

SEMESTER – V

UCBAP22– E-COMMERCE

Year: III Sem: V	Course Code: UCBAP22	Title of the Course: E-COMMERCE	Course Type: Theory	Course Category: Elective	H/W 3	Credits 3	Marks 100
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Course Objectives:

1. To understand key business concepts and strategies applicable to e-commerce
2. To acquire the knowledge of Business models
3. To study the electronic system for payment
4. To familiarise with the trends and growth of M-commerce in India
5. To gain deep knowledge on tally

Course Outcomes (CO)

The learners will be able to

1. Understand the basic concepts of e-commerce.
2. Apply the gained knowledge on purchasing through platforms
3. Gain knowledge about the benefits of e-payment
4. Apply the gained knowledge of mobile commerce in the day to day life.
5. Get well versed in tally and can become an accountant in any concern.

CO	PO					
	1	2	3	4	5	6
CO1	H	M	H	M	H	M
CO2	H	M	H	L	H	M
CO3	M	M	H	M	H	M
CO4	L	M	M	L	M	L
CO5	L	M	M	L	M	L

H- High (3), M- Moderate (2), L- Low (1)

CO	PSO					
	1	2	3	4	5	6
CO1	M	M	H	M	H	M
CO2	H	M	H	L	M	H
CO3	M	H	H	H	H	M
CO4	L	M	M	L	M	H
CO5	L	M	M	L	M	L

H- High (3), M- Moderate (2), L- Low (1)

Course Syllabus

Unit I: Introduction to Electronic Commerce and E Procurement system (15 Hours)

- 1.1 Meaning and Definition of E- commerce- Perspectives of Electronic Commerce
- 1.2 E- Commerce, E- Business and E- Transaction
- 1.3 Drivers of E-commerce
- 1.4 Myths about E-Commerce
- 1.5 Advantages and limitations of e-commerce.
- 1.6 E Procurement system – Definition – E Procurement Process – Benefits and Challenges

Unit II: Inter-Organizational Transactions and Business Models (15 Hours)

- 2.1 Introduction - Inter-organisational transactions
- 2.2 Trade cycle and credit transactions
- 2.3 Various kinds of transactions -Electronic markets
- 2.4 E commerce Business Models – Amazon, India Mart, Social commerce (Microsoft)
- 2.5 ONDC Platform (Open Network for Digital commerce)
- 2.6. GEM portal (Government E Market Place)

Unit III: E-Payment (15 Hours)

- 3.1 E-Payment - Benefits of Electronic payment- Components of electronic systems
- 3.2 Electronic fund transfer - Crptocurrency
- 3.3 Credit card system on the internet - Components of Online credit processing
- 3.4 Players in the credit card system -Popular Electronic Payment Methods
- 3.5 Security schemes in Electronic Payment System
- 3.6 Online transaction protocols

Unit IV: Mobile commerce (15 Hours)

- 4.1 Introduction- factors that drive M-Commerce
- 4.2 Difference between E-Commerce and M-Commerce
- 4.3 Growth of M-Commerce in India
- 4.4 Advantages- Technology behind M-Commerce
- 4.5 Applications- Types of mobile payment
- 4.6 Future of mobile commerce.

Unit V: Introduction to Tally, Accounting and Inventory an Outline (15 Hours)

- 5.1 Fundamentals of Accounting- Accounting terms Definition- Ledger and ledger accounts
- 5.2 Trial balance- Trading and Profit & Loss accounts- Balance sheet
- 5.3 Accounting Masters Creation: Accounts information - Groups (Create, Display, Delete)
- 5.4 Ledgers (Create, Display, Alter)
- 5.5 Stock Group- Entering Vouchers: Voucher types- How to enter vouchers - Different types of Accounting voucher- (Payment Bar Receipt, Journal, Sales and Purchase)
- 5.6 Reports in Tally: Display Balance Sheet- Profit and Loss Account- Display Trial Balance.

Text Books:

1. T.N. Chhabra, R.K. Suri and Sanjiv Verma – E-Commerce New Vistas for Business, Dhanpat Rai & Co, Latest Edition.
2. Ravi Kalakota, Andrew B Whinston – Frontiers of Electronic Commerce, Pearson, 2011.

Reference Books:

1. Dr. K. Abirami Devi, Dr. M. Alagammai-E-Commerce, Margham Publications 2016.
2. Puja Walia Mann, Nidhi -E-Commerce, MJP Publishers, 2011.
3. Diwan, Prag and Sunil Sharma - E-Commerce - Managers guide to E-Business
4. Garry P Schneider and James T Perry – Electronic Commerce, Course technology, Thomson Learning, 2000

Web Resources

- https://www.tutorialspoint.com/e_commerce/e_commerce_tutorial.pdf
<https://www.techtarget.com/searchcio/definition/e-business>

Department of Psychology (UG)

SYLLABUS AND REGULATIONS

Under

OUTCOME BASED EDUCATION

2020

(Effective for the Batch of Students Admitted from 2020-2021)



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd Cycle)

Gandhi Nagar, Vellore-632 006

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Department of Psychology (UG)

OUTCOME BASED EDUCATION - 2020

(Effective for the Batch of Students Admitted from 2020-2021)

A) INSTITUTION LEVEL

Vision:

The vision of the college is the education of young women especially the poorest to become empowered and efficient leaders of integrity for the society.

Mission:

To impart higher education to the economically weak, socially backward and needy students of Vellore and neighbouring districts.

B) NAME OF THE PROGRAMME: B.Sc. Psychology

Vision:

The course intends to enable students in developing skills and competencies needed for meeting the challenges and needs of the real world effectively and prepare them to be lifelong learners who will be socially responsible to navigate the complexities of a rapidly changing society.

C) ELIGIBILITY CRITERIA OF THE PROGRAMME

A candidate who has qualified in Higher Secondary Examination conducted by Government of Tamil Nadu or an examination accepted as equivalent thereto by the Syndicate, preferably with Biology as one of the subjects is eligible for seeking admission to the B.Sc. Psychology course

<u>Sem</u>	<u>Part</u>	<u>Paper Code</u>	<u>Title of the Paper</u>	<u>Hour s/ Wee k</u>	<u>Exam</u>		<u>Credits</u>	<u>Marks</u>
					<u>Th</u>	<u>Pr</u>		
V	III	UCPYI22	Abnormal Psychology - I	6	3	-	4	40+60
	III	UCPYJ22	Social Psychology - I	6	3	-	4	40+60
	III	UCPYK22	Introduction to Research Methodology	5	3	-	4	40+60
	III	UCPYL22	Practical I: Experimental Psychology I	6	-	3	4	
	III	UEPYA22	Elective: Guidance and Counselling Psychology	4	3	-	4	40+60

		UEPYB22	Elective: Positive Psychology					
	IV	USPYE522	SBE: Communicative skills	2	1	1	2	40+60
	IV	UVEDA15	Value Education	1	-	-	-	-
Total				30			22	600
VI	III	UCPYM22	Abnormal Psychology II	6	3	-	4	40+60
	III	UCPYN22	Social Psychology II	5	3	-	4	40+60
	III	UCPYO22	Practical II: Experimental Psychology II	6	-	3	4	40+60
	III	UEPYC22	Elective: Substance Use and Counselling	5	3	-	4	40+60
		UEPYD22	Elective: School Counselling					
	III	UCPYP22	Project	5	-	-	5	80+20
	IV	USPYF622	SBE: Consumer Behaviour	2	2	-	2	
	IV	UVEDA15	Value Education	1	-	-	2	40+60
	V		Extension Activities				1	-
Total				30			26	700
							2	
							142	3800

E) PROGRAMME OUTCOMES (PO)

PO1:Attain knowledge and understand the principles and concepts in the respective discipline.

PO2:Acquire and apply analytical, critical and creative thinking, and problem-solving skills

PO3:Effectively communicate general and discipline-specific information, ideas and opinions.

PO4:Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.

PO5:Emulate positive social values and exercise leadership qualities and team work.

PO6:Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.

F) PROGRAMME S OUTCOMES (PSO)

PSO1: Disciplinary knowledge

- i. Define major concepts in psychology and explain the theoretical perspectives of the fields in Psychology.
- ii. Capability of demonstrating comprehensive knowledge of Psychology and understanding of one or more disciplines which form a part of the undergraduate programme of study.

PSO2: Problem solving

Ability to handle various life situations confidently and competently.

PSO3: Self-directed learning

Ability to work independently and do in-depth study of various concepts of Psychology.
Learn independently through self-reflection and evaluation of one's strengths and weaknesses

PSO4: Employability Skills

Ability to gain employment and be successful in their chosen occupation which benefits the recipients, the workforce, the community and themselves.

PSO5: Research-related skills

- i. Capability for inquiring about appropriate questions relating to the concepts in various fields of Psychology.
- ii. To know about the advances in various branches of Psychology

PSO6: Communication skills

- i. Developing an understanding of the growing discipline of psychology and developing necessary skills to be effective in her communicative skills.
- ii. Use effective and fluent written, oral and visual communication to convey ideas and concept

	PO						
PSO	PO1	PO2	PO3	PO4	PO5	PO6	AVERAGE
PSO1	3	3	3	3	3	3	3
PSO2	3	3	3	3	3	3	3
PSO3	3	3	3	2	3	3	2.833
PSO4	3	3	3	3	3	3	3
PSO5	3	2	2	2	3	3	2.5
PSO6	3	3	3	3	3	3	3
Average mean score of mapping							= 17.3/6

STRONGLY CORRELATED -3, MODERATELY CORRELATED – 2, WEAKLY CORRELATED -1

SEMESTER – V

UCPYI22 - ABNORMAL PSYCHOLOGY - I

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UCPYI22	Abnormal psychology - I	Theory	Core	6	4	40+60=100

OBJECTIVE:

To introduce students to fundamental knowledge in the field of clinical psychology with emphasis on critical understanding of diagnostic criteria and treatment.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Explain abnormal behavior and the need for classification. Use ICD 11 and DSM V manuals.
- Appraise any disorder from multiple perspectives to gain a deeper understanding into the triggers, causes and underlying factors.
- Identify disorders related to neurodevelopment.
- Identify cases pertaining to different anxiety related disorders.
- Distinguish between the different somatic disorders and dissociative disorders.
- Relate theoretical knowledge to rudimentary treatment suggestions.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	M	H	H	H	M
CO 2	H	M	H	H	H	H
CO 3	H	H	H	H	H	H
CO 4	H	H	H	H	H	H
CO 5	H	H	H	H	H	H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	L	M	H	M	M	H
CO 2	M	M	M	M	M	H
CO 3	L	M	H	H	H	H
CO 4	M	M	M	H	H	H
CO 5	M	M	H	H	H	H

Low-L, Medium-M, High-H

UNIT I: INTRODUCTION AND THEORETICAL PERSPECTIVE [13 Hours]

- 1.1 Defining Abnormal Behaviour; current problems of mental disorders (K2)
- 1.2 Causes of Abnormal Behaviour: Necessary, Predisposing, Precipitating and Reinforcing factors. (K2)
- 1.3 Historical views of abnormal behaviour (K2)
- 1.4 Humanitarian reform and approaches (K2)
- 1.5 Need for classification; ICD 11 – Brief overview (K2, K3)
- 1.6 DSM V – Brief overview and criticisms (K2, K3)

UNIT II: MODELS OF ABNORMALITY [18 Hours]

- 2.1 Biological perspective (K1, K2)
- 2.2 Psychological perspectives: a) Psychodynamic perspective (K1, K2)
- 2.3 b) Behavioural and Cognitive behavioural perspectives (K1, K2)
- 2.4 c) Humanistic and Existential perspectives (K1, K2)
- 2.5 Psychological causes (K1, K2)
- 2.6 Socio – Cultural perspective and causes (K1, K2)

UNIT III: NEURODEVELOPMENT DISORDERS [18 Hours]

- 3.1 Intellectual Disability Disorder: Definition, Clinical types and Causal factors (K1, K2, K3, K4)
- 3.2 autism spectrum disorder: Clinical Picture and Causal Factors (K1, K2, K3, K4)
- 3.3 Specific Learning disorder: Clinical Picture and Causal factors (K1, K2, K3, K4)
- 3.4 Attention Deficit /Hyperactivity disorder (K1, K2, K3, K4)
- 3.5 Conduct Disorder (K1, K2, K3, K4)
- 3.6 Neurodevelopmental Motor Disorders: Developmental Coordination Disorder, Stereotypic
- 3.7 Movement Disorder, Tic Disorder. (K1, K2, K3, K4)

UNIT IV: ANXIETY RELATED DISORDERS [18 Hours]

- 4.1 Meaning of Anxiety related disorders; General Risk factors across Anxiety related disorders (K1, K2, K3)
- 4.2 Description, Etiology and Treatment of: Generalized Anxiety Disorder, Panic Disorder (K1, K2, K3, K4)
- 4.3 Phobic Disorders – Specific and Social Phobias (K1, K2, K3, K4)
- 4.4 Post-Traumatic Stress Disorder and Acute Stress Disorder (K1, K2, K3, K4)
- 4.5 obsessive compulsive disorder (K1, K2, K3, K4)
- 4.6 Body Dysmorphic Disorder, Hoarding Disorder, Trichotillomania (K1, K2, K3, K4)

UNIT V: SOMATIC DISORDER AND DISSOCIATIVE DISORDER [18 Hours]

- 5.1 Complex Somatic Symptom Disorder: a) Somatization b) Hypochondriasis c) Pain Disorder (K1, K2, K3, K4)
- 5.2 Illness Anxiety Disorder (K1, K2, K3, K4)
- 5.3 Functional Neurological Disorder (Conversion Disorder) (K1, K2, K3, K4)
- 5.4 Distinguishing Somatization, Pain, and Conversion Disorders from Malingering and Factitious Disorder (K1, K2, K3, K4)
- 5.5 Dissociative Disorders: Dissociative Amnesia and Dissociative fugue, dissociative identity disorder (K1, K2, K3, K4)
- 5.6 Depersonalization and Derealization Disorder - Causal factors and Treatment (K1, K2, K3, K4)

TEXTBOOKS:

1. Butcher, J.N., Hooley, J. M., Mineka, S., Dwivedi, C.B. (2017). Abnormal psychology (16th ed.). New Delhi, India: Pearson India Education Services Private Limited.
2. Barlow, D. (2017). Abnormal psychology and casebook in abnormal psychology (5th ed.). Belmont, CA: Wadsworth.

REFERENCE BOOKS:

1. Davison, G.C., Neale, J.M & Kring, A. M. (2004). Abnormal psychology. (9th ed.). Marblehead, MA: John Wiley & Sons Inc.
2. Alloy, L. B., Riskind, J. H., & Manos, M.J. (2005). Abnormal psychology. New Delhi, India: Tata McGraw Hill

SEMESTER – V

UCPYJ22 - SOCIAL PSYCHOLOGY - I

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UCPYJ22	Social psychology - I	Theory	Core	5	4	40+60=100

OBJECTIVE:

This course helps the student to understand the behaviour of an individual in social situations and helps to gain knowledge about the social forum.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- State the theories of Social Psychology
- Relate with the theories of attribution
- Infer the attitude changes of people over time
- Sketch out the requirements for interpersonal relationship
- Interpret the benefits out of altruistic behaviors

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	M	H	M	L	M
CO 2	H	M	H	M	L	H
CO 3	H	H	H	M	L	H
CO 4	H	H	H	M	M	H
CO 5	H	H	H	M	L	H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	L	M	M	M	M	M
CO 2	M	M	H	H	M	M
CO 3	M	M	M	H	H	H
CO 4	M	M	M	H	H	H
CO 5	M	L	L	M	M	M

L-Low Medium-M, High-H

UNIT – I: INTRODUCTION

(11 HOURS)

- 1.1 Definition - Nature of Social Psychology (K1, K2)
- 1.2 Brief History or the emergence of social psychology (K1, K2)
- 1.3 Principles of Social Psychology (K1, K2, K3)
- 1.4 Social Psychology and Human Values (K1, K2, K3)
- 1.5 Social Psychology and Common Sense (K1, K2, K3)
- 1.6 Research Methods (K2)

UNIT – II: THE SELF

(17 HOURS)

- 2.1 **Self-Presentation:** Self-Other accuracy in predicting behaviour- Self-Presentation tactics, (K1, K2, K3)
- 2.2 **Self-Knowledge:** Introspection, the self from the observer's standpoint, (K1, K2, K3)
- 2.3 **Personal identity versus social identity:** the importance of the social context and others' treatment – (K1, K2, K3, K4)
- 2.4 **Social Comparison:** Self-serving biases and unrealistic optimism, (K1, K2, K3)
- 2.5 **Self-esteem:** the measurement of self-esteem - the impact of migration on self-esteem - gender differences and self-esteem, (K2, K3, K4)
- 2.6 **Self as a target of prejudice:** concealing one's identity and its impact on well-being - overcoming the effects of stereotype threat. (K2, K3, K4)

UNIT – III: SOCIAL BELIEFS AND JUDGEMENTS

(15 HOURS)

- 3.1 **Judging the social world:** Perceiving the social world - Explaining the social world - Importance of social beliefs (K1, K2)
- 3.2 Self-fulfilling prophecy, Cognitive social psychology (K1, K2, K3)
- 3.3 **Behaviour and Attitudes:** Conditions When Attitudes Determine Behaviour - Conditions When Behaviour Determines Attitudes- Explaining Why Behaviour Affects Attitudes (K1, K2, K4)
- 3.4 **Self-presentation:** Impression Management, (K2, K3)
- 3.5 **Self-justification:** Cognitive Dissonance (K2, K3)
- 3.6 **Self perception:** Comparing the theories (K2, K3, K4)

UNIT – IV: CONFORMITY, COMPLIANCE AND OBEDIENCE

(17 HOURS)

- 4.1 **Conformity:** Definitions - Classic Studies on Conformity (K1, K2)
- 4.2 Compliance & Obedience - Factors Predicting Conformity (K1, K2)
- 4.3 Reasons for Conformity - Characteristics of people who conform, (K1, K2, K4)
- 4.4 Resisting social pressures to conform (K2, K3, K4)
- 4.5 **Compliance:** Principles of compliance, Effectiveness of compliance strategies (K1, K2, K4)
- 4.6 **Obedience:** Causes & resisting the effects of destructive obedience (K1, K2, K3, K4)

UNIT – V: HELPING BEHAVIOR

(15 HOURS)

- 5.1 **Altruism and pro-social behaviour:** Theoretical perspectives (K1, K2)
- 5.2 By Stander Effect (K2, K4)
- 5.3 **Helping:** Reasons for Helping (K1, K2)
- 5.4 Conditions Governing Helping (K1, K2, K4)
- 5.5 Characteristics of People Who Help (K1, K2, K3, K4)
- 5.6 Increasing Helping Behaviour (K2, K3, K4)

TEXT BOOKS:

1. Myers, D.G. & Twenge, J.M. (2017): *Social psychology* (12th ed.). New York, NY: McGraw - Hill Education.
2. Branscombe, N.R., Baron, R.A. & Kapur, P. (2017). *Social psychology* (14th ed.). Chennai, India: Pearson India Education Services Pvt. Limited.

