importance in organization – relation to other administrative functions – organization of materials management department – role and functions of materials managers.

Stores – Concepts of stores – Importance of stores in hospital settings – Types of stores in a hospital – Layout – Location – Stores routine – Supply and replacement of stock – Card system & use of bin cards – Stock verification – Control of pilferage.

 $Inventory\ control-Meaning-Scope-Definition\ of\ inventory-Advantages-Discounts-Stock$ $out\ cost-P\ \&\ Q\ System.$

Purchase – Right quantity – Right quality – Right price – Right time (requirement planning) – Right source – Price forecasting methods.

Methods of purchasing -ABC - VED analysis in purchase controls - Purchase through rate contract - Tendering procedures - Purchase Vs leasing decision - Purchase of capital equipments and other major investments.

International purchasing -Import tariffs – Policies – Procedures – Customs and excise exemptions – Letter of Credit formalities relating to imports.

Information system development for Materials Management – Database of material (Vendor and stocks) – Usage for classification – Standardization of materials – Bar codes – Trends in material control – Computers role in development of information.

Legal aspects relating to purchases – carriage of Goods Act – Insurance – Damages Case Studies.

Total Quality Management

Quality – Service Quality – Quality and productivity – Quality costs in service organizations.

Quality management philosophies – Contributions of Deming, Jurran and Crosly.

Planning for quality – Creating quality culture – patient centered quality – Training for quality.

Quality management in Hospital Department – Front office, OPD, Casualty, Laboratory, OT, ICU, MRD, Dietary, Laundry, House keeping, CSSD, IP and Nursing.

Patient safety management - Hospital acquired infection control - equipment maintenance-

Assessing quality – Patient satisfaction survey – medical audit, Clinical audit- Nursing audit – Accreditation and ISO.

TQM –team work – Employee involvement – Key result areas – Leadership.

TQM tools – Quality function Deployment (QFD) – Concurrent Engineering – FMEA – Demings P-C- D- A- Cycle – JIT – Kaizan – Zero defect programme.

Statistical tools in TQM – Flow diagram – Pareto Analysis – Cause and effect diagram – Control charts.

Bench marking – Business Process Reengineering – Six sigma.

Reference

Dutta A.K. Integrated Materials Management., S.Chand & Co. New Delhi 1989.

Dutta A.K. Materials Management Procedures, Text & Cases, Prentice Hall India

Starr & Miller: Inventory Control – Theory & Practice, Prentice Hall India.

Gopalakrishnan, P & Sandila M.S. Stores Management and Logistics.

Gopalakrishna P: Purchase & Materials Management, McGraw Hill

England W.B. & Leenders M.R. Purchasing & Materials Management Tarapore Vala & Sons.

Lal A.B.:Inventory Models and the problems of price fluctuations, sree Publishing ook House.

Peekhar H.H: Effective materials Management Taraporewala D.B & co. Bombay.

S.K. Joshi – Quality Management in Hospitals Jaypee Brothers.

James R. Evans & William M. Lindsay: The Management and Control of Quality; Jaico Publishing House, Bombay.

Kunders, G D (2002) – Designing for Total Quality in Healthcare, Prism BooksPvt Ltd, Bangalore

M. Frank, Gryna Richard C.H, Defeo A Joseph; Jurans Quality Planning & Analysis for Enterprise Qulaity

II YEAR

PAPER V – MARKETING & STRATEGIC MANAGEMENT

Objectives

Marketing Management

The course introduces the student to the concepts of marketing and its dimensions involving services, production, promotion and its application to health care delivery systems.

Strategic Management

The course enables the students to understand the different ways to utilize firm's resources within its environment to reach its objective.

Contents

Marketing Management

Marketing Concept – definition – Scope. Hospital Administrators and Marketing Environment – Opportunities and challenges.

Market analysis – Health care needs – factors influencing patient behaviour – Market segmentation – Chief determining variables – Targeting and product positioning for health care services.

Market research and information: Steps – Market information – Market decision support systems – Demand forecasting – Public policy regulation and ethical marketing practices.

Product/Service: Product line – Product mix – Product life cycle – Branding – Packaging – Product positioning – New product opportunities – Product development process – New product – Failure and success.

Promotion: Objectives – Promotion cost – Promotional budget – Determining promotional mix – Planning promotional campaigns.

Advertising and publicity: Types – Levels of advertising – Advertising expenditure – Advertising decisions – Publicity.

Pricing – Meaning – Importance – factors determining prices – Objectives – Pricing policy and structure – Pricing procedure – New product pricing

Market information system – Marketing channel – Physical distribution – Channel design – Retailing – Wholesaling.

Marketing programme: Market mix – Product decisions – Price decisions – Location of hospital services – Planning extension services.

Project planning – Project development cycle- Feasibility study – Financial institutions - Project clearance – Technology transfer – Foreign collaboration – grants – Social responsibility.

Camp organizing and planning: Community health care programmes – Medical camps – Awareness of the camps – Planning and organizing medical camps – Follow – up.

Strategic Management

Environmental appraisal: External environmental analysis – Dynamics of internal environment – Organizational capability factors – SWOT analysis.

Strategic alternatives – Grand strategies – Modernization – Diversification and integration – Merger, take over and joint ventures – Turn around, disinvestment and liquidation.

Strategic choice: Corporate port folio analysis – Industry competitor analysis.

Strategic implementation : Issue in implementation – Resource allocation – Structural implementation – Organizational design and change.

Functional implementation – Financial, marketing, operations and personnel plans and policies.

Behavioural implementation – Leadership implementation – use of power.

Strategy evaluation – Strategic and operational control.

