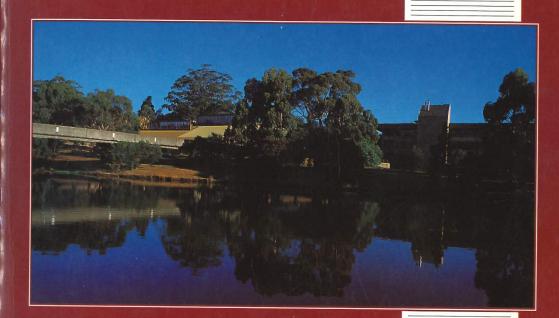
Federation F:

BALLARAT UNIVERSITY COLLEGE

Affiliated with

The University of Melbourne





HANDBOOK 1992

20 hours puterised mapping, cryptography. 20 hours

20 hours

20 hours

XL. 20 hours

20 hours

relations, generating functions, ror correcting codes.

20 hours tz and the variational approach. gramming and use of packages. 20 hours

ms, applications.

40 hours 20 hours

50 hours

ase management systems.

Aeasures of location, dispersion

theorem of arithmetic. Perfect,

inear equations. Existence and

rcular, exponential, logarithmic.

inequations.

ling ratio of lengths and areas sellations.

ve and associated probabilities. are test. Confidence intervals.

uations, e.g. exponential models ls of trajectories. Applications

t rule, chain rule. Application Simple integration. Application

s; isomorphism; cyclic and Klein

intour maps. Graphical solution

projections.
OF EQUATIONS Iterative solution of equations. UNIT OUTLINES

INTRODUCTION TO COMPUTERS

A first course in interactive computing. Elements of BASIC programming. 248

The four arithmetic processes. Conjugates. Modulus and Argument. Argand Plane. Polar form. Demoivre's Theorem. Multiple angles. The roots of a complex number. 340

Questionnaire design. Sources of bias. Sampling and non-sampling error. Sampling for proportions. Quota sampling, systematic sampling, stratified sampling.

HISTORY OF MATHEMATICS

341 342

A selection of topics from the history of Mathematics.

EXPERIMENTAL DESIGN Randomisation, paired experiments, randomised blocks, two way blocking, sources of non-sampling error, double blind trials. 2ⁿ factorial designs and the interpretation ADVANCED COMPUTING

343

Use of an advanced computer package such as SPSS or BMD. HARMONIC MODELS 344

Content: Time series. Investigations of acoustic vibrations using electronic equipment. The mathematics of musical sounds: Superposition of sinusoids.

The concept of Fourier analysis of recurrent phenomena.

The concept of Fourier analysis of recurrent phenomena.

Graphical investigations—formal evaluation of coefficients by integration is excluded.

Time-variant effects: envelopes, beats.

The concept of a transfer function: application to non-linear distortion.

Logarithmic scales for frequency and intensity.

Musical scales and chords; the mathematics of harmony and dissonance.

MATHEMATICAL MODELS

Models in elementary statistics and Correlation and Regression Linear parabolic Models in elementary statistics e.g. Correlation and Regression. Linear, parabolic, logarithmic, hyperbolic etc. up to 4th degree equations as applied to fitting data.

NB211 SOCIAL PSYCHOLOGY

Four hours per week—one semester

Prerequisite: NB111

Objectives: To develop awareness of the social psychological concepts, methods and research

Objectives: To develop awareness of the social psychological concepts, methods and research findings which impinge on the nursing process.

Content: Topics include verbal and nonverbal communication, perception of other people, attitudes and attitude change, group behaviour, social influence, satisfaction and motivation at work and the effect of the physical environment on behaviour. All topics are explored using lectures tutorials and experiments.

NB212 PSYCHOSOCIAL PROCESSES II

Total fifty-two hours—one semester

Prerequisites: NB101, NB112.
Objectives: To enable students to appreciate the interaction between psychosocial factors and health and the social constraints in health care, and to further develop their counselling

Content: Psychosocial influences on illness and illness management and the role of the medical and nursing professions; the impact of illness and hospitalization; approaches to counselling and interpersonal skill development.

NB311 PSYCHOSOCIAL PROCESSES III Eight hours per week five weeks

Prerequisite: NB212

Objectives: To enable students of nursing to apply theoretical concepts and learned skills in counselling and human management to their clinical experience.



Death, dying and bereavement; Crisis es; and Stress and stress management.

nponent to the clinical setting; develop the Nursing Process, to practice various oscience strands.

"People in Illness" and will concentrate enation/circulation, nutrition/elimination

mponent to the clinical setting: develop the Nursing Process, to practice various ioscience strands.

"People in Illness" and will concentrate obility, perception, regulation the genito-

K" STREAM-

People in Crisis", with the major emphasis re of a physical nature. d the opportunity to practice basic ward

'Z" STREAM-

People in Crisis", with the major emphasis care of a psychological nature. A five week tudents to the basics of psychiatric nursing. will also be included.

STRAND

5)

community and clinical education settings,

counters with clients/patients, their families an actual clinical situation.

UNIT OUTLINES

· carry out specified learning activities, under qualified supervision, to his/her level of preparation:

apply the problem-solving approach of the nursing process, document clearly and accurately the specific care given and evaluate the outcomes of these nursing interventions, modifying on-going care as necessary;

show evidence of the correlation of knowledge and skills from areas of Behavioural and Bioscience strands, in the provision of safe, humane, patient/client health care. demonstrate, after adequate supervised practice, mastery of specified clinical skills, within

a given time framework:

experience and come to terms with the stresses within the actual working environments, using principles and other knowledge gained in Behavioural Studies areas.