REFERENCES:

1. Myers, D.G. (2002). *Social psychology* (7th ed.). New York, NY: McGraw Hill Book Company.
2. Baron, A., & Byrne, D. (2002). *Social psychology* (10th ed.). New Delhi, India: Prentice-Hall of India.

SEMESTER – V

UCPYK22 - INTRODUCTION TO RESEARCH METHODOLOGY

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UCPYK22	Introduction to research methodology	Theory	Core	5	4	40+60=100

OBJECTIVE:

To equip students with the knowledge and ability to produce research papers.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Understand the meaning of research and the principles that govern it.
- Identify the research problem and hypothesis.
- Describe different methods of sampling and choose an appropriate sampling method for their research.
- Compare different data collection methods. Collect data through different methods learnt.
- Acquire knowledge on research process and to write a structured report.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	M	M	H	L	H
CO 2	H	H	M	H	H	H
CO 3	H	H	H	H	M	H
CO 4	H	H	H	H	M	H
CO 5	H	H	H	H	M	H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	L	M	M	H	M	L
CO 2	M	L	M	H	M	M
CO 3	L	M	M	M	H	H
CO 4	L	L	M	M	M	M
CO 5	L	M	M	M	H	H

Low-L, Medium-M, High-H

UNIT I: RESEARCH METHODOLOGY: AN INTRODUCTION [13 Hours]

- 1.1 Definition- Need and Importance of psychological Research (K1, K2)
- 1.2 Objectives of Research (K1, K2)
- 1.3 Types of Research (K1, K2)
- 1.4 The Research Process (K1, K2)
- 1.5 Principles and ethics in Research (K1, K2)
- 1.6 Problems encountered by researchers in India. (K1, K2)

UNIT II: RESEARCH PROBLEM, HYPOTHESIS AND REVIEW OF LITERATURE [16 Hours]

- 2.1 **Research Problem:** Meaning and characteristics of a problem (K1, K2)
- 2.2 Ways in which a problem is manifested, Types of Problems (K1, K2, K3)
- 2.3 **Hypothesis:** Meaning and characteristics of a good hypothesis (K1, K2)
- 2.4 Types - Sources and Functions of Hypotheses (K1, K2, K3)
- 2.5 **Reviewing the Literature:** Purpose of Review (K1, K2)
- 2.6 Sources of Review (K1, K2, K3)

UNIT III: SAMPLING [16 Hours]

- 3.1 Meaning and Need for sampling (K1, K2)
- 3.2 Fundamentals of sampling (K1, K2)
- 3.3 Factors influencing decision to sample (K1, K2)
- 3.4 Types of Sampling: Probability and Non-probability- Probability Sampling: Simple random, stratified random, random cluster sampling (K1, K2, K3)
- 3.5 non-probability sampling: Quota, Accidental, Judgemental or purposive, systematic and snowball sampling (K1, K2, K3)
- 3.6 Probability and Non-probability sampling: Advantages, Disadvantages, Steps, Deciding appropriate sampling methods (K1, K2, K3, K4)

UNIT IV: METHODS OF DATA COLLECTION [14 Hours]

- 4.1 **Primary data:** Questionnaire and schedule (K2, K3)
- 4.2 Interview (K2, K3)
- 4.3 Observation as a tool of Data Collection (K2, K3)
- 4.4 Difference between Participant observation and non-participant observation (K2, K3)
- 4.5 Rating Scale (K2, K3)
- 4.6 **Secondary data:** Sources. (K2, K3)

UNIT V: REPORT WRITING

[16 Hours]

- 5.1 Meaning and significance of report writing (K2)
- 5.2 General purpose of writing a research report (K1, K2)
- 5.3 Types of research reports, Styles of writing a research report (K1, K2, K3)
- 5.4 Steps in report writing (K1, K2, K3)
- 5.5 Layout of a report (K1, K2, K3, K4)
- 5.6 Precautions in writing a research report (K1, K2, K3, K4)

TEXTBOOKS:

1. McBurney, D.H. (2007). Research methods; New Delhi, India: Thomson Wadsworth
2. Singh, A.K. (2012). Tests, measurements and research methods in behavioural sciences. (5th ed.). Patna, India: B.B. Printers.

REFERENCES:

1. Haslam, A.S., & McGarty, C. (2003). Research methods and statistics in psychology. New Delhi, India: Sage Publications.
2. Ramadass, P., & Aruni, W. A. (2009): Research and writing across the disciplines; Chennai, India: MJP Publishers

SEMESTER – V

UCPYL22 - EXPERIMENTAL PSYCHOLOGY-I

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UCPYL22	Experimental Psychology I	Practical	Core	6	4	40+60=100

OBJECTIVE:

To provide practical exposure to assess, analyse and interpret various psychological concepts.

LIST OF ASSESSMENTS:

A minimum of 10 experiments should be chosen from the given list for record and practice

- Finger dexterity- **psychomotor**
- Tweezer dexterity- **psychomotor**
- Maze learning- **Learning**
- Mirror Drawing- **Learning**
- Muller-layer illusion - **Perception**
- Size-weight illusion- **Perception**
- Span of attention- **Attention**
- Division of attention- **Attention**
- Concept formation blocks- **Concept formation**
- Conception formation cards - **Concept formation**
- State-trait anxiety test- **Emotion**
- Test for General Intelligence for College Students - **Intelligence**
- Bhatia's battery- **Intelligence**
- Immediate memory-**Memory**
- Memory Drum- **Memory**
- BKT
- Seguin form board
- Gazette drawing

Distribution of Marks: 100 Marks

Internal = 40	Model Examination - 20, Record-20
External = 60	Viva-10, materials required-5, Conduction-10, Plan and Procedure - 10, Result and Tabulation-5, Discussion -15, Conclusion -5

SEMESTER – V

UEPYA22 – ELECTIVE I A: GUIDANCE AND COUNSELLING PSYCHOLOGY

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UEPYA22	Guidance and Counselling Psychology	Theory	Elective	5	3	40+60=100

OBJECTIVE:

To give students a comprehensive overview of counselling with theoretical and practical components.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to: (all to be made as one verb)

- Summarize the nature, goals and fields of counselling.
- Infer relevant approaches for different counselling cases.
- Use appropriate diagnostic tools to identify the presenting issues
- Nurture qualities and skills required for effective counselling
- Describe different areas in counselling.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	H	M	M	M
CO 2	H	H	H	H	M	H
CO 3	H	H	H	H	H	H
CO 4	H	H	H	H	H	M
CO 5	H	H	H	M	H	H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	H	L	M	H	H	H
CO 2	H	L	H	H	H	M
CO 3	H	L	M	H	L	H
CO 4	L	H	H	H	H	H
CO 5	H	L	M	M	H	H

Low-L, Medium-M, High-H

UNIT I: NATURE AND SCOPE OF GUIDANCE AND COUNSELLING [11 Hours]

- 1.1 Counselling and Guidance: Meaning, Nature (K2)
- 1.2 Need and Functions of Guidance and Counselling (K2)
- 1.3 Fundamental Precepts of Effective Helping (K1, K2, K3)
- 1.4 Emergence of Guidance and Counselling in India (K2)
- 1.5 Goals and Scope of Guidance and Counselling (K1, K2)
- 1.6 Types of Counselling Services (K1, K2, K3, K4)

UNIT II: APPROACHES TO COUNSELLING AND THE COUNSELLING PROCESS [16 Hours]

- 2.1 Directive and non-directive approaches: Humanistic approach (K1, K2, K3)
- 2.2 Behaviouristic approach (K1, K2, K3)
- 2.3 Existential Approach (K1, K2, K3)
- 2.4 Eclectic Approach (K1, K2, K3)
- 2.5 Counselling Process: Preparation for counselling (K1, K2, K3, K4)
- 2.6 Steps in the counselling process (K1, K2, K3)

UNIT III: PSYCHOLOGICAL TESTING AND DIAGNOSIS [16 Hours]

- 3.1 Use of psychological tests in guidance and counselling (K1, K2)
- 3.2 Types of psychological tests (K1, K2)
- 3.3 Nature of a good psychological test (K2)
- 3.4 Test interpretation in counselling (K2, K3, K4)
- 3.5 Limitations of psychological tests, Diagnosis and its limitations (K1, K2, K3, K4)
- 3.6 Mental Status Examination (K2, K3, K4)

UNIT IV: COUNSELLOR QUALITIES, SKILLS AND ETHICAL RESPONSIBILITIES [16 Hours]

- 4.1 **Qualities of an effective counsellor:** Empathy, Attending Behaviour, Therapeutic Alliance (K1, K2, K3)
- 4.2 RESPECTFUL model, Diversity and Multicultural Competence (K1, K2, K3)
- 4.3 **Counsellor skills:** Building Trust, Building Rapport (SOLER), Observational Skills (K1, K2, K3)
- 4.4 Micro Skills hierarchy (K1, K2, K3)
- 4.5 **Ethics in Counselling:** Code of Professional Ethics (K1, K2, K3)
- 4.6 Common Ethical violations by Professional Counsellors (K2, K3, K4)

UNIT V: SPECIAL AREAS IN COUNSELLING

[16 Hours]

- 5.1 Family group consultation: Counselling with Parents, Counselling Families Concerning Children (K2, K3)
- 5.2 Premarital and Marriage Counselling (K2, K3)
- 5.3 Career Guidance, Career Counselling; Adolescent Counselling (K2, K3)
- 5.4 Counselling the differently-abled person (K2, K3)
- 5.5 Counselling children in conflict with the law (K2, K3)
- 5.6 Role of the Counsellor in developing subjective and holistic well-being, (post covid) (K2, K3, K4)

TEXTBOOKS:

1. Rao, N. (2013). *Counselling and Guidance*. Chennai, India: Tata McGraw Hill.
2. Gladding, S.T. (2017). *Counselling: A comprehensive profession*. Chennai, India: Pearson.
3. Gibson, R. L., & Mitchell, M. H. (2007). *Introduction to counselling and guidance* (7th ed.). Upper Saddle River, NJ: Prentice-Hall.
4. Ivey, A. E., Ivey, M. B., & Zalaquett, C. P. (2014). *Intentional Interviewing and Counselling, Facilitating Client Development in a Multicultural Society* (8th Edition). Belmont, CA: Cengage Learning.

REFERENCES:

1. Nayak, A. K. (2007): *Guidance and counseling*. New Delhi, India: APH Publishing.
2. Barki, B. G., & Mukhopadhyay, B. (2008): *Guidance and counselling manual*. New Delhi, India: Sterling.
3. Kochhar, S. K. (1984). *Guidance and counselling in colleges and universities*. New Delhi, India: Sterling.

SEMESTER – V

UEPYB22 – ELECTIVE I B: POSITIVE PSYCHOLOGY

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UEPYB22	Positive psychology	Theory	Elective	5	3	40+60=100

OBJECTIVE:

To introduce the basic concepts of the growing approach of positive psychology and understand its applications in various domains.

COURSE OUTCOMES (CO)

On completion of the course, the students will be able to:

- Define positive psychology and its related construct
- Relate positive emotions with Well-being and happiness
- Formulate effective self-regulation
- Identify positive cognitive states and their processes.
- Apply positive psychology in different settings.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	M	M	M	H
CO 2	H	H	H	H	H	H
CO 3	H	H	H	H	H	H
CO 4	H	H	H	H	H	H
CO 5	H	H	H	H	H	H

Low-L, Medium-M, High-H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	M	H	M	H	M	H
CO 2	M	H	H	M	M	M
CO 3	H	M	H	M	M	H
CO 4	H	H	M	M	H	H
CO 5	H	M	H	H	M	M

UNIT I: INTRODUCTION

(11 Hours)

- 1.1 Positive psychology: Introduction, Definition
- 1.2 Goals and assumption
- 1.3 Perspectives on Positive Psychology: Western and Eastern
- 1.4 Relationship with health psychology, developmental psychology, clinical psychology
- 1.5 Character Strengths and virtues

UNIT II: POSITIVE EMOTIONS, WELL-BEING AND HAPPINESS

(16 Hours)

- 2.1 **Positive emotions:** Broaden and build theory; Cultivating positive emotions;
- 2.2 Resilience
- 2.3 **Happiness** - hedonic and Eudaimonic;
- 2.4 **Well-being:** negative vs positive functions;
- 2.5 Subjective well-being: Emotional, social and psychological well-being;
- 2.6 Model of complete mental life

UNIT III: SELF CONTROL, REGULATION AND PERSONAL GOAL SETTING (11 Hours)

- 3.1 The value of self-control;
- 3.2 Personal goals and self-regulation;
- 3.3 Personal goal and well-being;
- 3.4 Goals that create self-regulation;
- 3.5 Everyday explanations for self-control failure problems

UNIT IV: POSITIVE COGNITIVE STATES AND PROCESSES

(16 Hours)

- 4.1 Self-efficacy
- 4.2 Optimism
- 4.3 Hope,
- 4.4 Flow
- 4.5 Mindfulness and spirituality (Frankl)

UNIT V: APPLICATIONS OF POSITIVE PSYCHOLOGY

(16 Hours)

- 5.1 Tools used in the measurement
- 5.2 Positive schooling: Components;
- 5.3 Positive coping strategies; Interventions
- 5.4 Interpersonal Relationships: Forgiveness, gratitude, resilience, Wisdom, courage (altruism), optimism.
- 5.5 Moving toward balanced conceptualization;

TEXT BOOKS:

1. Baumgardner, S.R & Crothers, M.K.(2010). Positive Psychology. U.P: Dorling Kindersley Pvt Ltd.

REFERENCES:

1. Snyder, C.R. & Lopez, S.J. (2002). Handbook of positive psychology. (eds.). New York: Oxford University Press.
2. Carr, A. (2004). Positive psychology, The science of happiness and human strengths. New York: Routledge.

SEMESTER – V

USPYE522 - COMMUNICATIVE SKILLS

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	USPYE522	Communicative Skills	Theory	Skill Based Elective	2	2	40+60=100

OBJECTIVE:

To equip students with the necessary competence in communication skills for today's professional world.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Understand basic components of communication.
- Develop basic skills required for communication.
- Utilize different modes of communication efficiently.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	M	M	L	L
CO 2	H	H	M	M	M	L
CO 3	M	H	M	M	H	L

Low-L, Medium-M, High-H

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	M	H	M	H	L	L
CO 2	H	H	M	H	H	L
CO 3	L	H	M	L	H	L

UNIT – I BASICS OF COMMUNICATION

[5 Hours]

- 1.1 Changes in Communication across time (K1, K2)
- 1.2 Communication Process (K1, K2)
- 1.3 Models of Communication (K1, K2)
- 1.4 Types of communication (K1, K2)
- 1.5 Etiquettes of communication (K1, K2, K3)

UNIT – II REQUIREMENTS OF AN EFFECTIVE COMMUNICATOR [6 Hours]

- 2.1 **Active Listening** (K1, K2, K3)
- 2.2 **Skills required for verbal (oral and written) and non-verbal communication:** Verbal Skills: Questioning skills, Constructive Feedback (K1, K2, K3)
- 2.3 Non-Verbal Communication: Facial Expressions, Micro Expressions, Vocal Tone, Pitch, Rate of pitch, Gestures, Body Language (K1, K2, K3)
- 2.4 **Presentation of content:** Setting Objective, Understanding the Audience, Knowing the Setting, Writing Down the ‘Central Theme’ of the Talk (K1, K2, K3)
- 2.5 Writing the Outline, Developing Visual Aides, Preparing Delivery Notes and Delivering the Presentation (K1, K2, K3)

UNIT – III COMMUNICATION IN REAL LIFE SETTINGS

[15 Hours]

- 3.1 Individual and group meetings (exchanging greetings, introduction, sharing personal information, small talk, maintaining a conversation) (K2)
- 3.2 Telephonic exchanges (answering telephone, asking for someone, making inquiries, dealing with the wrong number, taking and leaving messages) (K2)
- 3.3 Online Communication (Making new friends, maintaining friendships online, dealing with inappropriate messages, cyberbullying and threats) (K2)
- 3.4 Audio and Visual Communication (Developing a profile, understanding communication done through channels such as: Stories, Radio, Art, Videos) (K2)
- 3.5 Group Project: Communicating any mental health or social issue related concept as a group to the public through the afore mentioned channels. (K2)

UNIT -IV GROUP DISCUSSION AND PUBLIC SPEAKER

- 4.1 Introduction, Definition of group discussion, different between group discussion and debate with number and duration. (K1, K2, K4, K5)
- 4.2 Types of group discussion, personality traits to be evaluated – reasoning ability, leadership,

openness, assertiveness, initiative, motivation, attentive listening, awareness. (K1, K2, K5)

4.3 Dynamic of group behaviour/ group etiquette and mannerism and techniques for group discussion. (K1, K2,)

4.4 Introduction of public speaking, delivering different types of speeches. (K1, K2, K4)

4.5 Selecting an appropriate method – speaking from memory, speaking from manus script, speaking impromptu, speaking from notes. (K1, K2, K3,)

4.6 Making speech interesting – make your beginnings catchy, use wit and humour, use appropriate body language, use proper voice modulation, use examples and instances, end on an emphatic note. (K1, K2, K3, K6)

UNIT -V BUSSINESS LETTERS AND RESUMES

5.1 Introduction, importance, (K1, K2)

5.2 Elements of structure, layout. (K1, K4)

5.3 Business letters – element of style (K1, K2, K4)

5.4 Types of business letters – acknowledgement letter, letter of recommendation, appreciation letter, acceptance letter, apology letter, complaint letter, enquiry letter, invitation letter, rejection letter, order letter, application letters and cover letters, sales letter. (K1, K2, K3, K4)

5.5 Resume preparation – what is resume? Purpose of resume, what do I included on resume? Types of resumes, preparation before writing a resume, format and layout, sample resumes. (K1, K2, K3, K6)

TEXTBOOK:

1. Mastering communication skills and soft skills N. Krishnaswamy, Manju Dariwal, Lalitha Krishnaswamy (Bloomsbury).
2. Kumar.S., Lata.P (2015) communication skills (2nd ed), Oxford University press, New Delhi.

