



Estd. 1962
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With CGPA 3.52

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दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)
फैक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Science /
To,

No 00405

Date : 23 JUL 2021

The Principal,
All affiliated concerne Colleges / Institutions
Shivaji University, Kolhapur.

**Subject: Regarding minor changes in the structure of B.Voc.in Nursing.
Part-I Sem- II under the Faculty of Inter- Disciplinary Studies.**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University have accepted and granted approval to the minor change in the structure of B.Voc.in Nursing. Sem- II under the Faculty of Inter- Disciplinary Studies.

This minor change will be implemented from the academic year 2020-2021 onwards.

A soft copy containing the revised structure is attached herewith and it is also available on university website www.unishivaji.ac.in. (Students/Online Syllabus)

You are therefore, requested to bring this to the notice of students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	P.A. to Director Board of Evaluation and Examination	9	Centre for Distance Education
2	The Dean, Faculty of IDS	10	Computer Centre
3	The Chairman, Respective Board of Studies	11	Affiliation Section (U.G.)
4	B.A. Exam	12	Affiliation Section (P.G.)
5	Eligibility Section	13	P.G.Admission Section
6	O.E. I, II, III, IV Section	14	Appointment Section
7	Dy.registrar (On Exam)	15	P.G.Seminar Section
8	Dy.registrar (Pre. Exam)		

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part – I, Semester - II
Nursing
Paper – X: Business Communication-II
Total Workload: 06 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 02 lectures per week per batch of 20 students

Units Prescribed for Theory:

Marks:40

Unit- I: Group Discussion

Preparing for a Group Discussion Initiating a Discussion Eliciting Opinions, views etc.
Expressing Agreement /Disagreement Making Suggestions; Accepting and Declining
Suggestions Summingup.

Unit- II: Business Correspondence

Writing Memos, e-mails, complaints, inquiries, etc. Inviting Quotations Placing Orders, Tenders,
etc

Unit- III: English for Negotiation.

Business Negotiations Agenda for Negotiation Stages of Negotiation

Unit - IV: English for Marketing

Describing/Explaining a Product/Service Promotion of a Product Dealing/ bargaining with
Customers Marketing a Product/Service: Using Pamphlets, Hoardings, Advertisement, Public
Function/Festival

Practical: Based on the theory units Marks: 10

Reference Books:

- Herekar, Praksh. *Business Communication*. Pune: Mehta Publications, 2007.
- Herekar, Praksh. *Principals of Business Communication*. Pune: Mehta Publications, 200
- John, David. *Group Discussions*. New Delhi: Arihant Publications.
- Kumar, Varinder. *Business Communication*. New Delhi: Kalyani Publishers, 2000.
- Pardeshi, P.C. *Managerial Communication*. Pune: Nirali Prakashan, 2008.
- Pradhan, N. S. *Business Communication*. Mumbai: Himalaya Publishing House, 2005.

- Rai, Urmila & S. M. Rai. *Business Communication*. Mumbai: Himalaya Publishing House, 2007.
- Sethi, A. & B. Adhikari. *Business Communication*. New Delhi: Tata McGraw Hill.
- Sonie, Subhash C. *Mastering the Art of Effective Business Communication*. New Delhi: Student Aid Publication, 2008.
- Tickoo, Champa & Jaya Sasikumar. *Writing with a Purpose*. New York: OUP, 1979.
- Whitehead, Geoffrey & David H. Whitehead. *Business Correspondence*. Allahabad: Wheeler publishing 1996

Pattern of Question Paper

B.Voc. Part-I

Business Communication-II

Semester –II Paper-II

Time: 2 hours

Total Marks: 40

- | | |
|---|----|
| Q. 1 Fill in the blanks in the following Group Discussion.
(On Unit 5) (10 out of 12) | 10 |
| Q. 2 Attempt ANY ONE of the following (A or B):
(On Unit 6) | 10 |
| Q. 3 Fill in the blanks with appropriate responses:
(On Unit 7) | 10 |
| Q. 4 Attempt ANY ONE of the following (A or B):
(On Unit 8) (10 out of 12) | 10 |

Practical Evaluation:

Marks: 10

Oral and Presentation based on the units prescribed.