Clinical Education Strand Year 2 Year 2, Semester 1 Theme: "PEOPLE IN ILLNESS"-Clinical Education III Total 196 hrs NC201: 1 week x 4 hrs (Orientation) 12 weeks x 16 hrs/wk 192 196 hrs

Year 2 Semester 2 Theme: "PEOPLE IN ILLNESS"-II Clinical Education IV: NC202: 13 weeks x 16 hrs/wk Total 208 hrs 208 hrs

Clinical Education Strand: Year 3 Year 3, Semester 1-"X" Strand Theme: "CRITICAL CARE" Clinical Education V: Total 328 hrs NC301: 1 week x 16 hr/wk 16 13 weeks x 24 hr/wk 312

328 hrs Year 3, Semester 2-"Z" Strand Theme: "MENTAL HEALTH" Clinical Education VI: Total 352 hrs 200 hrs NC302: 5 weeks x 40 hrs/wk 2 weeks x 40 hrs/wk 80 hrs 3 weeks x 24 hrs/wk 72 hrs 352 hrs

NC401 CLINICAL PRACTICUUM

120 hours over three semesters. Distribution of these hours throughout each semester will vary according to the nature of the experience and the clinical agencies selected.

The purpose of this unit is to provide students with an opportunity to explore a selected area of community health practice. It enables them to gain knowledge and expertise in the chosen field of practice, thereby meeting individual learning needs and interests while satisfying the requirements of the unit.

This will be achieved by students developing, implementing and evaluating a learning contract designed to enable them to meet their identified learning needs while addressing the objectives of the unit.

Students will be assisted by lecturers and clinical advisors, in respective agencies, to whom they will be assigned. Students will be required to determine their focus of clinical study and propose an agency where the desired clinical experience can be obtained.

NC411 ADVANCED PSYCHIATRIC NURSING (I) (FIELDWORK)

60 hours in total

Unit Description: This unit will permit students to select an area of psychiatric nursing that will enhance their skills and knowledge. The student would be expected to utilize knowledge gained from the unit on Psychiatric Nursing Research to select an area of psychiatric nursing they wish to study in some depth. Students will be expected to negotiate with lecturers and health care agencies a placement related to a selected topic and produce a strategy for accomplishing the personalized objectives of the unit. The unit will be conducted emerging knowledge of the biological apprary knowledge of the biological aviour. The student will be provided nmune systems, endocrine systems, span of an individual and integrate evention of mental illness.

TERVENTIONS (I) TERVENTIONS (II)

with the opportunity of exploring a viously discussed that may be utilized ividual or group level.

I function to the study of commonly

f children and adults g pathophysiology, to the formulation

onmental pathology of the respiratory mmune system.

f adults athophysiology of the specific disease

specific nursing care plans.
I environmental pathology, of the em, genito-urinary system of the male al problems of surgical intervention.

nature of common medications.

UNIT OUTLINES

Understand the protocols for the safe administration of drugs.

Understand the related biological and psychological effects of certain life-styles on

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271

Introduction to pharmacology: broad classification, legal requirements agency protocols, role of pharmacist and nurse, rights of the individual and compliance.
 Outline common antibiotics, paediatric and neonatal drugs and immunization regimes.
 Outline of pharmacological intervention in treating problems of oxygenation, circulation, nutrition enteral and parenteral feeding and old age.

NS232 PHARMACOLOGY II

Year 2 Semester 2

2 hours per week x 7 weeks + 1 hour x 1 week—one semester

Prerequisites: NS231, NS201.

Prerequisites: NS231, NS201.
Objectives: As NS231.
Content: Outline of pharmacological intervention in treating problems of: mobility, neurology—eg. epilepsy, Parkensonism and migraine, hormonal balance and endocrine and neonlasia.

NS271 MEDICAL MICROBIOLOGY I

Year 2 Semester 1

3 hours per week x 3 weeks + 1 hour per week x 11 weeks

Prerequisites: NS102, NS121, NS122

Objectives: To help the student of nursing develop a deeper knowledge and understanding

1. potential and actual pathogens
2. the interaction between

the interaction between humankind and microbes

human defence mechanisms both specific and non-specific that form the adaptive response 4. measures to control microbial growth.

NS272 MEDICAL MICROBIOLOGY II

Year 2 Semester2

Prerequisites: NS271, NS201.
Content: Outline of common disease states and specific communicable diseases caused by pathogenic micro-organisms prevalent in the community and Health Care Agency settings. Areas addressed are diagnostic procedures, antimicrobial therapy, measures taken to reduce mortality and morbidity and the overall influence of infectious diseases on modern day

NS301 NEURO AND PSYCHOPATHOLOGY

2 hours per week x 15 weeks—one semester

Prerequisites: NS202.

Corequisites: NN302, NN303, NB311.

Objective: The student of nursing will understand both organic and non-organic disease processes which affect the individual's ability to interpret and adapt to their internal environment resulting in interruptions to activities of daily living.

Organic mental disorders—causes, clinical features and treatment—includes substance use disorders, ageing and psychopathology.
 Functional mental disorders—causes, clinical features and treatment.