OTHER RESOURCES:

[Chapter-8 \(Soft Skill\).pmd \(ncert.nic.in\)](#)

SEMESTER – VI

UCPYM22 - ABNORMAL PSYCHOLOGY II

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / VI	UCPYM22	Abnormal Psychology II	Theory	Core Theory	6	4	40+60=100

OBJECTIVE:

To introduce students to various disorders related to mood, psychotic, personality, and substance use disorders.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Discuss symptomatic criteria, and treatment of mood disorders.
- Identify symptoms and causes of schizophrenia and psychotic symptoms.
- Distinguish between different clusters of personality disorders and identify them.
- Summarize the concepts, symptoms and treatments of various addiction related disorders.
- Relate psychotherapeutic knowledge to various disorders.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	H	H	H	M
CO 2	H	H	H	H	H	M
CO 3	H	H	H	H	H	M
CO 4	H	H	H	H	H	M
CO 5	H	H	H	H	H	M

CO/PO	PO					
	1	2	3	4	5	6
CO 1	L	M	H	M	M	H
CO 2	M	M	M	M	M	H
CO 3	L	M	H	H	H	H
CO 4	M	M	M	H	H	H
CO 5	M	M	H	H	H	H

Low-L, Medium-M, High-H

UNIT I: MOOD DISORDERS

[18 Hours]

- 1.1 Unipolar mood disorder: Biological factors (K1, K2, K4)
- 1.2 Psychosocial and Socio- cultural Causal factors (K1, K2, K4)
- 1.3 Bipolar disorders: Biological factors (K1, K2, K4)
- 1.4 Psychosocial and Socio- cultural Causal Factors (K1, K2, K4)
- 1.5 Treatment (K1, K2, K3, K4)
- 1.6 Suicide: Causes, Prevention, Treatment (K1, K2, K3, K4)

UNIT II: SCHIZOPHRENIA AND OTHER PSYCHOTIC DISORDERS [16 Hours]

- 2.1 **Schizophrenia:** Meaning (K2)
- 2.2 Clinical features – positive and negative symptoms (K1, K2, K3, K4)
- 2.3 Causes (K1, K2, K4)
- 2.4 Treatment (K1, K2, K3, K4)
- 2.5 Subtypes (K1, K2, K3, K4)
- 2.6 **Other Psychotic Disorders:** Causal Factors - Treatment (K1, K2, K3, K4)

UNIT III: PERSONALITY DISORDERS

[18 Hours]

- 3.1 Steps of personality assessment in the proposed DSM V (K1, K2, K3)
- 3.2 Cluster A disorders: Meaning, Types, Causes. (K1, K2, K3, K4)
- 3.3 Cluster B disorders: Meaning, Types, Causes: Anti-Social Personality Disorder, Borderline Personality Disorder (K1, K2, K3, K4)
- 3.4 Histrionic Personality Disorder, Narcissistic Personality Disorder (K1, K2, K4)
- 3.5 Cluster C disorders: Meaning, Types, Causes (K1, K2, K3, K4)
- 3.6 Treatment of Personality Disorders (K1, K2, K3, K4)

UNIT IV: SUBSTANCE RELATED DISORDERS

[18 Hours]

- 4.1 Concepts: Substance Abuse, Tolerance, Dependence, Addiction, Withdrawal symptoms (K1, K2)
- 4.2 Neurobiology and Physiology of addiction (K1, K2)
- 4.3 Addiction Disorders: Alcohol Abuse and Dependence: Etiology, Criteria (K1, K2, K3, K4)
- 4.4 yCber addiction: causes, symptoms and consequences
- 4.5 Psychoactive drugs (Meaning, Classification), Drug Abuse and Drug Dependence: Etiology, Causal factors (K1, K2, K3, K4)
- 4.6 Treatment – Pharmaceutical, Psychotherapeutic interventions. (K1, K2, K3)

UNIT V: PREVENTION AND TREATMENT

[16 Hours]

- 5.1 Perspectives on Prevention - Primary, Secondary and Tertiary Prevention (K1, K2, K3, K6)
- 5.2 Psychological approaches to treatment: Psycho dynamic therapy (K1, K2, K3)

- 5.3 Behaviour therapy, Cognitive and Cognitive Behavioural therapies (K1, K2, K3)
- 5.5 Humanistic and Existential therapies, Family and Marital Therapy (K1, K2, K3)
- 5.6 Eclecticism and Integration, Indigenous systems: Yoga and Meditation. (K1, K2, K3, K4)

TEXT BOOKS:

1. Butcher, J.N., Hooley, J.M., Mineka, S., & Dwivedi, C.B. (2017). Abnormal psychology (16th ed.). New Delhi, India: Pearson Publication.
2. Barlow, D. (2017). Abnormal psychology and casebook in abnormal psychology, (5th ed.). Belmont, CA: Wadsworth.

REFERENCES:

1. Davison, G.C., Neale, J.M., & Kring, A. M. (2004). Abnormal psychology. (9th ed.). Malden, MA: John Wiley & Sons Inc.
2. ,L.B., Riskind, J.H., & Manos, M.J. (2005). Abnormal psychology. New Delhi, India: Tata McGraw Hill publishing Co.

SEMESTER – VI

UCPYN22 - SOCIAL PSYCHOLOGY -II

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / VI	UCPYN22	Social Psychology II	Theory	Core Theory	5	4	40+60=100

OBJECTIVE:

This course gives a deeper understanding about human behaviour and mental process in a social context.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Identify the elements of persuasion and related theories
- Relate the group influence on individuals
- Demonstrate the consequences of group antagonism
- Discuss and analyse various theories of aggression and strategies to reduce aggression.
- Summarize on liking, love and close relationships.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	H	H	H	H
CO 2	H	H	H	H	H	H
CO 3	H	H	H	H	H	H
CO 4	H	H	H	H	H	H
CO 5	H	H	H	H	H	H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	M	L	M	H	H	H
CO 2	H	L	M	M	M	M
CO 3	L	M	M	M	M	M
CO 4	M	M	M	M	L	
CO 5	M	M	M	M	M	L

Low-L, Medium-M, High-H

UNIT - I PERSUASION

(13 HOURS)

- 1.1 Theories of Persuasion:** the central route - the peripheral route (K1,K2,K3,K4)
- 1.2** different pathways for different purposes (K1,K2,K3)
- 1.3** Elements of Persuasion: communicator, content, channel, audience (K1,K2,K3,K4)
- 1.4** Cults & persuasion – Resisting(K1,K2,K3)
- 1.5** Persuasion: strengthening personal commitment, (K1,K2,K3)
- 1.6** Inoculation programs- implications of attitude inoculation.(K1,K2,K3)

UNIT - II GROUP INFLUENCE:

(16HOURS)

- 2.1** Definition of Group - **Social Facilitation:** the mere presence of others, crowding, factor(K1,K2,K3)
- 2.2 Social Loading:** Introduction, social loafing in everyday life(K1,K2,K3,K4)
- 2.3 De-individualization:** importance of working together, diminishing self-awareness(K1,K2,K3,K4)
- 2.4 Group Polarization:** The risky shift phenomenon, Group influence on opinions(K1,K2,K3,K4)
- 2.5 Group Think:** symptoms, critiquing, preventing group think, group problemsolving(K1,K2,K3)
- 2.6 The influence of the minority:** consistency, self-confidence, deflections from a majority, leadership as minority influence(K1,K2,K3,K4)

UNIT - III PREJUDICE

(14 HOURS)

- 3.1** Nature and Power of Prejudice (K1,K2,K3)
- 3.2** Social Sources of Prejudice (K1,K2,K3)
- 3.3** Motivational Sources of Prejudice (K1,K2,K3)
- 3.4** Cognitive Sources of Prejudice (K1,K2,K3)
- 3.5** Consequences of Prejudice -Discrimination (K1,K2,K3)
- 3.6** prejudice in action – Techniques for countering the effects of prejudice(K1,K2,K3)

UNIT - IV AGGRESSION

(16 HOURS)

- 4.1 Aggression:** Definition - Hurting Others(K1,K2,K3)
- 4.2** Theories of Aggression (K1,K2,K3)
- 4.3** Media violence (K1,K2,K3)
- 4.4** Sexual violence (K1,K2,K3)
- 4.5** Strategies to reduce Aggression.(K1,K2,K3)

UNIT – V: LIKING, LOVE AND OTHER CLOSE RELATIONSHIPS [16 HOURS]

- 5.1 Internal sources of liking others:** the role of needs and emotions(K1,K2,K3)
- 5.2 External sources of attraction:** the effects of proximity(K1,K2,K3)

- 5.3 familiarity and physical beauty (K1,K2,K3)
- 5.4 Sources of liking based on social interaction (K1,K2,K3)
- 5.5 **Close relationships** - foundations of social self (K1,K2,K3,K4)
- 5.6 Divorce & the detachment process(K1,K2,K3,K4)

TEXTBOOKS:

1. Myers, D.G., & Twenge, J.M. (2017). *Social psychology* (12th ed.). New York, NY: McGraw - Hill Education.
2. Branscombe, N.R., Baron, R.A. & Kapur, P. (2017). *Social psychology* (14th ed.). Chennai, India: Pearson India Education Services Private Limited.

REFERENCES:

1. Myers, D. G. (2002). *Social Psychology* (7th ed.). New York, NY: McGraw Hill Book Company.
2. Baron, A., & Byrne, D. (2002). *Social Psychology* (10th ed.). New Delhi, India: Prentice-Hall of India.

SEMESTER – VI

UCPYO22 - PRACTICAL -EXPERIMENTAL PSYCHOLOGY-II

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / VI	UCPYO22	Experimental Psychology I	Practical	Core	6	4	40+60=100

OBJECTIVE:

- i) To provide practical exposure to assess, diagnose and interpret various psychological concepts.
- ii) To understand the mental status examination (MSE).

LIST OF ASSESSMENTS:

A minimum of 10 experiments should be chosen from the given list for record and practice

- Achievement Motivation scale- **Achievement tests**
- Leadership preference scale - **Leadership**
- Eysenck's personality inventory -**Personality**
- 16 PF personality test –**Personality**
- Neuroticism Scale Questionnaire -**Personality**
- Thurstone interest schedule –**Interest**
- Comprehensive Interest Schedule - **Interest**
- Singh's personality stress-**Stress and coping**
- Bell's adjustment inventory- **adjustment**
- General test for creativity based on Wallach Kogan- **Creativity**
- Passi test for creativity - **Creativity**
- Distinctive aptitude test - **Aptitude**
- Sexual attitude scale - **Attitude**
- Motivational analysis test - **Motivation**
- P.G.I General Wellbeing measure – **Health and Wellbeing**
- **MSE**

Distribution of Marks: 100 Marks

Internal = 40	Model Examination - 20, Record-20
External = 60	Viva-10, materials required-5, Conduction-10, Plan and Procedure - 10, Result and Tabulation-5, Discussion -15, Conclusion -5

SEMESTER – VI

UEPYC22 – ELECTIVE: SUBSTANCE USE AND COUNSELLING

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UEPYC22	Substance Use and Counselling	Theory	Elective	5	3	40+60=100

OBJECTIVE:

To develop an understanding on various substances used, addiction and gain skills used in managing substance abuse.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Explain theories and concepts related to addiction.
- Discuss causes, symptoms, and treatment for alcohol addiction disorder
- Summarize the causes, effects, and treatment of nicotine addiction.
- Compare different opioids, cannabis and their effects
- Describe substance abuse management techniques and therapy.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	M	H	H	H
CO 2	H	H	H	H	H	H
CO 3	H	H	H	H	H	H
CO 4	H	H	M	H	H	H
CO 5	H	H	H	H	H	M

Low-L, Medium-M, High-H

CO/PO	PO					
	1	2	3	4	5	6
CO 1	M	H	M	H	M	H
CO 2	H	H	M	M	H	M
CO 3	M	M	H	M	H	H
CO 4	H	H	M	H	M	H
CO 5	H	H	M	M	H	M

UNIT 1: INTRODUCTION

[15 Hours]

- 1.1 Definition of terms: addiction, harmful use, dependence – criteria for dependence (K1, K2)
- 1.2 Historical concepts of substance use: moral concept, disease concept and lifestyle choice (K2, K3, K4)
- 1.3 Theories of addiction: biological theories;(K1, K2, K3, K4)
- 1.4 Psychological theories: personality traits, (K1, K2, K3, K4)
- 1.5 Psychodynamic explanation (K1, K2, K3, K4)
- 1.6 Learning theories (K1, K2, K3, K4)

UNIT 2: ALCOHOL

[15 Hours]

- 2.1 Alcohol kinds, Contents, Levels of intoxication (K1, K2)
- 2.2 Patterns of use, Causes of addiction (K1, K2, K4)
- 2.3 Acute effects of alcohol use: physical and psychological effects (K1, K2, K4)
- 2.4 Long term effects of alcohol use: physical and psychological (K1, K2, K4)
- 2.5 Cycle/Stages of addiction (K1, K2, K3, K4,)
- 2.6 12 step facilitation therapy, Alcoholics Anonymous (K1, K2, K3, K4)

UNIT 3: NICOTINE

[15 Hours]

- 4.1 Types of tobacco - smoking and smokeless(K1, K2)
- 4.2 Modes of use, Causes of addiction (K1, K2, K4)
- 4.3 Acute effects of nicotine use: physical and psychological (K1, K2, K4)
- 4.4 Long term effects of nicotine use: physical and psychological (K1, K2, K4)
- 4.5 Cycle/ Stages of addiction (K1, K2, K3, K4,)
- 4.6 Nicotine Anonymous, Nicotine replacement Therapy: Nicotine Patch, Nicotine gum (K1, K2, K3, K4)

UNIT 4: OPIOIDS AND CANNABIS

[15 Hours]

- 3.1 **What are opioids:** natural, synthetic (K1, K2)
- 3.2 Routes of administration (K1, K2, K4)
- 3.3 Acute effects of opioid use : physical and psychological (K1, K2, K4)
- 3.4 Long term effects of opioid use: physical and psychological (K1, K2, K4)
- 3.5 **Cannabis** - components and preparation, Modes of use (K1, K2)
- 3.6 Physical and psychological effects: acute and long term (K1, K2, K4)

UNIT 5: MANAGEMENT OF SUBSTANCE USE

[15 Hours]

- 5.1 Assessment of motivation and stages of motivation (K1, K2)
- 5.2 Goals of treatment and Treatment settings (K1, K2, K3, K4)
- 5.3 Motivational interviewing, motivational enhancement therapy (K1, K2, K3)
- 5.4 Relapse prevention strategies: Identifying precipitants of relapse, high risk situations-social skills training (K1, K2, K3, K4)
- 5.5 Assertiveness training, Life skills training (K1, K2, K3, K4)
- 5.6 Family and Marital Therapy (K1, K2, K4)

TEXT BOOKS:

1. Lal, R (2005). Substance use Disorder: Manual for Physicians. New Delhi: AIIMS.
2. Patricia Stevens, Robert L Smith (2017). substance use theory and practice.