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part – I, Semester - II
Nursing
Paper – XI : Psychology-II
Total Workload: 06 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 02 lectures per week per batch of 20 students

Total Marks: 50 marks (Theory 40+Practical 10)

Objectives :

1. Understand the influence of personality of human behavior.
2. Appreciates developmental psychology.
3. understands the significance of mental hygiene and mental health.
4. Assist with psychological assessments and tests.
5. Participating in psychological assessment of patients

Unit I- Personality

1. Definitions, topography, types, theories
2. Psychometric assessments of personality
3. Alterations in personality
4. Applications

Unit II- Developmental Psychology

1. Psychology of people at different ages from infancy to old age
2. Psychology of vulnerable individuals-challenged, women, sick, etc.
3. Psychology of groups

Unit III- Mental Hygiene and Mental Health

1. Concept of mental hygiene and mental health
2. Characteristics of mentally healthy person
3. Warning signs of poor mental health
4. Promotive and preventive mental health - Strategies and services.
5. Ego defense mechanisms and implication

6. Personal and social adjustment

7. Guidance and counseling

8. Role of nurse

Unit IV- Psychological assessment & tests

1. Types, development, characteristics - Principles, Uses, Interpretations and

2. Role of nurse in psychological assessment

Practical based on above theory units

Marks 10

Reference Books

1. Bhattacharya B. D. & Craig M: Element of psychology and mental hygiene for Nurses, Chennai. Orient Longman.
2. Hurlock E: Development psychology: Tata McGraw Hill Book Co. Dodge Fernald and Peter S. Fernald, Introduction to Psychology, 5 editions, AITBS, 2004.
3. Jacob Anthikad, Psychology for Graduate Nurses, 3 editions, Jaypee, 2004.
4. Morgan C.T. & King, Introduction to Psychology, 7 editions, McGraw hill international.
5. Second course in psychology, Higher secondary std. XII K.T. Basantani, Sheth publishers Pvt. Ltd, 9th ed. 2005
6. Second course in Psychology, Higher secondary std. XI K.T. Basantani, Sheth publishers Pvt. Ltd, 8th ed. 2005
7. Hurlock E: Development psychology: Tata McGraw Hill Book Co.
8. Longman Pvt. Ltd 2. Dandekar, W.N. : Fundamentals of experimental psychology ; Kolhapur : MoghePrakashan

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part – I, Semester - II
Nursing
Paper – XII: Anatomy and Physiology- II
Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Total Marks: 50 marks

Objectives:

1. To acquire knowledge of the Cardio-vascular system
2. To students able to understand the Blood and Circulation system.
3. To understand the alteration in physiology disease and practice of nursing.

Unit I- Cardio-vascular system

1. Heart and per-cardium
2. Arterial system
3. Venous System

Unit II- Blood and Circulation

1. Blood components and Functions
2. Blood Groups
3. Haemopoiesis of Blood, Destruction of Blood cells, Jaundice
4. Cardiac Cycle
5. Pulmonary Circulation
6. Portal Circulation
7. Coronary Circulation

Unit III- Excretory and Reproductive System

a) Excretory System

1. Kidneys
2. Ureter
3. Urinary Bladder and Urethra

b) Reproductive System

1. Male Reproductive System
2. Female Reproductive System
3. Sterilization

Unit IV- Endocrine System and Nervous system sand Special Senses

a) Endocrine System:

1. Definition, Function and Site of Glands

b) Nervous system and Special Senses

1. Meninges and CSF
2. Brain and Spinal Cord
3. Motor Nervous System

Reference Books :

1. Waugh, Anne (2003), "Ross & Wilson's Anatomy & Physiology in health & illness" 10th ed., Churchill Livingstone.—
2. Anthony & Thibodcon (2000), "Anatomy & Physiology for nurses" 11th ed., C.V., Mosby Co., London.
3. Greig, Rhind, "Riddle's Anatomy & Physiology", 7th ed., Churchill Livingstone.
4. Singh, I. B. (2005), "Anatomy & Physiology for nurses", 1st ed., Jaypee.
5. Tortora, (2003), "Principles of Anatomy & Physiology," 10th ed., Wiley inter.
6. Chaurasia, B.D. (2004), "Human Anatomy", 4th ed., CBS publishers.
7. Sembulingam, 'Essentials of Medical Physiology,' 3rd Edition 2004 J.P. Publications.
8. T. Clenister and Jean Rosy (1974). "Anatomy and Physiology for Nurses" 2nd Edition, William Hernmarni Medical BK. Ltd.
9. Ganong. F. William, "Review of Medical Physiology", 15th Edition, Prentice Hall, International Inc., Appleton and Lange.
10. Guyton and Hall, "Textbook of Medical Physiology," 9th Edition, A Prism2. Indian Edn. Pvt. Ltd.