Reference

Kotler Philip: Marketing Management – Analysis, Planning, Implementation and Control;

Kotler Philip & Anderson: Strategic Management for Non – profit organizations.

Wheelen L Thomas, Hunger David, Rangarajan Krish: Concepts in Strategic Management & Business Policy

Kotler Philip: Readings in Marketing Management, Tata Mc graw Hill, New delhi, 1980.

Kotler Philip: Marketing for Health Care Organizations.

Kotler Philip & Lane Kevin: Marketing Management, Pearson

Lovelock : Services Marketing – text, cases and reading.

Kotler Philip: Principles of Marketing, Prentice Hall, Eaglewood, Cliffs, NJ, 1980.

Janet Reinestein Carpman., Myrona Gromt., Planning health facilities for patients and visitors.

Chari S.N.: Modern production and operations management, Wilsey Eastern Ltd.New Delhi.

Prasanna Chandra: Projects preparation, Appraisal, Budgeting and implementation, Tata Mac Grew HillsPublishing Co. Ltd., New Delhi

Azhar Kasmi: Business Policy.

II YEAR

PAPER VI – LEGAL FRAME WORK FOR HOSPITALS & MEDICAL ETHICS

Objective

Legal frame work for hospitals

The course will orient the students about the legal frame work to be observed in hospital services and will help them to develop and control hospital programme. It will also help to provide a through knowledge and familiarity on the importance medical ethics.

Contents

Legal frame work for hospitals

- Medico-legal problems: types case handling procedures police investigation death certificates.
- II. Medical negligence: Ambit of negligence Duty of care Contractual duty –
 Tortious duty Duty under Penal law Duty under consumer law Contributory negligence Consent to treatment Types of consent Types of common complaints Burden of proof & 'Res Ipsa Loquitor'.
- III. Medical ethics introduction person centered ethics ethics and ethical codes international code of medical ethics code of medical council of India services of life and death duty of preserving life medical experimentation in man truth and professional secrecy.
- IV. Health Related laws: Medical termination of Pregnancy Act Birth and Death registration Act Drugs and Cosmetics Act 1940– Kerala shops and Commercial Establishments Act 1969 Prenatal Diagnostic Techniques (Regulation and Prevention of Misuse) Act 1994 The Indian Medical Council Act 1956 The Indian Nursing Council Act 1947 The Transplantation of Human Organs Act 1994 Consumer Protection Act 1986 The Pharmacy Act 1948 The Environment Protection Act 1986 & Bio-medical Waste (Management and Handling Rules 1998)
- V. Labour welfare laws: Bonus Act 1965 Employees Provident Fund Act 1952 Employees State Insurance Act 1948 Factories Act 1948 Gratuity Act 1972 Industrial Dispute Act 1947 Minimum Wages Act 1948 Trade Union Act 1926 Maternity benefit Act 1961.

References

Kuchhal M C (2001) – Business Laws, Vikas PublishingHouse Pvt Ltd, Delhi

Goswani V G (1999) – Labour & Industrial Laws, Central Law Agency, Allahabad.

Rajkumar – Acts applicable to hospitals in India

Knight Bernard – Legal Aspects of Medical practice.

Bag R.K – Law of Medical Negligence and compensation

Cox H.W.V- Medical Jurisprudence and Toxicology, The Law Book Co.(p) Ltd

WHO: Bioethics

WHO: Genetic, Ethics and Human Values

Prabhakara G.N: Professional Medical Ethics

Siegerist Heantry: A history of Medicine – Vol. 1. Oxford University Press., London

Jagg O.P. Indian System of Medicine, Atma Ram and Sons, New Delhi.

Morely avid et al: Practising Health for all, Oxford University Press., London

Abraham Samuel D: Laws on Hosapital Administration

Southwick Arthur F: Law of Hospital and Health Care Administration.

II YEAR

PAPER VII

Skill Development in Hospital Administration

Objective: This course helps the students with an opportunity to observe, apply & practice the theories & techniques they will learn as part of their MHA syllabus. This will act as an internship for the students, so that, through a set of programmes, they will be able to develop the skills necessary for an administrator in a hospital setting.

Pedagogical Approach:

In order to supplement & practice the theoretical knowledge gained through textbooks, & lectures, students will perform various tasks like "undergo practical training in various departments; organize seminars & workshosp; present papers & case studies; perform role plays, management games & extempore sessions; undergo concurrent placements & field studies; attend training programmes on Transactional Analysis and the like; etc".

Reports submitted by the students on practical training in various departments, concurrent placements & field studies etc will be evaluated by the faculty. All the programmes organized & performed by the students will be evaluated by the faculty.

As opportunity for development & training of skills is an important factor, these programmes will be there from first year onwards. The marks of all the programmes organized as part of skill development will be taken for the evaluation of this paper.

Programmes to be under taken:

1. A minimum of three hour visit to the following departments on rotation at the Hospital;

Personnel – Public Relations – Finance – Accounts – Ticket Room – Medical Records – Bio Medical – Radiology – CSSD – Corporate Relations – Insurance – Billing - Pharmacy – Canteen – Plumbing – Electrical – Civil – Laundry – Waste Management – ETP – Incinerator – Physiotherapy – Medical and Psychiatric Social Work – Counseling – Projects - EDP – Front Office – OPD – Library – ICUS – Wards – Security – Casualty – Laboratory – Microbiology – Bio Chemistry – Blood Bank – Haematology – Histopathology and Pathology.

- 2. Organizing Seminars
- 3. Presentation of papers, case studies etc

- 4. Group Discussions
- 5. Role play
- 6. Assignments
- 7. Management games
- 8. Workshops
- 9. Negotiations
- 10. Transactional Analysis
- 11. Field studies
- 12. Extempore Sessions