REFERENCES:

1. Marlatt, A., & Donovan, D. (Eds). (2005). Relapse Prevention: Maintenance Strategies in the Treatment of Addictive Behaviours. New York: The Guilford Press
2. Murthy, P., & Nikhetha, S. (Eds). (2007) Psychosocial Interventions for Persons with Substance Abuse. Bangalore: NIMHANS Publication

SEMESTER VI

UEPYD22 – ELECTIVE: SCHOOL COUNSELLING

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / V	UEPYD22	School Counselling	Theory	Elective	5	3	40+60=100

OBJECTIVE:

- To impart knowledge on counselling in school settings.
- To equip students with basic skills required to counsel in schools.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Recognize the character and functions of a school counsellors.
- Explore common issues faced by children and adolescence.
- Outline negative behaviour and ways of counselling both victims and offenders.
- Develop a stronger sense of self and wellbeing in themselves.
- Facilitating and enhancing their strengths (children and adolescent) at school level.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	M	H	H	M	H
CO 2	H	H	H	H	H	H
CO 3	H	H	H	H	H	H
CO 4	H	H	H	H	H	H
CO 5	H	H	H	H	H	H

Low-L, Medium-M, High-H

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	M	M	H	H	M	H
CO 2	H	M	H	M	H	M
CO 3	M	H	M	H	H	H
CO 4	H	M	H	H	M	M
CO 5	M	M	H	M	H	H

UNIT I: SCHOOL COUNSELING – INTRODUCTION

[15Hours]

- 1.1 Introduction: Meaning, Need (K1, K2)
- 1.2 Scope for School Counselling (K1, K2)
- 1.3 Characteristics of a School Counsellor (K1, K2, K3)
- 1.4 Functions of a School Counsellor (K1, K2, K3, K4)
- 1.5 Planning counselling sessions (K2, K3)
- 1.6 Counselling at different grades (K2, K3)

UNIT II: ISSUES AMONG CHILDREN AND ADOLESCENTS

[15 Hours]

- 2.1 Identity Crisis: Erikson's theory and Marcia's theory (K1, K2, K3)
- 2.2 Parental separation: Counselling students at the Beginning of Parental separation (K2, K3)
- 2.3 Interpersonal Relationships, Relationship Loss (K2, K3)
- 2.4 Bereavement: Bereavement Counselling (K2, K3)
- 2.5 Common issues faced by children and adolescents (K2, K3)

UNIT III: NEGATIVE BEHAVIOR

[15 Hours]

- 3.1 Bullying in School: Counselling Bullies (K2, K3, K4)
- 3.2 Counselling victims of physical and verbal abuse (K2, K3, K4)
- 3.3 Counselling victims of cyber bullying (K2, K3, K4)
- 3.4 Aggressive Behaviour: Violence and aggression (K2, K3, K4)
- 3.5 Counselling violent and Aggressive students - Anger management (K2, K3, K4)
- 3.6 Counselling students with Drug Abuse and Smoking (K2, K3, K4)
- 3.7 Phone and game addiction (K2, K3)

UNIT IV: BUILDING SELF

[15 Hours]

- 4.1 Counselling to raise Self-Esteem (K2, K3, K4)
- 4.2 Personality Development (K2, K3, K4)
- 4.3 Counselling Depressed Students (K2, K3, K4)
- 4.4 Counselling students with suicidal thoughts (K2, K3, K4)
- 4.5 Counselling sexually abused students (K2, K3, K4)
- 4.6 Counselling students with an academic problems and personal problems (K2, K3, K4)

UNIT V: MEANING IN LIFE

[15 Hours]

- 5.1 Understanding the purpose of life (K2, K3, K4)
- 5.2 Identifying the potentials and strengths (K2, K3, K4)
- 5.3 Setting goals: short-term and long-term goals (K2, K3, K4)

- 5.4 Self - Motivation and Drive for competence/ achievement/ excellence (K2, K3, K4)
- 5.5 Contribution to family, school and society (K2, K3, K4)
- 5.6 Resilience (K2, K3, K4)

TEXT BOOK AND REFERENCES:

1. Lines, D. (2011). Brief counseling in school: Working with young people from 1 to 18. Sage publication.
2. Baginsky, W. (2004). School counseling in England, Wales and Northern Ireland: a review. London : National society for the prevention of cruelty to children.

SEMESTER VI

USPYF22 – SBE: CONSUMER BEHAVIOUR

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / VI	USPYF22	Consumer Behaviour	Theory	Skill Based Elective	2	1	40+60=100

OBJECTIVE:

To understand the nature, attitude, and behaviour of consumers and their communication process.

COURSE OUTCOMES (CO):

On completion of the course, the students will be able to:

- Define consumer behaviour and the different kinds of consumers.
- Relate factors influencing consumer behaviour to exist marketing strategies of brands and advertisements.
- Recall theoretical concepts regarding consumer attitudes and communicate across them.
- Analyse the influence of family, money and social class on a consumer's decisions.
- Break down the decision-making process and patterns of buying of both consumers and organizational buyers for effective marketing strategies.

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	H	H	M	H	M	H
CO 2	H	H	H	H	H	H
CO 3	H	H	H	H	H	H
CO 4	H	H	H	H	H	H
CO 5	H	H	H	H	H	H

Low-L, Medium-M, High-H

CO/PSO	PSO					
	1	2	3	4	5	6
CO 1	M	H	M	H	H	M
CO 2	M	M	H	M	H	H
CO 3	H	H	M	H	M	H
CO 4	M	M	H	H	H	M
CO 5	H	M	H	M	H	H

UNIT – I: INTRODUCTION

[6 Hours]

- 1.1 Definition, scope, consumer roles, (K1, K2)
- 1.2 History of consumer behaviour and the marketing concept (K1, K3)
- 1.3 Contributing disciplines and application of consumer behaviour (K1, K2, K3)
- 1.4 Market segmentation: need, types - geographic, demographic, (K1, K2, K3)
- 1.5 Psychographic and life style. (K1, K2, K3, K4)
- 1.6 Product positioning: need and strategy (K2, K3, K4)

UNIT – II: FACTORS INFLUENCING CONSUMER BEHAVIOUR

[6 Hours]

- 2.1 Consumer motivation: needs, goals, motive arousal, reactions to frustration (K1, K2, K3)
- 2.2 Consumer Personality: nature, influences on consumer behaviour (K1, K2, K4)
- 2.3 Consumer emotions: nature, uses in advertising (K1, K2, K4)
- 2.4 Consumer Perception and its implications (K2, K3, K4)
- 2.5 Consumer Learning: Classical and Instrumental theories in the context of consumer behaviour (K1, K2, K3, K4)

UNIT – III: CONSUMER ATTITUDE AND COMMUNICATION PROCESS [6 Hours]

- 3.1 Attitude: functions, Tri-component attitude model (K1, K2, K4)
- 3.2 Katz's models of attitude and attitude change (K1, K2, K4)
- 3.3 Post purchase attitude change: cognitive dissonance theory and attribution theory (K1, K2, K4)
- 3.4 Marketing communication: Process of communication, barriers in communication (K1, K2, K4)
- 3.5 Types of communication systems, Source (K1, K2, K4)
- 3.6 Message and Medium of Communication (K1, K2, K4)

UNIT – IV: CONSUMERS IN THEIR SOCIAL AND CULTURAL SETTINGS [6 Hours]

- 4.1 Reference group: Nature, types and influences on consumers (K1, K2, K4)
- 4.2 Family life cycle stages, nature of household and purchases (K1, K2, K4, K5)
- 4.3 Family decision making and resolving conflict (K1, K2, K4)
- 4.4 Social class: Nature of social class, symbols of status (K1, K2, K4, K5)
- 4.5 Concept of money and social class (K1, K2, K4, K5)
- 4.6 Social class categories and consumer behaviour (K1, K2, K4, K5)

UNIT – V: CONSUMER DECISION MAKING

[6 Hours]

- 5.1 Consumer decision: Stages in consumer decision process - situational influence (K1, K2, K4)
- 5.2 problem recognition, information search, evaluation of alternatives (K1, K2, K4)
- 5.3 selection, outlet selection and purchase and post purchase action (K1, K2, K4)
- 5.4 Organizational Buyer: nature, market structure and pattern of demand (K1, K2, K4, K5)
- 5.5 characteristics, decision approach (K1, K2, K4, K5)
- 5.6 purchase pattern and organizational buyer decision process (K1, K2, K4, K5)

TEXT BOOK:

1. Kumar, A and Singh, K. (2013). Consumer Behaviour and Marketing Communication: An Indian Perspective 1st Edition. Dreamtech Press, New Delhi.

REFERENCES:

1. Schiffman LG and Kanuk LL (2007), Consumer Behaviour, 9th edition, Prentice-Hall of India Pvt Ltd, New Delhi, India
2. Batra Satish K and S.H.H. Kazmi (2004), Consumer Behaviour - Text and Cases, Excel Books, A-45, Naraina, Phase I, New Delhi, India.

SEMESTER VI

UCPYP22 - COMPULSORY PROJECT

Year/ Sem	Course Code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks 100
III / VI	UCPYP22	Compulsory project	practical	project	5	5	80+20=100

OBJECTIVE:

To equip students with professional competence based on their core subjects learnt.

CRITERIA: To complete these courses, the following are required to be completed before the semester examinations.

Sl. No	Activities	Marks
1	Field visits to any two of the following places: <ul style="list-style-type: none">● Mental Health Centre● Rehabilitation Centre● Special Education School● Orphanage● Old age Home To be submitted as reports	20
2	Create and conduct workshops (5 hours) <ul style="list-style-type: none">● Create two workshop modules that last for a duration of 1 – 2 hours each● Submit a workshop proposal consisting of : aim, objectives, venue, date, number of participants, tabulated program outline along with materials to be used (PPT, Videos, etc)	20
3	Peer Counselling and submission of one case conceptualization.	20
4	<ul style="list-style-type: none">● Conduct a simple research and submit their report Or <ul style="list-style-type: none">● Administer any assessment tool for a learning disability and submit a case report	20
5	Individual supervision for 3 hours	-
6	Group supervision for 10 hours	-
7	Record	20
	TOTAL	100

ASSESSMENT METHODS

FOR CORE AND ALLIED PAPERS:

Semester Examination (100 Marks)

Time: 3 Hours

Section A – 10 x 2 = 20 marks

Answer **all** questions

10 questions (2 questions from each unit)

Section B – 5 x 7 = 35 marks

Answer **all** questions

5 questions with internal choice (1 question from each unit)

Section C – 3 x 15 = 45 marks

Answer **any three** questions

5 questions (1 question from each unit)

CA Examination (50 Marks)

Time: 1 Hour 30 Minutes

Section A – 7 x 2 = 14 marks

Answer **all** questions

7 questions

Section B – 3 x 7 = 21 marks

Answer **any three** questions

3 out of 5 questions

Section C – 1 x 15 = 15 marks

Answer **any one** question

2 questions (1 question from each unit)

SEMESTER - I
USPEA122 - Practical - Yoga

Year : I Sem: I	Course Code: USPEA122	Title of the Course: Yoga	Course Type: Practical	Course Category: SBE	H/W 2	Credits 2	Marks 100
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Objective

To develop Strength, Flexibility and Relaxation in the body and to increase concentration and decrease anxiety, which leads to stronger academic performance.

Course Learning Outcomes (CLO)

The Learners will be able to

1. Improve personal fitness and helps in all round development of the body.
2. Experience the relationship between body, mind and spirit.
3. Promote and maintain Indian Yoga Tradition.
4. Become a basic yoga instructor.
5. Participate in yoga competition in the community.

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO 1	H	H	H	H	H	M
CO 2	H	H	H	H	M	M
CO 3	H	H	H	H	M	H
CO 4	H	H	H	M	H	M
CO 5	H	H	H	H	H	M

(Low - L, Medium - M, High - H)

COURSE SYLLABUS

Unit – I

History and Development of Yoga and Ashtanga Yoga The eight fold path.

The concept of Yoga – Meaning and definition of Yoga – Scope of Yoga –

Aims and objectives of yoga.

Practicals

Suriya Namaskar

Standing Asanas:

1. Tadasana
2. Trikonasana
3. Uttanasana or Padahasdasana
4. Virabhadrasana
5. Viruchikasana
6. Natarajasana
7. Ardha Baddha Padmottanasana

Unit – II

Sitting Asanas:

1. Padmasana
2. Dandasana
3. Vajrasana
4. Virasana
5. Baddhakonasana
6. Paschimottanasana
7. Matsyasana
8. Purana Bhujangasana
9. Ardha Matsyendrasana
10. Janu Siresasana

Unit – III

Supine Posture:

1. Navasana (Boat)
2. Uthanapadasana
3. Sarvangasana
4. Halasana

5. Chakrasana
6. Savasana

Unit – IV

Prone Posture:

1. Bhujangasana
2. Salabhasana
3. Dhanurasana
4. Ustrasana
5. Makrasana

Inversions and Back bends:

1. Halasana
2. Sarvangasana
3. Ustrasana
4. Chakrasana

Unit – V

Pranayama:

Four phases of breath - Pooraka, antara kumbaka, rechaka, bahya kumbaha (soonyaha).

Mudras :

Meaning of Mudra and benefits of mudra, Eight Traditional Types of Mudra

1. Gyan Mudra
2. Vayu Mudra
3. Agni Mudra
4. Prana Mudra
5. Surya Mudra
6. Varun Mudra
7. Apana Mudra
8. Shunya Mudra

Cognitive level: (K1,K2,K3,K4,K5)

Reference Books:

1. K. Chandran Shakar, “Yoga for Health” New Delhi, Khel Sathitya Kendra, 2007.
2. Raohana Yadav, Y.P.Yadav, “Art of Yoga”, New Delhi, Friends Publications, 2003.
3. Sri Ananda, “The Complete book of Yoga”. New Delhi, Orient Paperbacks, 2003.
4. B.K.S. Ayengar “The PATH TO holistic Health” New Delhi, 2001.
5. Seathi Chanchani, Rajivchanchani “Yoga for Children” New Delhi, UBSP Publishers, 2005.
6. “Mudras of India” by Cain Carrol and Revital Carrol, Singing Dragon Publisher , 2012.
7. “Mudras for Modern Life: Boost your health, re-energize your life” By Swami Saradananda, Watkins Publishing, 2016.

The Internal Evaluation (40 Marks) is based on the exercises.

The Semester Examination (60 Marks) is based on the practical examination (45 Marks), Record (10 Marks) and Viva Voce (5 Marks)

SEMESTER – I/II

UVEDA22 – VALUE EDUCATION

Year:I Sem: I/II	Course Code UVEDA22	Title of the Course Value Education	Course Type Theory	Course Category	H/W 1	Credits -	Marks -
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Course Objectives:

1. To understand good manners and etiquette
2. To identify their goals in life
3. Able to differentiate between love and infatuation

Course Outcomes

1. To develop good manners and learn to respect others.
2. To improve self-esteem and to set goals.
3. To enhance their emotional intelligence and to know about their importance.
4. To identify true friendship and differentiate between love and infatuation.
5. To acquire knowledge on counseling.

Course Syllabus

Unit I: Good Manners, Etiquette and Self Esteem

- 1.1 Introduction – Good Manners.
- 1.2 Respecting others – In Public Places, at Public Functions.
- 1.3 Cell Phone Etiquette
- 1.4 Self-Image and Self Esteem.
- 1.5 Basic Patterns of Self Esteem.
- 1.6 Impact of Self Esteem.

Unit II: Self Esteem and Goal Setting

- 2.1 Steps to improve Self Esteem.
- 2.2 Introduction to Goal Setting.
- 2.3 Seven Deadly Mistakes in Goal Setting.
- 2.4 Helpful Guidelines for Goal Setting.
- 2.5 The Three Steps for Setting Goals.
- 2.6 Steps to achieve Goals

Unit III: Emotional Intelligence

- 3.1 Introduction to Emotional Intelligence – The way to act and re-act.
- 3.2 Vital importance of EI.
- 3.3 Personal Competencies

- 3.4 Social Competencies.
- 3.5 Important Clarification on EQ and IQ.
- 3.6 Handling negative emotions.

Unit IV: Friendships and Love

- 4.1 Introduction – Friendships and Adolescence.
- 4.2 Dangerous Friendships – Right Friendships.
- 4.3 Characteristics of True Friendships.
- 4.4 Rules for Friendship
- 4.5 Introduction to Love and Infatuation – Understanding ‘Falling in Love’.
- 4.6 Infatuation vs Love

Unit V: Infatuation and Counseling

- 5.1 Dealing with Infatuation.
- 5.2 Dealing with attraction – Pursuing an attraction.
- 5.3 Counseling – Aims of counseling.
- 5.4 Types of counseling – Necessity of Counseling
- 5.5 Different Issues helped by Counselors.
- 5.6 Common concerns of Students –Counseling as a Help

Books for study:

Contribution from Team of Experts and edited by M.A. Joe Antony, SJ, Young and Happy: Values for life, Auxilium Publications, Vellore (2013)

Books for reference:

George Elizabeth FMA, Sebastian Elizabeth, FMA and Annie Lolia, FMA, Youthrill : A youth resource book for FMA Youth Animators, Volume 1, Youth Pastoral Sector, FMA India (2011)

Adukanil Mathew, SDB Runway to Success: A guide to success in studies, career and life, Arumbu Publications, Kilpauk, Chennai (2005)

Maurus J., Make the most of your Time, Better yourself Books, Bandra, Mumbai (1992)

Shinn George, The Miracle of Motivation: The Action Guide to Happiness and Success, Better yourself Books, Bandra, Mumbai (1985)

Furey J.Robert, Your are Good Enough: overcoming Feelings of inadequacy, Better yourself Books, Bandra, Mumbai (2002)

Youth Ministry – 2, Reconciliation, The way to the Father, DBYA Publications, New Delhi (1996)

Varkey C.P. SJ, Are you a winner or a loser?: Psychology for the young and the old, Better yourself Books, Bandra, Mumbai (2006)

Kopmeyer M.R., Here’s Help, Universal Book Stall, New Delhi (1992)

SEMESTER – III/IV

UVEDA22 – VALUE EDUCATION

Year: II Sem: III/IV	Course Code UVEDA22	Title of the Course Value Education	Course Type Theory	Course Category	H/W 1	Credits -	Marks -
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Course Objectives:

1. To identify and apply the strategies to solve conflicts.
2. To understand the sources of stress and management.
3. To develop leadership and time management skills.
4. To understand the social responsibility that benefits the society.
5. To understand the human impact on nature and to protect the ecosystem.

Course Outcomes:

1. Understand the reasons of conflict and how to respond to conflicts.
2. Acquire the knowledge of Media and its safe usage.
3. Develop the ability to handle stress in various situations.
4. Understand the importance of managing time for a successful career.
5. Develop various leadership skills to work together and achieve goals.
6. Gaining knowledge about social responsibility and to fulfill the civic duties to benefit the society.
7. Analyse the environmental influences on our day to day living and to care for the environment.