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part – I, Semester - II

Nursing

Paper – XIII: Biochemistry, Nutrition and Dietetics- II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Total Marks: 50 marks

Objectives:

- To enable students to :
- To calculate the quantity of dietary ingredient as per calorie requirement.
- To understand the importance of nutrition in health.
- To understand health disorders due to improper diet

Unit I- Carbohydrates.

Introduction, classification, chemistry, properties of carbohydrates and their tests.

Biological functions of carbohydrates. Storage of carbohydrates in the body, liver and muscles, carbohydrate metabolism- glycolysis, TCA cycle, glycogenesis, glycogenolysis. genetic disorder of carbohydrate metabolism. Blood glucose and its regulation, GTT, hyperglycemia, hypoglycemia and Glucosuria

Unit II- Lipids.

Lipid - Introduction, classification, chemistry, properties, their test, Biological functions.

Lipid metabolism- biosynthesis of fats, fatty acid oxidation. storage of fats in the body, blood lipid, ketone bodies. Clinical disorders related with lipid metabolism

Unit III- Vitamins and Minerals.

Vitamins -. Introduction , classification, Structure, sources and biochemical functions of fat soluble and water soluble vitamins, clinical disorders related to vitamin deficiency.

Minerals-Introduction. Major minerals, trace minerals , their biochemical functions. disorders related mineral deficiency and toxicity.

Unit IV- Miscellaneous.

Iron metabolisms. Formation and breakdown of hemoglobin. Water, electrolytes and acid balance. pH of Blood and its regulation. Role of buffers, lungs, kidneys. Liver function tests, their biochemical principles.

Reference Books:

- B. Srilakshmi: Dietetics, New Age International Publishers.
- B. Srilakshmi: Nutrition Science , New Age International Publishers
- B. Srilakshmi: Food Science , New Age International Publishers
- Dr.Jyotisingh ,Handbook of Nutrition & Dietetics ,Lotus press publishers .New delhi -02
- Dominic W.S.Wong, Mechanism and Theory in food chemistry ,CBS Publishers Pvt Ltd.
- Gopalan, C. etal : Nutritive value of Indian Foods, Indian Council of Medical Research
- Guyton. A.C. Hall, J.E. : Text Book of Medical Physiology – 9 Ed/ Prism Books (Pvt.) Ltd. Bangalore
- Norman N.Potter ,Joseph H.Hotchkiss ,:Food Science, Fifth edition ,CBS Publishers Pvt Ltd
- Swaminathan, M. : Essentials of Foods and Nutrition, Vols -I and II. Ganesh and Co. Madras.
- Sunetra Roday : Food Hygiene and sanitation with case studies ,Second edition ,McGraw Hill Education (India) Pvt Ltd .
- Shubhangi A. Joshi ,Nutrition& Dietetics ,fourth edition ,McGraw Hill Education (India) Pvt Ltd

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part – I, Semester - II

Nursing

Paper – XIV: Microbiology and Pathology- II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Total Marks: 50 marks

Objectives:

1. Understand how to control infection and develop Immunity of Human beings.
2. Understand Pathogenic organisms and special pathology
3. Apply the knowledge of clinical pathology in Nursing Practice.

Unit I- Infection control

• Infection: Sources, portals of entry and exit, transmission • Asepsis • Disinfection: Types and methods • Sterilization: Types and methods • Chemotherapy and antibiotics • Standard safety measures • Biomedical waste management • Role of nurse • Hospital acquired infection • Hospital infection control programme - Protocols, collection of samples, preparation of report and status of rate of infection in the unit/ hospital nurses accountability continuing education etc.

Unit II-Immunity

• Immunity- types, classification • Antigen and antibody reaction • Hypersensitivity- skin test • Serological test (Vaccines & sera-types and classification, storage and handling, cold chain)

Unit III- Clinical pathology

• Various blood and bone marrow test in assessment and monitoring of disease conditions. • Hemoglobin • RBC, White cells, & platelet counts • Bleeding time, clotting time, and prothrombin time • Blood grouping and cross matching

Unit IV- Clinical pathology

Blood chemistry • Blood culture • Serological and immunological test • Other blood test • Examination of bone marrow • Methods of collection of blood specimen for various clinical Pathology, biochemistry, microbiology tests. • Inference and normal values

Reference Books:

1. Microbiology by Pelczar, M.J.Jr., Chan E.C.S., Krieger, N.R. 5th edition, 1986 (McGraw Hills Publication)

2. Fundamentals of Microbiology by Frobisher, Hindsdill, Crabtree, Good Heart, W.B. Saunders Company, 7th edition
3. Medical Microbiology Vol.I and II by Cruick Shank R., Duguid J. P., Marmion B.P., Swain R.H.A., XIIth edition, Churchill Livingston , New York
4. General Microbiology by Stanier R.Y.V thedtion, McMilan, London
5. Medical Microbiology by N.C. Dey and T. K. Dey
6. Practical Microbiology 1st edition (2002) R.C. Dubey, D.K. Maheshwari, published by S. Chand and company Ltd
7. Laboratory manual of food Microbiology by Neelima Garg, K. L. Garg, K. G. Mukerji. published by LK International Publishing House (2017)
8. Medical laboratory technology Vol I and II, Kanai L Mukhergee, Swarajit Ghosh, Tata McGraw Hill Education Private Limited

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part – I, Semester - II

Nursing

Paper – XV: Lab Work and Practical- Anatomy and Physiology-II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch

Total Marks: 50 marks (Practicals 50)

- Objectives:**
1. Understanding the Cardio-Vascular Mechanism through practical.
 2. To Study importance of Blood Groups in Blood transfusion and Pregnancy's
 3. To know the importance of Family Planning.

Practicals:

Cardio-vascular System

1. Recording pulse
2. Blood Pressure Recording
3. Heart beats auscultation

Blood and Circulation

4. Haemogram
5. RBC
6. WBC
7. ESR
8. Peripheral smear
9. Clotting time
10. Bleeding time
11. Determination of Blood Groups, Standard and Rh. Grouping
12. Grouping and Cross Matching
13. Excretory System
14. Urine-Routine and Microscopic
15. Kidney Function Test
16. **Reproductive System-** .Different Contraceptive Devices

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part – I, Semester - II

Nursing

Paper – XVI: Lab Work and Practical- Biochemistry, Nutrition and Dietetics-II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch

Total Marks: 50 marks (Practicals 50)

Objectives:

1. Students able to Determine glucose in Serum.
2. Students will successfully conducting Creatinine clearance test.
3. To apply the knowledge of Biochemistry and Nutrition in Nursing Practice

Practicals:

- 1) Determination of glucose in serum
- 2) Determination and estimation of glucose and proteins in urine.
- 3) Test for bilirubin and urobilinogen in urine.
- 4) Creatinine clearance test.
- 5) Estimation of uric acid in urine and serum.

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part – I, Semester - II

Nursing

Paper – XVII: Lab Work and Practical- Microbiology and Pathology- II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch

Total Marks: 50 marks (Practicals 50)

Objectives:

1. Students able to Determine plate techniques
2. Students will understand the ability of bacteria enzyme.
3. To apply the knowledge of Microbiology and Pathology for nursing

Practicals:

Isolation of bacteria by streak plate technique, pour plate technique, Spread plate technique

a) To detect the ability of bacteria to produce amylase enzyme.

b) To detect the ability of bacteria to produce catalase enzyme.

To detect the ability of bacteria to produce caseinase enzyme

Direct Microscopic count of given bacterial suspension

Reference Books-

1. Stains and Staining procedures by Desai and Desai
2. Experimental Microbiology by Patel and Patel
3. Medical Microbiology by Cruickshank Vol.II
4. Bacteriological techniques by F.J. Baker
5. Experimental Microbiology by Rakesh Patel Vol. I and Vol. II

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part – I, Semester - II
Nursing
Paper –XVIII: Internship/ Project Work-First Aid- II

Total Marks: 50 marks (Practicals 50)

Internship in associated hospital for hands on training and Project work based on any one aspect / Problem related to syllabus.

Scheme of External Evaluation :-

a) Internship

Internship Report	15 Marks
Presentation and viva - Voce	10 Marks

b) Project Work

Project Report	15 Marks
Presentation and viva - Voce	10 Marks

c) Format of Internship Report

1. Introduction to Course and relevance of associated institutes
2. Objective of Internship
3. Schedule and Attendance of Internship
4. Detail Report on Hands on training regarding acquired skills
5. Conclusion

d) Project Design and Methodology

1. Introduction
2. Selection of Problem
3. Objectives
4. Statement of Problem / Project
5. Data Collection, Interpretation
6. Finding and Suggestions
7. Appendices, Bibliography

Note :

Guidelines for internship

1. Every candidate has to devote per day 2 (15 days) hours in associated hospital.
2. Candidate has to write daily report of work done, and should maintain the daily dairy.

3. Candidate has to follow all the rules of associated institute / hospitals.

Guidelines for Project

1. Every candidate will be given the mentor for the project, she has to prepare the project work. under his/ her supervision
2. All candidates must have to follow the **Project Design and Methodology** format.