Unit I: Conflict Management

- 1.1 Introduction - Reasons for Conflict
- 1.2 Nature of Conflicts
- 1.3 Conflict Management – Conflict Management Styles
- 1.4 Responses to Conflict Situations
- 1.5 Conflict Resolution Strategies

Unit II: Stress and Media Management

- 2.1 Meaning of Stress– Symptoms of Stress
- 2.2 Hidden Causes of Stress
- 2.3 Steps to manage Stress
- 2.4 Introduction – Media in India
- 2.5 Understanding Mass Media - Managing Media

Unit III: Leadership and Time Management

- 3.1 Introduction to Leadership
- 3.2 Traits of Good Leaders

- 3.3 Creating Personal Leadership Plans
- 3.4 Introduction to Time Management
- 3.5 Five steps to successful Time Management

Unit IV: Social Responsibility

- 4.1 Components of Justice - Five types of Justice
- 4.2 Issues connected to Social Justice – In the world – In India
- 4.3 Social Analysis - Agents of Social Transformation
- 4.4 Strategies to be adopted for Social Justice
- 4.5 Social Justice as an Inter Religious Project

Unit V: Caring for Nature

- 5.1 Introduction
- 5.2 Ecological Crisis
- 5.3 Caring for Environment
- 5.4 Experience Nature
- 5.5 Steps to care for nature – as Individuals, as groups

Books for study:

Contribution from Team of Experts and edited by M.A. Joe Antony, SJ, Young and Happy: Values for life, Auxilium Publications, Vellore (2013)

Books for reference:

George Elizabeth, FMA, Sebastian Elizabeth, FMA and Annie Lolia, FMA, Youthrill : A youth resource book for FMA Youth Animators, Volume 1, Youth Pastoral Sector, FMA India (2011)

Adukanil Mathew, SDB Runway to Success: A guide to success in studies, career and life, Arumbu Publications, Kilpauk, Chennai (2005)

Maurus J., Make the most of your Time, Better yourself Books, Bandra, Mumbai (1992)

Shinn George, The Miracle of Motivation: The Action Guide to Happiness and Success, Better yourself Books, Bandra, Mumbai (1985)

Youth Ministry – 2, Reconciliation, The way to the Father, DBYA Publications, New Delhi (1996)

Varkey C.P. SJ, Are you a winner or a loser?: Psychology for the young and the old, Better yourself Books, Bandra, Mumbai (2006)

Koikara Felix, Heal the World: Sessions on Justice and Peace, Better Yourself Books, Bandra, Mumbai (2002)

All rights for all: sessions for Human Rights Education, Margaret Mathai, FMA & Felix Koikara, SDB, Better Yourself Books, Bandra, Mumbai (2008)

SEMESTER – V/VI

UVEDA22 – VALUE EDUCATION

Year:III	Course	Title of the	Course	Course	H/W	Credits	Marks
Sem: V/VI	Code UVEDA22	Course Value Education	Type Theory	Category	1	2	60

Course Objective

1. To impart the knowledge of sexuality and awareness of its Pros and Cons.
2. To give the students the understanding of marriage, family life and its challenges.
3. To create awareness of women's' health and its importance.
4. To familiarize women about their rights and to know their responsibilities.
5. To enhance the students to experience quality happiness and the essence of spirituality.

Course Outcome

1. To get a clear idea about sexuality
2. To understand about the importance of marriage and family life.
3. To become conscious about their health and to practice healthy habits.
4. To be aware about the rights and responsibilities of women.
5. To know the beauty of happiness and to taste the love of God and practice inter- religious harmony.

Unit I

- 1.1 Introduction of Sexuality – Difference of male and female hormones
- 1.2 Sexual Organs – Reproductive system
- 1.3 Child birth – Sexual activity
- 1.4 Introduction to Marriage – Types of Marriages
- 1.5 Need for successful marriage
- 1.6 Tips for marriage to be successful

Unit II

- 2.1 Reasons for failure in marriages
- 2.2 Increase in divorce rates – Dowry
- 2.3 Introduction to families – Major functions of families
- 2.4 Kinds of families – Family stages and tasks
- 2.5 Bringing up children
- 2.6 Effective parenting – Family planning

Unit III

- 3.1 Introduction –Health problems during adolescence
- 3.2 Healthy habits of teenagers – Health tips
- 3.3 Signs and Symptoms of anemia in teens
- 3.4 Premenstrual Syndrome
- 3.5 Uterine Fibroids
- 3.6 Breast cancer – Cervical cancer

Unit IV

- 4.1 Introduction – The constitution of India
- 4.2 Legal provisions
- 4.3 Special initiatives for women
- 4.4 Women in India today
- 4.5 Marriage – child marriage – dowry – divorce – inheritance
- 4.6 Responsibility of educated women in India

Unit V

- 5.1 Introduction to happiness – Beauty of happiness
- 5.2 Reason for importance of happiness
- 5.3 Causes for real happiness – Major factors contribute to happiness
- 5.4 Introduction to Religion – Inter-religious dialogue
- 5.5 Forms of dialogue
- 5.6 Reflection – means of nurturing Inter-religious harmony

Books for study:

Contribution from Team of Experts and edited by M.A. Joe Antony, SJ, Young and Happy: Values for life, Auxilium Publications, Vellore (2013)

Books for reference:

Smalley, Cary, The joy of Committed Love: A Handbook for wives, Better yourself Books, Bandra, Mumbai(2003)

Fisher, Cart Kathleen and Hart N. Thomas, Early Years of Marriage: Foundations for a life together, Bettter Yourself Books, Bandra, Mumbai(1999)

George, Elizabeth,FMA, Sebastian Elizabeth, FMA and Annie Lolia, FMA, Youthrill : A youth resource book for FMA Youth Animators, Volume 1, Youth Pastoral Sector, FMA India (2011)

Adukanil, Mathew, SDB Runway to Success: A guide to success in studies, career and life, Arumbu Publications, Kilpauk, Chennai (2005)

Shinn, George, The Miracle of Motivation: The Action Guide to Happiness and Success, Better yourself Books, Bandra, Mumbai (1985)

Varkey C.P. SJ, Are you a winner or a loser?: Psychology for the young and the old, Better yourself Books, Bandra, Mumbai(2006)

Koikara Felix, Heal the World: Sessions on Justice and Peace, Better Yourself Books, Bandra, Mumbai (2002)

Margaret Mathai, FMA & Felix Koikra, SDB. All rights for all: sessions for Human Rights Education, Better Yourself Books, Bandra, Mumbai (2008)

SEMESTER II

(M.A./M.Sc./M.Com./M.B.A./M.S.W)

PNHRA22 – HUMAN RIGHTS

Year: I	Course Code:	Title of the Course:	Course Type:	Course Category:	H/W	Credits	Marks
Sem: II	PNHRA22	Human Rights	Theory		2	2	100

Course Objectives:

1. To provide a perspective and foundation for a human rights culture among students.
2. To create awareness on the Indian legal system, rule of law and human rights perspective in India.
3. To equip students with knowledge about the human rights movements and new rights gained.

Course Learning Outcome:

After completion of the course the students will be able to attain the following Outcomes,

1. Obtain knowledge and understand about fundamental human rights
2. Understanding of the concepts of Indian constitution and to emphasize the importance of them.
3. Promote knowledge in understanding the concept of human rights and its significance to the present scenario
4. Able to sensitize students for the application of human rights to the various practice domains of the different profession
5. Develop an Understanding on Human Right based on different cultural aspects.
6. Promote awareness on the Indian legal system, rule of law, human rights related movements

Unit I: Introduction to Human Rights

- 1.1 Human Rights – Introduction
- 1.2 Meaning and definition
- 1.3 Origin and Development
- 1.4 Elements of Human Rights
- 1.5 Kinds of Human Rights -Civil and Political rights
- 1.6 Social ,Economic & Cultural rights

Unit II: Indian Constitution and Human Rights

- 2.1 Indian Constitution -Meaning- Definition, Classification
- 2.2 Features of India Constitution, Federalism
- 2.3 Preamble, Fundamental Rights
- 2.4 Directive Principles of State policy
- 2.5 Right to constitutional Remedies, PIL, Different Courts

2.6 Constitution of Human Rights Court, Right to Information Act, 2005(RTI)

Unit III: Universal Declaration and International Covenants on Human Rights

- 3.1 Universal declaration – Meaning & concepts
- 3.2 Provisions of universal declaration of Human Rights
- 3.3 Effects and influence of Universal Declaration
- 3.4 Distinction between the Indian constitution and Universal Declaration
- 3.5 International covenants on civil & Political Rights ,1966 (ICCPR)
- 3.6 International covenants on Economic, social and cultural rights, 1966 (ICESCR)

Unit IV: United Nations and Human Rights

- 4.1 Provisions relating to human rights under UN charter
- 4.2 Through principal organs, UN Commission on Human Rights
- 4.3 UN charter based institutions, UN specialized Agencies
- 4.4 Human Rights and Domestic Jurisdiction
- 4.5 United Nation Convention against Torture (UNCAT)
- 4.6 Convention on the Protection of the Migrant Workers

Unit V: Human Rights and Different Policies

- 5.1 Anti-Human Trafficking and Protection of Human Rights Act,1993
- 5.2 Policies and Acts, National Policy for Children 2013, Juvenile Justice Act 2000,
- 5.3 POCSO Act 2012, Criminal Procedure and Amendment Act 2013,
- 5.4 National Policy for Empowerment of women 2001, The Sexual Harassment of Women at Workplace Act 2013,
- 5.5 National Human Rights commission, State Human Rights Commission
- 5.6 Farm Bill 2020, CAA,NRC,NPR, New Educational Policy 2020.

Reference Items: Books, Journal

- 1. Protection of Human Rights Act, 1993.
- 2. Constitutional Law of India (3 Volumes) by Seervai H.M 2015
- 3. The Human Rights Watch Global Report On Women's Human Rights 2000 Oxford Publication
- 4. RS Sharma Perspectives In Human Rights Development
- 5. Julies Stone Human Law And Human Justice 2000 Universal Publication
- 6. Research Handbook On International Human Rights Law, Edited By Sarah Joseph & Edited By Sarah Joseph, Edward Elgar Publishing Limited USA

SEMESTER - III

PGTRA22 - TEACHING AND RESEARCH APTITUDE

Year: II Sem: III	Course Code PGTRA22	Title of the Course Teaching and Research Aptitude	Course Type Theory	Course Category	H/W 3	Credits 3	Marks 40+60 =100
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Unit I – Teaching and Research Methodology

- 1.1 Teaching : Nature, objectives, characteristics and basic requirements
- 1.2 Learner’s Characteristics
- 1.3 Factor’s affecting teaching, methods of teaching, Teaching aids and Evaluation System
- 1.4 Research, meaning, characteristics and types
- 1.5 Steps of research and methods of research
- 1.6 Paper, article, workshop, conference and symposium, thesis writing, its Characteristics and format

Unit II – Reading Comprehension and Communication

- 2.1 Reading Comprehension
- 2.2 Passage to be set with questions to be answered
- 2.3 Communication, its nature, characteristics and objectives
- 2.4 Types and barriers of communication
- 2.5 Effective classroom communication
- 2.6 Mass media and society

Unit III – Reasoning ability and Data Interpretation

- 3.1 Number series and Letter Series
- 3.2 Codes, Relationships and Classification
- 3.3 Verbal Analogies, Inductive and Deductive Reasoning
- 3.4 Sources, acquisition and interpretation of data
- 3.5 Quantitative and Qualitative data
- 3.6 Graphical representation and mapping of data

Unit IV – Information and Communication Technology

- 4.1 General abbreviations in ICT
- 4.2 ICT – Terminologies
- 4.3 Basics of Internet and Intranet
- 4.4 Basics of E-mail – Audio and Video conferencing
- 4.5 Digital Initiatives in Higher Education
- 4.6 ICT and Governance

Unit V – People Development and Environment

- 5.1 Development and Environment
- 5.2 Human and environment interaction
- 5.3 Environmental issues
- 5.4 Natural and energy resources
- 5.5 Natural hazards and disasters
- 5.6 Environmental Protection Act and Action Plan



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 6.

1.3 Curriculum Enrichment

1.3.2 Number of Certificate/Value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala / NPTEL and other recognized platforms where the students of the institution have enrolled and successfully completed during the last five years.

Syllabus – Value Added Courses

S.No.	Value Added Course Names
1	Cottage Industries
2	Tamil Cultural Culinary Arts
3	Tamil for Competitive Examinations (TNPSC)
4	Inclusive Commerce and Governance for Sustainability
5	Application of Data Analytics
6	Learning Open-Source Simulation Software - SCILAB
7	Fundamentals of Data Analytics
8	Fashion Designing
9	Entrepreneurial Skills in Botany
10	Digital Marketing
11	Intellectual Property Rights
12	Sustainable Development Goals
13	Application of Business Analytics using Advanced Excel ,Python and Tableau
14	Class Based Programming
15	Software Development Framework Using Core MVC
16	Web Framework for Data Science
17	Mobile Application Development
18	Portrayal Of Art

Department of Chemistry

Value-Added Course

VACCHCI22 - COTTAGE INDUSTRIES

Code	Title of The Paper	Hours
VACCHCI22	Cottage Industries	30

Learning Objectives:

- To teach basic skills in needle work, hand embroidery, paper craft and baking.
- To impart skills for preparing household small-scale products.
- To enable the students to initiate start-ups for employment.

Course Learning Outcomes:

CLO1: The students will develop skills in hand embroidery, bead work and mirror work.

CLO2: The students will be able to bake cookies, bread and cakes.

CLO3: The students will be able to prepare house hold small scale products such as soap, phenyl, herbal oil, mosquito repellent and dish washing powder.

CLO4: The students will be able to initiate start-ups for employment.

CLO5: The students will learn the art of packing, branding and marketing.

Unit 1: Embroidery and Needle work

(6 hours)

Motif –Meaning, types, placement. Hand Embroidery: Introduction tools and equipments. Basic stitches of Hand embroidery- Techniques and Applications. Types of stitches – Back stitch, chain stitch, stem stitch, feather stitch, fish hole stitch, cross stitch and satin stitch. Basics in bead work and mirror work.

Unit 2: Baking

(6 hours)

Basic baking ingredients – Essential equipment and uses. Characteristics and functions of flour, sugar, eggs and milk Products, leavening agents, chocolate and cocoa, salt, spices and flavourings in the baking of cakes. Textures and decoration of cakes. Yeast - raised products – White bread and Wheat bread. White dinner rolls – Basic sweet dough. Cookies – Drop cookies – Rolled cookies – Bar cookies.

Unit 3: Paper Craft

(6 hours)

Different types of Paper craft- Flower craft, wall hangings, decorative paper work, Paper bags, card making and origami.

Unit 4: Small Scale Products

(6 hours)

Preparation of household products: Phenyl, Soap and Shampoo – Basic ingredients, method of preparation, packing and marketing.

Unit 5: Small Scale Products

(6 hours)

Herbal hair growth oil, Herbal Mosquito repellent and dish wash powder: Collection and storage of raw materials, preparation, packing and marketing.

தமிழ்த்துறை

VACTACE22 - TAMIL FOR COMPETITIVE EXAMINATIONS (TNPSC)

Code	Title of paper	Hours
VACTACE22	Tamil for Competitive Examinations (TNPSC)	30

கற்றலின் வெளிப்படுத்திறன்

1. தமிழ் இலக்கியத்தின் வாயிலாக போட்டித் தேர்வுக்கு மாணவிகளை ஆயத்தப்படுத்துதல்
2. போட்டித் தேர்வினை எதிர்க்கொண்டு வேலை வாய்ப்பினை பெற வழிவகுத்தல்
3. தன்னம்பிக்கையுடன் வாழ வழி செய்தல்

அலகு - ஒன்று

(6 மணி நேரம்)

இலக்கியங்கள்

1. திருக்குறள் தொடர்பான செய்திகள், மேற்கோள்கள், தொடரை நிரப்புதல் (இருபத்தைந்து அதிகாரம் மட்டும்) அன்பு, பண்பு, கல்வி, கேள்வி, அறிவு, அடக்கம், ஒழுக்கம், பொறை, நட்பு, வாய்மை, காலம், வலி, ஒப்புரவறிதல், செய்நன்றி, சான்றாண்மை, பெரியாரைத் துணைக்கோடல், பொருள் செயல்வகை, வினைத்திட்டம், இனியவை கூறல், ஊக்கமுடைமை, ஈகை, தெரிந்து செயல்வகை, இன்னா செய்யாமை, கூடா நட்பு, உழவு.
2. அறநூல்கள் - நாலடியார், நாண்மணிக்கடிகை, பழமொழி நானூறு, முதுமொழிக்காஞ்சி, திரிகடுகம், இன்னா நாற்பது, இனியவை நாற்பது, சிறுபஞ்ச மூலம், ஏலாதி, ஒளவையார் பாடல்கள் தொடர்பான செய்திகள், பதினெண்கீழ்க்கணக்கு நூல்களில் பிற செய்திகள்.
3. கம்பராமாயணம், இராவண காவியம் தொடர்பான செய்திகள், பாவகை, சிறந்த தொடர்கள்.
4. புறநானூறு, அகநானூறு, நற்றிணை, குறுந்தொகை, ஐங்குறுநூறு, கலித்தொகை தொடர்பான செய்திகள், மேற்கோள்கள், அடிவரையறை, எட்டுத்தொகை, பத்துப்பாட்டு நூல்களில் உள்ள பிற செய்திகள்.
5. சிலப்பதிகாரம்-மணிமேகலை தொடர்பான செய்திகள், மேற்கோள்கள், சிறந்த தொடர்கள், உட்பிரிவுகள் மற்றும் ஐம்பெரும் - ஐஞ்சிறு காப்பியங்கள் தொடர்பான செய்திகள்.
6. பெரிய புராணம்- நாலாயிர திவ்வியப்பிரபந்தம் - திருவிளையாடற் புராணம் - தேம்பாவணி - சீறாப்புராணம் தொடர்பான செய்திகள்.

அலகு - இரண்டு

(6 மணி நேரம்)

இலக்கியங்கள்

1. சிற்றிலக்கியங்கள்

திருக்குற்றாலக்குறவஞ்சி - கலிங்கத்துப்பரணி - முத்தொள்ளாயிரம், தமிழ்விடு
தூது - நந்திக்கலம்பகம் - முக்கூடற்பள்ளு - காவடிச்சிந்து - முத்துக்குமாரசாமி
பிள்ளைத்தமிழ் - இராஜ ராஜ சோழன் உலா - தொடர்பான செய்திகள்.

2. மனோன்மணியம் - பஞ்சாலி சபதம் - குயில் பாட்டு - இரட்டுற மொழிதல்
(காளமேகப் புலவர்) - அழகிய சொக்கநாதர் தொடர்பான செய்திகள்.
3. நாட்டுப்புற பாட்டு - சித்தர் பாடல்கள் தொடர்பான செய்திகள்.
4. சமய முன்னோடிகள் - அப்பர், சம்பந்தர், சுந்தரர், மாணிக்கவாசகர், திருமூலர்,
குலசேகர ஆழ்வார், ஆண்டாள், சீத்தலைச் சாத்தனார், எச்.ஏ. கிருட்டிணனார்,
உமறுப்புலவர் தொடர்பான செய்திகள், மேற்கோள்கள், சிறப்புப் பெயர்கள்.

அலகு - மூன்று

(6 மணி நேரம்)

இலக்கணம்

1. பொருத்துதல் - பொருத்தமான பொருளைத் தேர்வு செய்தல், புகழ் பெற்ற நூல்,
நூலாசிரியர்.
2. தொடரும் தொடர்பும் அறிதல் (அ) இத்தொடரால் குறிக்கப்படும் சான்றோர்
(ஆ) அடைமொழியால் குறிக்கப்படும் நூல்.
3. பொருந்தாச் சொல்லைக் கண்டறிதல்.
4. பிழைதிருத்தம் - சந்திப்பிழை நீக்குதல், ஒருமை பன்மை பிழைகளை நீக்குதல்,
மரபுப் பிழைகள், வழுஉச் சொற்களை நீக்குதல், பிறமொழிச்சொற்களை
நீக்குதல்.
5. ஆங்கிலச் சொல்லுக்கு நேரான தமிழ்ச் சொல்லை அறிதல்.
6. ஒலி வேறுபாடறிந்து சரியான பொருளை அறிதல்.
7. ஒரெழுத்து ஒரு மொழிக்கு உரிய பொருளைக் கண்டறிதல்.
8. வேர்ச்சொல்லைத் தேர்வு செய்தல்.
9. வேர்ச்சொல்லைக் கொடுத்து, வினைமுற்று, வினையெச்சம்,
வினையாலணையும் பெயர், தொழிற் பெயரை உருவாக்கல்.
10. அகர வரிசைப்படி சொற்களைச் சீர்செய்தல்.
11. சொற்களை ஒழுங்குபடுத்தி சொற்றொடர் ஆக்குதல்
12. பெயர்ச்சொல்லின் வகை அறிதல்
13. இலக்கணக் குறிப்பறிதல்
14. விடைக்கேற்ற வினாவைத் தேர்ந்தெடுத்தல்
15. எவ்வகை வாக்கியம் எனக் கண்டெழுதுதல்
16. தன்வினை, பிறவினை, செய்வினை, செயப்பாட்டுவினை, வாக்கியங்களை
கண்டெழுதுதல்.

17. உவமையால் விளக்கப்பெறும் பொருத்தமான பொருளைத் தேர்ந்தெழுதுதல்
18. எதுகை மோனை, இயைபு இவற்றுள் ஏதேனும் ஒன்றை தேர்ந்தெழுதுதல்
19. பழமொழிகள்

அலகு - நான்கு

(6 மணி நேரம்)

தமிழ் அறிஞர்களும் தமிழ்த் தொண்டும்

1. பாரதியார், பாரதிதாசன், நாமக்கல் கவிஞர், கவிமணி தேசிக விநாயகனார், தொடர்பான செய்திகள், சிறந்த தொடர்கள் சிறப்புப் பெயர்கள்
2. மரபுக் கவிதை - முடியரசன், வாணிதாசன், சுரதா, கண்ணதாசன், உடுமலை நாராயண கவி, பட்டுக்கோட்டை கல்யாண சுந்தரம், மருதகாசி தொடர்பான செய்திகள், அடைமொழிப் பெயர்கள்
3. புதுக்கவிதை - ந. பிச்சமூர்த்தி, சி.சு. செல்லப்பா, தருமு சிவராமு, பசுவய்யா, இரா. மீனாட்சி, சி.மணி, சிற்பி, மு. மேத்தா, ஈரோடு தமிழன்பன், அப்துல்ரகுமான், கலாப்பிரியா, கல்யாணஜீ, ஞானக்கூத்தன், - தொடர்பான செய்திகள், மேற்கோள்கள், சிறப்புத் தொடர்கள்.
4. தமிழில் கடித இலக்கியம் - நாட்குறிப்பு, ஜவகர்லால் நேரு, மகாத்மா காந்தி, மு.வரதராசனார், பேரறிஞர் அண்ணா, தொடர்பான செய்திகள்
5. நிகழ்கலை (நாட்டுப்புற கலைகள்) தொடர்பான செய்திகள்
6. தமிழில் சிறுகதைகள் தலைப்பு - ஆசிரியர் - பொருந்துதல்
7. கலைகள் - சிற்பம் - ஓவியம் - பேச்சு - திரைப்படக்கலை தொடர்பான செய்திகள்
8. தமிழின் தொன்மை - தமிழ்மொழியின் சிறப்பு, திராவிட மொழிகள் தொடர்பான செய்திகள்
9. உரைநடை - மறைமலை அடிகள் பரிதிமாற்கலைஞர், ந.மு.வேங்கடசாமி நாட்டார் ரா.பி.சேதுப்பிள்ளை
10. தமிழ்பணி தொடர்பான செய்திகள்

அலகு - ஐந்து

(6 மணி நேரம்)

தற்கால நடப்பு நிகழ்வுகள்

1. நடப்பாண்டில் வழங்கப்படும் விருதுகள்
2. நடப்பாண்டில் வெளியிடப்படும் நூல்கள்
3. நடப்பாண்டில் விளையாட்டு நிகழ்வுகள்
4. நடப்பாண்டில் அரசியல் நிலவரங்கள்
5. நடப்பாண்டில் பொருளாதார மாற்றங்கள்

தமிழ்த் துறை
Value-Added Course

சமையல் நுண்கலை – பாடத்திட்டம்

VACTATC22 – TAMIL CULTURAL CULINARY ARTS

Code	Title of paper	Hours
VACTATC22	Tamil Cultural Culinary Arts	30

கற்றலின் வெளிப்படுத்திறன்

- மனிதரின் அடிப்படைத் தேவைகளில் ஒன்றான உணவை சுவையுள்ளதாகவும், ஆரோக்கியமானதாகவும் சமைப்பதின் அவசியத்தை அறியச் செய்தல்.
- சமையல் கலை கற்பிப்பதன் மூலமாக மாணவிகளுக்கு சுய வேலைவாய்ப்பை ஏற்படுத்த உணக்கமளித்தல். சமையல் தொடர்பான வேலைவாய்ப்பு அறிமுகம் செய்தல்.
- சமையல் கலையை சமூக வரலாற்று தொடர்பு சாதன நோக்கில் அறிய செய்து சமையல் கலையில் உள்ள கருத்தாக்கங்களை மறுமதிப்பிடு செய்யவைத்தல்.

அலகு - ஒன்று

சமையல் கலை – அறிமுகம்

(2 மணி நேரம்)

சமையல் குறித்த அறிமுகம் – வரலாறு – உணவு பொருட்கள் அறிமுகம்- அவற்றின் பண்புகளும் - அடிப்படை தயாரிப்புகள்- சமையல் அறை பாதுகாப்பு.

செயல் முறை வகுப்பு – 1

(3 மணி நேரம்)

தமிழர் இயற்கை உணவு வகைகள் பழங்களை ரசங்களை செய்தல்.

அலகு – இரண்டு

பல்வேறு உணவு வகைகள்

(2 மணி நேரம்)

உணவு உற்பத்தியின் அடிப்படை கோட்பாடுகள் - இந்திய உணவு வகைகள்- முதன்மையான உணவு - தானிய உணவு - காய்கறி உணவு - முட்டை வகை உணவு - பழச்சாறு வகைகள் - குளிர்பானங்கள் - சாண்ட்விச் மற்றும் மில்க் ஷேக்.

செயல் முறை வகுப்பு - 2

(3 மணி நேரம்)

உணவிற்கான இடம் தயாரிப்பு, தானிய உணவு வகைகள், காய்கறி உணவு வகைகளை செய்ய சொல்லிதருதல்.

அலகு – மூன்று ஆரோக்கியமான உணவு முறைகள்

(3 மணி நேரம்)

தமிழ் மருத்துவ உணவு – பழக்கவழக்கங்கள் - பதப்படுத்துதல் – விழிப்புணர்வு - சரிவிகித உணவு – உணவு உட்கொள்ளும் முறை - பாரம்பரிய சிறுதானிய உணவு

செயல் முறை வகுப்பு - 3

(4 மணி நேரம்)

கஷாயம், துவையல், மசியல், பச்சடி, சாமை, திணை கேசரி, கேழ்வரகு அடை, கொழுக்கட்டை, உளுந்து புட்டு, சுசீயம், வல்லாரை, தூதுவளை, கறிவேப்பிலை பொடி தயாரிப்பு.

அலகு - நான்கு பெண்களும் உணவும்

(3 மணி நேரம்)

பெண்களின் வாழ்வும் உணவும்(மாதவிடாய், கருத்தறித்தல், மகப்பேறு கால உணவுகள்)- உடல்நலமும் உணவும் - சமையலறை மேலாண்மை - உணவுப் பொருட்கள் வாங்குவதை திட்டமிடல் - பராமரிப்பு மற்றும் பாதுகாத்தல் - அலங்காரப்படுத்துதல் .

செயல் முறை வகுப்பு - 4

(4 மணி நேரம்)

உணவு வகைகளை திட்டமிட அலங்காரிக்க சொல்லித்தருதல்

அலகு - ஐந்து உணவு மற்றும் சமூக கலாச்சாரம்

(3 மணி நேரம்)

சமூக கட்டமைப்பு உணவு வகைகள் - சமையலும் பாரம்பரிய அறிவும் - பாலின சமத்துவமும் சமயல் கலையும் - சமையலும் திரைப்படமும் - சமையல் குறிப்பு எழுதுதல்.

செயல் முறை வகுப்பு - 5

(3 மணி நேரம்)

உணவு குறித்த களஆய்வு நேர்காணல் விழிப்புணர்வு முகாம்.

பார்வை நூல்கள்

1. தமிழர் உணவு – பக்தவச்சல பாரதி, காலச்சுவடு பதிப்பகம், 2011
2. சமையல் நுண்கலை- நெம்மேலி இந்திரா காசிநாதன் - மதிநிலை பதிப்பகம், சென்னை 2013
3. இதயநோய் முதல் செரிமான நோய்வரை உணவு மருத்துவம் – டாக்டர் சு. நரேந்திரன், கற்பகம் புத்தகாலயம், 2010
4. கிராமத்து சமையல் – ர. கன்னிகா, டிஸ்கவரி புக் பேலஸ், 2018
5. சமையல்கலை - சீதாலட்சுமி, பாரதி பதிப்பகம்,
6. சிறுதானிய சமையல் மற்றும் சாறுகள் – ராதா சீனிவாசன், கற்பகம் புத்தகாலயம், 2014
7. தமிழர் நாகரீகமும் பண்பாடும் – அ. தட்சிணாமூர்த்தி, யாழ் வெளியீடு, 1999
8. வீட்டிற்கு தேவையான விதவிதமான சமையல் சைவம் – வசந்தியம்மாள், மயிலவன் பதிப்பகம், 2014
9. வெயிலுக்கு இதழுட்டும் சாலட், பச்சடி வகைகள் – பா. எழில்செல்வி, 2012
10. அன்றாட பாரம்பரிய சமையல் – ராசாமணி சண்முக சுந்தரம், பழனியப்பா பிரதர்ஸ் பதிப்பகம், 2020

Department of Commerce
Value-Added Course
VACCOGS22 - INCLUSIVE COMMERCE AND GOVERNANCE FOR
SUSTAINABILITY - GLOBAL TRENDS

Code	Title of The Paper	Hours
VACCOGS22	Inclusive Commerce And Governance For Sustainability - Global Trends	30

Course Learning Outcomes:

- Understand the role of business in the transition to sustainable development to create a prosperous future for all.
- Providing Sustainable Financial Literacy to young people with an opportunity to participate in the global development and nation building process.
- To initiate and participate in a service-learning programme through economic literacy
- Providing practical experience on climate finance, Grassroot experiential learning workspace
- Demonstrate Individual contributions to a Collaborative Team Case

Course Outline:

The Curriculum is prepared to have the United Nations Sustainable Development Goals as a base to emphasize the knowledge of Commerce & Business among young people to engage and evolve in the developmental process

Unit I

International Monetary Fund & Sustainable Development Goals - People –Fostering Inclusion – Prosperity–Growth-Job and Poverty Reduction – Planet - Engaging in Climate Action – Peace-Strengthening Governance and Tackling Corruption – Partnerships - Financing the SDGs (Practical and Cases)

Unit II

Diving into goals – Quality Education for a Financially Literate Society – An Insight – Gender-based Financial Liberty – Income Inequality – Outcome Based Experiential learning and Community Immersion – Entrepreneurs Talk series.

Unit III

Global Trends for Business and Society – Environment and Social Consumerism – Carbon footprint – Reuse-Reduce-Recycle – Climate Finance Awareness – Introduction and Indulgence with Global Lectures/Speakers.

Unit IV

Experiential Learning on Policy Making - Policy Maker - Model Finance Ministry - Budget Planning - Industry - Trade - Commerce & Business - Skill Development

Unit V

Sustainable Business - Business Plan Making and Contest – Project submission- Monitoring & Evaluation – Project Pitching & Presentation - Practical Learning on Seed Funds- Venture Capitalism

Course Delivery Mode: Blended (Online-Offline)

**Sessions and schedules will be altered based on the participants and the Institution's timeline/needs*

**Support and facilitation will be provided by various intergovernmental organisations and youth networks*

Methodology:

Brainstorming | Experiential Learning, Field Visits & Projects | Storytelling | Group Discussion | Paper presentation | Case Studies | Lectures | Impact Stories | Practitioners View | Policy Papers

Department of Mathematics (PG)

Value-Added Course

**VACMAAD22 - APPLICATION OF DATA ANALYTICS USING ADVANCED EXCEL,
R AND TABLEAU**

Code	Title of The Paper	Hours
VACMAAD22	Application of Data Analytics using Advanced Excel, R and Tableau	30

Course Objectives

The course will develop the skills necessary to do Data Analytics (Bivariate and Multivariate Techniques also real time projects along with case study). Augmented with case studies, lectures, and research notes, course aims to deepen the understanding of methods for collecting, analysing, and summarizing data pertinent to solving Data problems.

Course Learning Outcomes

- Students can do their final year projects on their own. Students can build their carrier into Data Scientist and Analytics stream.
- Students can become Freelancer by doing Data Analyst or Analytics projects to outsider, this is applicable only if students who are really interested in this stream.

Course Syllabus

Unit I: Data Analytics Introduction and Data Analytics Using Advanced MS Excel – Hands-On (10 Hours)

1.1 Data Analytics Introduction - Data Analytics Brief - Data Statistics - Descriptive and Inferential - Data Visualization - Data Analytics Algorithm in Detail - Supervised Learning Algorithm - Unsupervised Learning Algorithm - Reinforcement Learning Algorithm - Data Analytics Importance and Key challenges - Life of Data Analytics Expert - Data Analytics Application.

1.2 Descriptive Statistics using Advanced Excel: Central Tendency - Mean - Median, Mode, Percentiles and Quartiles - Dispersion - Variance, Standard Deviation and Range - Interquartile Range - Numerical Measures -Detecting Outliers. Data Visualisation Using Excel: Graphs - Charts - create a chart and change chart type - switch row/column and chart title - legend

position and data labels - column chart, line chart, pie chart and bar chart - area chart, scatter chart, trend line.

1.3 Correlation: Correlation Analysis - Formulation of Correlation Matrix - Mapping Correlation concept with Real Time Example. Regression - Linear Regression Analysis - Formulation of Regression Model - Bivariate Regression - Multiple Regressions - Conducting Multiple Regression - Mapping Bivariate Regression with Real Time Example.

1.4 Pivot Table and Pivot Chart: Inserting a PivotTable - Choosing Fields and Sort Data - Two-Dimensional Pivot Table - Data Table -insert a table and sort a table - filter a table and total row. Pivot Chart - Group Pivot Table Items - Multi - level Pivot Table - Frequency Distribution - Pivot Chart and Slicers - Update Pivot Table - Calculated Field/Item - T-Test - Parametric Test - T –test (One and Two - Sample - Z - test (One and Two Sample) - F – Test (One and Two Sample).

1.5 Statistical Functions: Average function and average if function - Median, mode and standard deviation - Min function, max function, large and small function - Negative numbers to zero, random numbers and rank - Percentiles and quartiles forecast and trend. Logical Function - If function, and function and or function - nested if and roll the dice.

1.6 Lookup Function: Vlookup function and Hlookup functions - match and index and choose, text rates and offset - left lookup and two-way lookup, locate maximum value and indirect - Formula Error - ##### error, #name? Error and #value! Error - #div/0! Error and #ref! Error, iferror and iserror - Circular reference and formula auditing and floating-point errors.

1.7 Data Validation and Data Table: create data validation rule and input message and error alert - data validation result and rejection of invalid dates - budget limit and prevent duplicate entries - product codes and drop-down list, dependent drop-down list. Compatibility Function - Scenario Manager - Create Scenario using Scenario Manager - Using the Scenario Summary - Using Goal seek Analysis - Data Tables - Quadratic Equation - Using a Two Input Data Table. Data Table - insert a table and sort a table - filter a table and total row - structured references and table styles.

1.8 Solver- Load Solver Add-In: Formulate the Model - Trial and Error - Solve the Model - Transportation Problem - Assignment Problem - Shortest path problem - Maximum Flow Problem - Capital Investment - Sensitivity Analysis.

Unit II: Data Visualisation Using Tableau– Hands-On

(10 Hours)

2.1 Tableau Basics: Your First Bar chart - The Data Challenge - Who Gets the Annual Bonus - Connecting Tableau to a Data File - CSV File - Navigating Tableau - Creating Calculated Fields - Adding Colors - Adding Labels and Formatting - Exporting Your Worksheet.

2.2 Time series, Aggregation, and Filters: Working with Data Extracts in Tableau - Working with Time Series - Understanding Aggregation, Granularity, and Level of Detail - Creating an Area Chart & Learning about Highlighting - Adding a Filter and Quick Filter.

2.3 Tableau - Maps, Scatterplots, and Your First Dashboard: Joining Data in Tableau - Creating a Map, Working with Hierarchies - Creating a Scatter Plot, Applying Filters to Multiple Worksheets - Let's Create our First Dashboard! - Adding an Interactive Action - Filter - Adding an Interactive Action – Highlighting.

2.4 Joining and Blending Data, PLUS: Dual Axis Charts: Understanding how LEFT, RIGHT, INNER, and OUTER Joins Work - Joins with Duplicate Values - Joining on Multiple Fields – The Showdown: Joining Data vs. Blending Data in Tableau - Data Blending in Tableau and Dual Axis Chart - Creating Calculated Fields in a Blend (Advanced Topic) - Section Recap".

2.5 Table Calculations, Advanced Dashboards, Storytelling: Downloading the Dataset and Connecting to Tableau - Mapping: how to Set Geographical Roles - Creating Table Calculations for Gender - Creating Bins and Distributions for Age - Leveraging the Power of Parameters - How to Create a Tree Map Chart - Creating a Customer Segmentation Dashboard - Advanced Dashboard Interactivity - Analyzing the Customer Segmentation Dashboard - Creating a Storyline".

Unit III: Data Science Using Python - Hands-on

(10 Hours)

3.1 Introduction to R: What is R? And Why R? - Different “flavors” of R-Installing R Studio Desktop-Understanding R Studio-Installing Packages and Libraries in R Studio-Setting Your Work Directory.

3.2 R Implementation: Data Variables |Data Types |Operators |Keywords |Exceptions-Functions |R Data Structures |Vectors and Lists |Strings and Matrices |Arrays and Factors |Data Frames |Packages |R Interfaces |R- CSV files Read and Write and analyze the data |R- Excel files Read and Write and analyze the data.

3.3 Data Visualization: Line Plots |Bar Charts |Pie Chart and Histogram |Scatter Plots and Parallel Coordinates|Advanced Plotting|Exporting Plots and Other Plotting Packages.

3.4 Predictive Customer Analytics: Formulation of Regression Model|Bivariate Regression|Statistics Associated with Bivariate Regression Analysis|Conducting Bivariate

Regression Analysis|Multiple Regressions|Conducting Multiple Regression|Mapping Bivariate Regression with Real Time Example.

3.5 Bank Loan Modelling: Logistic Function| Single Predictor Model| Determine Logistic Cut off|Estimated Equation for Logistic Regression.

3.6 Time Series Analysis and Forecasting: Introduction to Time Series Analysis - Trend Line Analysis, Pattern Identification - Time Series Smoothing Methods - Time Series Prediction Analysis - Python - Simple Predictive Analysis - Linear Predictive Analysis - Implementation of Predictive Analysis Using Python - Multiple Predictive Model using Python - What is Multiple Predictive Model? - Building the Multiple Predictive Model using Python - Assumption of Multiple Predictive Model.

3.7 Python Correlation Analysis: What is Correlation Analysis? - Correlation Coefficient and Hypothesis Testing - Product Movement Correlation, Partial Correlation and Non Metric Correlation.

Teaching Methodology:

- Case Study Discussion
- Project Problem Solving
- Experiential Learning

Delivery Mode:

- Blended Learning – Both Online and offline

Course Reference material:

- **Data Analytics Using Advanced Excel** by Cory Lesmeister and Dr. Sunil Kumar Chinnamgari
- **R Software Machine Learning Projects** by Dr. Sunil Kumar Chinnamgari
- **Tableau 10 Complete Reference:** Transform your Data with rich data visualizations and interactive dashboards with Tableau by Joshua N. Milligan (Author), Tristan Guillevin (Author).
- **Learning Tableau 2019:** Tools for Data Intelligence, data prep, and visual analytics, 3rd Edition Paperback – March 27, 2019 by Joshua N. Milligan (Author).

Assessment Methods:

- Case study problem solving
- MCQ

Department of Mathematics (PG)

Value-Added Course

VACMASS22 - LEARNING OPEN-SOURCE SIMULATION SOFTWARE – SCILAB

Code	Title of The Paper	Hours
VACMASS22	Learning Open-Source Simulation Software - SCILAB	30

Course Objectives

1. To introduce *SCILAB* which is a free open-source scientific software package alternative to MATLAB.
2. To know the benefits of SCILAB.
3. To develop the knowledge for solving numerical problems through *SCILAB*.
4. To learn the SCILAB tool XCOS which is a graphical editor to design hybrid dynamical systems models.
5. To acquire knowledge to use *SCILAB* software package in a Signal Processing and Python context.

Course Learning Outcomes

The Learners will be able to

1. Understand and apply SCILAB as computational tool.
2. Perform mathematical Modelling in SCILAB.
3. Develop programs in SCILAB.
4. Evaluate, analyze and plot results using SCILAB.
5. Solve Non-linear, linear equations and ODE using SCILAB.
6. Understand the concepts of DSP and Python with SCILAB programs.
7. Develop SCILAB Toolbox for calling functions.

Course Syllabus

Unit I: Introduction to SCILAB

(6 Hours)

Introduction to SCILAB and its benefits - Self learning of SCILAB through Spoken Tutorials - The amazing resource of SCILAB Textbook Companion - SCILAB Lab migration, Toolboxes and Forums - Installing – Expressions - Vector Operations - Matrix Operations - Conditional Branching - Iteration - Scripts and Functions.

Unit II: 2D Visualization and Introduction to SCILAB XCOS (6 Hours)

Plotting 2D graphs - XCOS Introduction - File handling - User Defined Input and Output - Integration - Solving Non-linear Equations.

Unit III: Solving Linear Equations and ODE using SCILAB (6 Hours)

Linear equations Gaussian Methods - Linear equations Iterative Methods - Interpolation - ODE Euler methods - ODE Applications - Optimization Using Karmarkar Function.

Unit IV: Signal Processing with SCILAB (6 Hours)

Digital Signal Processing - Control systems - Discrete systems - Calling User Defined Functions in XCOS - Simulating a PID controller using XCOS - Developing SCILAB Toolbox for calling external C libraries.

Unit V: Python Interaction Mechanism in SCILAB (6 Hours)

Developing SCILAB Toolbox for calling Python and its functions - Interactive Simulation in XCOS using slider - User-defined variables in XCOS - Loading and saving data in XCOS - Conditional operations in XCOS - Super Blocks in XCOS.

Course Content: E-Resources

1. <https://spoken-tutorial.org/watch/Scilab/Introduction+to+Scilab+and+its+benefits/English/>
2. <https://spoken-tutorial.org/watch/Scilab/Self+learning+of+Scilab+through+Spoken+Tutorials/English/>
3. <https://spoken-tutorial.org/watch/Scilab/The+amazing+resource+of+Scilab+Textbook+Companion/English/>
4. <https://spoken-tutorial.org/watch/Scilab/Scilab+Lab+migration,+Toolboxes+and+Forums/English/>
5. <https://spoken-tutorial.org/watch/Scilab/Installing/English/>
6. <https://spoken-tutorial.org/watch/Scilab/Getting+Started/English/>

7. <https://spoken-tutorial.org/watch/Scilab/Vector+Operations/English/>
8. <https://spoken-tutorial.org/watch/Scilab/Matrix+Operations/English/>
9. <https://spoken-tutorial.org/watch/Scilab/Conditional+Branching/English/>
10. <https://spoken-tutorial.org/watch/Scilab/Iteration/English/>
11. <https://spoken-tutorial.org/watch/Scilab/Scripts+and+Functions/English/>
12. <https://spoken-tutorial.org/watch/Scilab/Plotting+2D+graphs/English/>
13. <https://spoken-tutorial.org/watch/Scilab/Xcos+Introduction/English/>
14. <https://spoken-tutorial.org/watch/Scilab/File+handling/English/>
15. <https://spoken-tutorial.org/watch/Scilab/User+Defined+Input+and+Output/English/>
16. <https://spoken-tutorial.org/watch/Scilab/Integration/English/>
17. <https://spoken-tutorial.org/watch/Scilab/Solving+Non+linear+Equations/English/>
18. <https://spoken-tutorial.org/watch/Scilab/Linear+equations+Gaussian+Methods/English/>
19. <https://spoken-tutorial.org/watch/Scilab/Linear+equations+Iterative+Methods/English/>
20. <https://spoken-tutorial.org/watch/Scilab/Interpolation/English/>
21. <https://spoken-tutorial.org/watch/Scilab/ODE+Euler+methods/English/>
22. <https://spoken-tutorial.org/watch/Scilab/ODE+Applications/English/>
23. <https://spoken-tutorial.org/watch/Scilab/Optimization+Using+Karmarkar+Function/English/>
24. <https://spoken-tutorial.org/watch/Scilab/Digital+Signal+Processing/English/>
25. <https://spoken-tutorial.org/watch/Scilab/Control+systems/English/>
26. <https://spoken-tutorial.org/watch/Scilab/Discrete+systems/English/>
27. <https://spoken-tutorial.org/watch/Scilab/Calling+User+Defined+Functions+in+XCOS/English/>

28. <https://spoken-tutorial.org/watch/Scilab/Simulating+a+PID+controller+using+XCOS/English/>
29. <https://spoken-tutorial.org/watch/Scilab/Developing+Scilab+Toolbox+for+calling+external+C+libraries/English/>
30. <https://spoken-tutorial.org/watch/Scilab/Developing+Scilab+Toolbox+for+calling+Python+and+its+functions/English/>
31. <https://spoken-tutorial.org/watch/Scilab/Interactive+Simulation+in+Xcos+using+slider/English/>
32. <https://spoken-tutorial.org/watch/Scilab/User-defined+variables+in+Xcos/English/>
33. <https://spoken-tutorial.org/watch/Scilab/Loading+and+saving+data+in+Xcos/English/>
34. <https://spoken-tutorial.org/watch/Scilab/Conditional+operations+in+Xcos/English/>
35. <https://spoken-tutorial.org/watch/Scilab/Super+Blocks+in+Xcos/English/>

Learning Methodology:

- Audio-Video tutorial of STP-IIT Bombay.
- Self-paced, E-learning method.

Assessment Method:

The Value-added course certificate of Auxilium College will be given to the students who receive the Certificate for Completion of Training from Spoken Tutorial-IIT Bombay (Spoken Tutorial Project (STP) is a project of the National Mission on Education through Information and Communication Technology (NMEICT) funded by the Ministry of Education (MoE), Govt. of India. It is endorsed by AICTE and UGC, also comes under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT) and Swayam Platform).

The pass percentage for the Online test conducted by Spoken Tutorial is 40%.

Department of Mathematics

Value-Added Course

VACMAFD22 - FUNDAMENTALS OF DATA ANALYTICS

Code	Title of The Paper	Hours
VACMAFD22	Fundamentals of Data Analytics	30

Course Learning Outcomes:

To help the students rekindle their critical thinking and widen their knowledge of data analytics.

Unit 1 - Working with Data (6 hours)

Introduction - Working with Data - The OSEMN Framework - Obtaining Data - Scrubbing Data - Exploring Data - Modelling Data -Interpreting Data

Unit 2 - Python for Data Analysis (6 hours)

Introduction - Python for Data Analysis - Data and Data Formats - Myths of Programming

Unit 3 - Variables and data Structures in Python (6 hours)

Introduction to Python: Variables Part 1 - Introduction to Python: Variables Part 2
Introduction to Python: Variables Part 3 - Introduction to Python: Data Structures

Unit 4 - Conditional Statements and Functions in Python (6 hours)

Introduction to Python: Conditional Statements – Iteration - A Simple Marketing Analysis with Example - Functions in Python - Built In Functions - Function Writing

Unit 5 - Data Cleaning and Processing (6 hours)

Introduction: Data Cleaning and Processing - Working with Data in Spread sheets - Number - Formats and Sorting in Google Sheets - Filtering Data with Google Sheets - Functions in Google Sheets - Data Visualization in Google Sheets

Book for Study:

Rudolf Mathar, Gholamreza Alirezaei, Emilio Balda, Arash Behboodi - Fundamentals of Data Analytics _ With a View to Machine Learning-Springer International Publishing_Springer (2020)

Book for Reference:

LjubomirPerkovic, “Introduction to computing using Python”, 2nd Edition, John Wiley & Sons, 2012.

ASSESSMENT METHOD

A Practical Examination of two hours duration for 50 marks will be conducted at the end of the course.

Department of Social Work

Value-Added Course

VACSWFD22 – FASHION DESIGNING

Code	Title of The Paper	Hours
VACSWFD22	Fashion Designing	30

Course Learning Outcomes:

At end of the course the student should be able to:

1. Produce their own marketable products
2. Unleash their creativity and generate income
3. Convert Waste to wealth

Engross in Social Responsibility and Community Engagement

Unit I: Textile Industry based Product & Selecting the Nature's Block (8 Hours)

The basics of the fabrics, selecting the base materials, Characteristics of the process, the spectrum of Nature's Block available, Determination of Nature's block, choosing of the block, Waste to Wealth Principle.

Unit II: Product development and showcasing and Goodie Based on Paper and Pulp industry (9 Hours)

Ecofriendly Bio based Printing on Fabric using the Nature's Block, Artefact development, showcasing the merchandisable product, Need of Goodies, Behavioral and neural science behind Goodies, Cases studies on Goodies, Effect of Goodie on relationship building, reducing stress and improving moods, knowing the process of paper and pulp industry

Unit III: Biological and organic waste materials as the raw material (4 Hours)

Fundamentals of color, Coloring agents, natural dyes, Mordants, Biological or organic waste material into pressed merchandisable flower greeting cards.

Unit IV: Marketing strategies (4 Hours)

Strategic planning - SWOT analysis, Business plan preparation -Business Model Canvas (BMC), Training and Development. Stage gate approach to product development, Return on Investment, Commercialization, stages of commercialization of products

Unit V: Business Management Skills (5 Hours)

Understanding Marketing, Marketing and Product development, Capturing and connecting customers, Building strong Bands, and creating value. E-business and E- marketing, Business to Business Marketing, Consumer Marketing. Collaboration agreement, Strategic collaboration, Nature of Operation and Material Management, Operation and Material Management Costs, Distribution and sale of products, outsourcing

Department of Botany

Value-Added Course

VACBTES22 - ENTREPRENEURIAL SKILLS IN BOTANY

Code	Title of The Paper	Hours
VACBTES22	Entrepreneurial Skills In Botany	30

Unit I: Nursery and Garden: (4 Hours)

Definition, objectives, and scope of the nursery, planning, and seasonal activities - Planting - direct seedling and transplants, economy of the nursery.

Unit II: Organic Manure Production: (4 Hours)

Introduction, Composting, production of compost and constitution of compost, Factors affecting decomposition. Vermiculture and vermicomposting: Definition, Advantages, Role of Earthworms in soil fertility. Importance of Organic Manure.

Unit III: Vegetative Propagation of Horticulture plants: (4 Hours)

Introduction, Economic importance, and classification of horticulture crops. Types and Methods of Vegetative propagation: Cutting, Layering, Grafting, and Budding. Propagation of plants for ornamental purposes.

Unit IV: Kitchen and Terrace Gardening: (4 Hours)

Introduction, Garden and its types, Tools and equipment required for the garden preparation, Vegetable garden, kitchen garden, Plan of Terrace Garden, Advantages of Terrace gardening.

Unit V: Herbal Products: (4 Hours)

Preparation of Herbal hair oil, herbal face pack, herbal shampoo, herbal toothpaste, herbal soap, herbal food products

Student activity: (10 Hours)

Preparation of Organic manure /herbal products, Visit the Nursery and Horticultural department.

Suggested Readings

1. Bose T.K. & Mukherjee, D. 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
2. Sandhu, M.K. 1989. Plant Propagation, Wile Eastern Ltd., Bangalore, Karnataka.
3. Kumar, N. 1997. Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
4. Pande, H. 2015. Herbal Cosmetics - Asia Pacific Business press, New Delhi.

Department of Business Administration (UG)

Value-Added Course

VACBADM22 - DIGITAL MARKETING

Code	Title of The Paper	Hours
VACBADM22	Digital Marketing	30

Course Learning Outcomes:

1. To give an in-depth understanding and advanced knowledge of the digital marketing domains.
2. Impart skills to apply digital marketing tactics for achieving business objectives.
3. Empower participants to analyze and communicate public opinion of a brand or a company to stakeholders.
4. Provide a strategic framework to assess and implement various digital marketing practices.

Unit I - Introduction

Introduction to Internet Marketing - Overview of Industry - History of Internet Marketing - 2017 Trends - Setting Goals and defining Metrics - Social Media Marketing - An introduction to platforms and platform personality - Choosing social platforms for marketing - Facebook Marketing – best practices & case examples - Twitter Marketing – best practices & case examples - LinkedIn Marketing – best practices & case examples - Blog / Communities - – best practices & case examples

Unit II - Search Engine Optimization

SEO: Definition, history and evolution - SEO Trends - How does Search Engine work? - Basics of on page and off page SEO - SERP Analysis

Unit III - Google Analytics

Understanding various parameters under Google Analytics - How to get insights - Advantage of integrating website with Google Analytics -Influencer Marketing - What is influencer marketing - How to choose the right influencer - Tools to measure degree of influence by an influencer - Measurement of influencer marketing campaign

Unit IV - Mobile Marketing

Overview on Mobile Marketing - Introduction to Mobile Marketing - Understanding importance of User Interface and User experience while using Mobile - Types of mobile ads - Mobile marketing strategies

Unit V - Online Reputation Management

Online Reputation Management - Introduction to ORM - Trends in ORM - How ORM could be used to develop meaningful content - What are various Tools for online listening and how to use them.

Teaching Methodology

- Case Study Discussion

- Project Problem Solving
- Experiential Learning

Delivery Mode

- Blended Learning – Both Online and offline

Text Books

1. Chaffey, D., & Smith, P. R. , Digital marketing excellence: planning, optimizing and integrating online marketing. Taylor & Francis. (2017).
2. Dodson, I. , The art of digital marketing: the definitive guide to creating strategic, targeted, and measurable online campaigns. John Wiley & Sons. (2016).
3. Kaufman, I., & Horton, C. , Digital marketing: Integrating strategy and tactics with values, a guidebook for executives, managers, and students. (2014).

Reference Books

1. Routledge. Royle, J., & Laing, A ,The digital marketing skills gap: Developing a Digital Marketer Model for the communication industries. International Journal of Information Management. (2014).
2. Stokes, R., E-Marketing: The essential guide to digital marketing. Quirk e Marketing (2011).

E-resources

- <https://www.webmarketingacademy.in>
<https://www.digitalmarketer.com>

Department of Business Administration (PG)

Value-Added Course

VACBAIP22 - INTELLECTUAL PROPERTY RIGHTS

Code	Title of The Paper	Hours
VACBAIP22	Intellectual Property Rights	30

Course Learning Outcomes:

1. To introduce the fundamental aspects of Intellectual property Rights.
2. To disseminate knowledge on patents, patent regime in India.
3. To communicate the basic understanding on copyrights and its related rights and registration aspects.
4. To initiate the skill on trademarks, registration aspects and Geographical Indication (GI) □
5. To be aware on the current trends in IPR and Govt. steps in fostering IPR.

Unit I - Introduction to IPR

Definition- History of IPR - Meaning of Property- Intellectual Property-Intellectual Property Rights- Types of intellectual property- Importance of Intellectual Property Rights- Agencies responsible for Intellectual Property Registration- TRIPS.

Unit II - Trade Mark

Definition - Purpose and Function of Trademarks- Types- Acquisition of Trade Mark Rights- Laws related to Trade Mark- Selecting and Evaluating Trademark- Registration of Trademarks - Trade Secret and its Protection.

Unit III - Patent

Meaning- Criteria for Obtaining Patents - Novelty - Inventive step - Utility - Non patentable Inventions - Procedure for Registration - Term of Patent - Rights of Patentee - Basic concept of Compulsory License and Government use of Patent.

Unit IV - Copyrights & Geographical Indication

Definition - Fundamentals of Copyright law- Copyright Board and its Functions - Originality of Material- Right of Reproduction- Right to perform the Work Publicly- Copyright Ownership Issues- Notice of Copyright – Infringement of Copyrights – Meaning of GI-Features-Registration Procedure.

Unit V - Current trends in IPR

Meaning- Application - Registration - Procedure-New development of Intellectual property: New developments in Trade Mark Law- Copyright Law- Patent Law- International Overview on Intellectual Property- International Trade Mark Law- Copyright Law- Patent Law.

Teaching Methodology

- Case Study Discussion

- Project Problem Solving
- Experiential Learning

Delivery Mode

- Blended Learning – Both Online and offline

Text Books

1. Nithyananda, K V. (2019). Intellectual Property Rights: Protection and Management. India, IN: Cengage Learning India Private Limited.
2. Neeraj, P., & Khusdeep, D. (2014). Intellectual Property Rights. India, IN: PHI learning Private Limited.

Reference Books

1. Ahuja, V K. (2017). Law relating to Intellectual Property Rights. India, IN: Lexis Nexis.
2. Rocque Reynolds, Natalie P. Stoianoff, Alpana Roy (2015) Intellectual Property: Text and Essential Cases , Federation Press.

E-resources

- <http://www.bdu.ac.in/cells/ipr/docs/ipr-eng-ebook.pdf>
- https://www.wipo.int/edocs/pubdocs/en/intproperty/489/wipo_pub_489.pdf

Department of Business Administration (PG)
Value-Added Course
VACBASD22 - SUSTAINABLE DEVELOPMENT GOALS

Code	Title of The Paper	Hours
VACBASD22	Sustainable Development Goals	30

Global Understanding for Sustainable Development Goals (Promoting Social Business and Entrepreneurship)

Course Learning Outcomes:

1. Mainstreaming students to involve in the Post-2015 Development Agenda, engage and contribute towards the success of Sustainable Development Goals (SDGs).
2. Providing students with an opportunity to participate in the SDG & Business interventions.
3. To initiate and participate in Youth Leadership and Youth Work projects
4. Providing workspace for youth to frame, and exhibit their skills and mentoring them with various leadership qualities including the spirit of social entrepreneurship.

Unit I - Introduction

Introduction – Sustainable Development Goals – History – Agenda – Objectives – Classification of Goals – Factors influencing contribution towards SDGs.

Unit II - SDG 1, 2, 4

SDG 1, 2, 4 – No poverty, Zero Hunger & Quality Education – SDG 3 – Good Health & Wellbeing – SDG 5, 10 – Gender Equality & Reduced Inequalities – Experiential learning and Self & Social immersion – Entrepreneurs Talk series.

Unit III - SDG 6, 13, 14, 15

SDG 6, 13, 14, 15 – Clean water and sanitation, Climate Action, Life Below Water & Life on Land – SDG 7, 12 – Affordable and clean energy & Responsible consumption and production – Experiential learning and Self & Social immersion – Entrepreneurs Talk series.

Unit IV - SDG 8, 9

SDG 8, 9 – Decent Work and Economic Growth, Industry, Innovation, and Infrastructure & Sustainable cities and communities – SDG 16, 17 - Peace, Justice and Strong Institutions & Partners for the goals. Experiential learning and Self & Social immersion – Entrepreneurs Talk series.

Unit V- Social Entrepreneurship

Social Entrepreneurship – How to promote – Media management – Social Innovation Summit & Exhibition – Project submission and evaluation – Project pitching & presentation.

Teaching Methodology

- Brainstorming
- Experiential Learning, Field Visits & Projects
- Storytelling
- Group Discussion
- PPT presentation
- Paper presentation

Delivery Mode

- Blended Learning – Both Online and offline

Text Books

1. Yoko Mochizuki and Eleni Christodoulou, Textbooks for Sustainable Development - A Guide to Embedding, UNESCO MGIE (2017)
2. Paula Caballero and Patti Londoño , Redefining Development: The Extraordinary Genesis of the Sustainable Development Goals (The Policy and Practice of Governance) (2022)

Reference Books

1. Paul Nelson - Global Development and Human Rights: The Sustainable Development Goals and Beyond (UTP Insights) (2022)
2. Wendy Steele and Lauren Rickards ,The Sustainable Development Goals in Higher Education: A Transformative Agenda? (2021)
3. Evan Thomas, The Global Engineers: Building a Safe and Equitable World Together (Sustainable Development Goals Series) (2020)

E-resources

- <https://sdgacademy.org/>
- <https://www.un.org/sustainabledevelopment/student-resources/>
- <https://www.un.org/sustainabledevelopment/education/>
- <https://www.unsdglearn.org/courses/climate-change-the-science-and-global-impact/>
- 5. <https://en.unesco.org/themes/education/sdgs/material>

Department of Business Administration (PG)
Value-Added Course
VACBABA22 - APPLICATION OF BUSINESS ANALYTICS USING
ADVANCED EXCEL, PYTHON AND TABLEAU

Code	Title of The Paper	Hours
VACBABA22	Application Of Business Analytics Using Advanced Excel, Python And Tableau	30

Course Learning Outcomes:

1. To develop the skills necessary to do Business Analytics (Bivariate and Multivariate Techniques also real time projects along with case study).
2. To deepen the understanding of methods for collecting, analysing, and summarizing data pertinent to solving Business problems.

Unit I - Business Analytics Introduction

Business Analytics Introduction - Business Analytics Introduction- Business Analytics Brief - Data Statistics - Descriptive and Inferential - Data Visualization - Business Analytics Algorithm in Detail - Supervised Learning Algorithm - Unsupervised Learning Algorithm - Reinforcement Learning Algorithm - Business Analytics Importance and Key challenges - Life of Business Analytics Expert - Business Analytics Application.

Unit II - Data Analytics Using Advanced MS Excel – Hands-On

Descriptive Statistics using Advanced Excel:- Central Tendency - Mean - Median, Mode, Percentiles and Quartiles - Dispersion - Variance, Standard Deviation and Range - Interquartile Range - Numerical Measures -Detecting Outliers. Data Visualisation Using Excel: Graphs - Charts - create a chart and change chart type - switch row/column and chart title - legend position and data labels - column chart, line chart, pie chart and bar chart - area chart, scatter chart, trend line.

Correlation - Correlation Analysis - Formulation of Correlation Matrix - Mapping Correlation concept with Real Time Example. Regression - Linear Regression Analysis - Formulation of Regression Model - Bivariate Regression - Multiple Regressions - Conducting Multiple Regression - Mapping Bivariate Regression with Real Time Example.

Pivot Table and Pivot Chart -Inserting a PivotTable - Choosing Fields and Sort Data - Two Dimensional Pivot Table - Data Table -insert a table and sort a table - filter a table and total row. Pivot Chart - Group Pivot Table Items - Multi - level Pivot Table - Frequency Distribution - Pivot Chart and Slicers - Update Pivot Table - Calculated Field/Item - T-Test - Parametric Test - T –test (One and Two - Sample - Z - test (One and Two Sample) - F – Test (One and Two Sample).

Statistical Functions - Average function and average if function - Median, mode and standard deviation - Min function, max function, large and small function - Negative numbers to zero, random numbers and rank - Percentiles and quartiles forecast and trend. Logical Function - If function, and function and or function - nested if and roll the dice.

Lookup Function - Vlookup function and Hlookup functions - match and index and choose, text rates and offset - left lookup and two way lookup, locate maximum value and indirect - Formula Error - ##### error, #name? Error and #value! Error - #div/0! Error and #ref! Error, iferror and iserror - Circular reference and formula auditing and floating point errors.

Data Validation and Data Table - create data validation rule and input message and error alert - data validation result and rejection of invalid dates - budget limit and prevent duplicate entries - product codes and drop down list, dependent drop down list. Compatibility Function - Scenario Manager - Create Scenario using Scenario Manager - Using the Scenario Summary - Using Goal seek Analysis - Data Tables - Quadratic Equation - Using a Two Input Data Table. Data Table - insert a table and sort a table - filter a table and total row - structured references and table styles.

Solver- Load Solver Add-In - Formulate the Model - Trial and Error - Solve the Model - Transportation Problem - Assignment Problem - Shortest path problem - Maximum Flow Problem - Capital Investment - Sensitivity Analysis

Unit III - Data Visualisation Using Tableau– Hands-On

Tableau Basics: Your First Bar chart - The Business Challenge - Who Gets the Annual Bonus - Connecting Tableau to a Data File - CSV File - Navigating Tableau - Creating Calculated Fields - Adding Colors - Adding Labels and Formatting - Exporting Your Worksheet.

Time series, Aggregation, and Filters - Working with Data Extracts in Tableau - Working with Time Series - Understanding Aggregation, Granularity, and Level of Detail - Creating an Area Chart & Learning about Highlighting - Adding a Filter and Quick Filter.

Tableau - Maps, Scatterplots, and Your First Dashboard - Joining Data in Tableau - Creating a Map, Working with Hierarchies - Creating a Scatter Plot, Applying Filters to Multiple Worksheets - Let's Create our First Dashboard! - Adding an Interactive Action - Filter - Adding an Interactive Action – Highlighting.

Joining and Blending Data, PLUS: Dual Axis Charts - Understanding how LEFT, RIGHT, INNER, and OUTER Joins Work - Joins with Duplicate Values - Joining on Multiple Fields – The Showdown: Joining Data vs. Blending Data in Tableau - Data Blending in Tableau and Dual Axis Chart - Creating Calculated Fields in a Blend (Advanced Topic) - Section Recap".

Table Calculations, Advanced Dashboards, Storytelling - Downloading the Dataset and Connecting to Tableau - Mapping: how to Set Geographical Roles - Creating Table Calculations for Gender - Creating Bins and Distributions for Age - Leveraging the Power of Parameters - How to Create a Tree Map Chart - Creating a Customer

Segmentation Dashboard - Advanced Dashboard Interactivity - Analyzing the Customer Segmentation Dashboard - Creating a Storyline"

Unit IV - Data Science Using Python - Hands-on

Python Introduction - IDE and Python Packages - Python Introduction - Python IDE - Spyder, Jupiter and Notebook - Numpy Packages - Pandas Packages - Matplotlib Packages - Scipy Packages - Sklearn Packages
Python Data Types - Dictionary, List and Set and Variable Declaration - String Declaration - Tuple Declaration - Python Programming - Dictionary Declaration - List Declaration - Set Declaration - Python Data Types.

Numpy Packages - Array Handling and Manipulation - Declaration of Array - Universal Function of Numpy - Binary Functions of Numpy - Logical Functions of Numpy - Statistical Functions of Numpy.

Unit V - Data Science Using Python - Hands-on

Pandas Packages - Data frame and Loading Excel, CSV File - Pandas Packages - Accessing File Processing - Merging the Data frame - Joins - Inner, Outer, Left and Right - handling the Null values - Handling the Duplicates.

Matplotlib Packages - Line graph and Visualisation - Introduction to Matplotlib packages - Representation of Line Graph - Representation of Multi Line Graph - Including the Legends - Histogram, Scatter Diagram, Box Plot and Bar Graph
Representation of Histogram - Representation of Scatter Diagram - Representation of Box Plot - Representation of Bar Graph - Area Chart, Dual Axis, Array reshaping, reverse matrix analysis
Representation of Area Chart - Representation of Dual Axis.

Python - Time Series Analysis and Forecasting - Introduction to Time Series Analysis - Trend Line Analysis, Pattern Identification - Time Series Smoothing Methods - Time Series Prediction Analysis - Python - Simple Predictive Analysis - Linear Predictive Analysis - Implementation of Predictive Analysis Using Python - Multiple Predictive Model using Python - What is Multiple Predictive Model? - Building the Multiple Predictive Model using Python - Assumption of Multiple Predictive Model.
Python Correlation Analysis - What is Correlation Analysis? - Correlation Coefficient and Hypothesis Testing - Product Movement Correlation, Partial Correlation and Non Metric Correlation

Teaching Methodology

- Case Study Discussion
- Project Problem Solving
- Experiential Learning

Delivery Mode

- Blended Learning – Both Online and offline

Text Books

1. Data Analytics Using Advanced Excel by Cory Lesmeister and Dr. Sunil Kumar Chinnamgari
2. Tableau 10 Complete Reference: Transform your business with rich data visualizations and interactive dashboards with Tableau by Joshua N. Milligan (Author), Tristan Guillevin (Author)
3. Python Crash Course: A Hands-On, Project-Based Introduction to Programming by Eric Matthes

Reference Books

1. Learning Tableau 2019: Tools for Business Intelligence, data prep, and visual analytics, 3rd Edition , 2019 by Joshua N. Milligan (Author)
2. Introduction to Machine Learning with Python: A Guide for Data -2016 by Andreas C. Mueller (Author), Sarah Guido (Author)
3. Python Machine Learning Projects by Dr. Sunil Kumar Chinnamgari

E-resources

- <https://analyticsindiamag.com>
<https://towardsdatascience.com>

Department of Computer Application
Value-Added Course
VACCACP22 – CLASS BASED PROGRAMMING

Code	Title of The Paper	Hours
VACCACP22	Class Based Programming	30

Course Learning Outcomes:

- To understand the basic concepts of Object and Classes, Pointers, Functions, and File Operations.
- To gain knowledge about various types of data along with the structures and its algorithms.

Unit I:

Advanced Classes and Object Oriented programming: Objects- Classes – Inheritance – Reusability – Creating New Data types – Polymorphism and Overloading - Recursion: Need of Recursion – Properties of Recursion – Recursion Functions.

Unit II:

Virtual functions and Polymorphism: Pointers to Objects – this Pointer – Pointers to Derived Classes – Virtual Functions – Pure Virtual Functions. - Exceptions, Templates, and Standard Template Library.

Unit III:

Linked Lists: Representation in Memory - Traversing a Linked List - Searching - Insertion and Deletion - Two way Lists - Application Stacks - Array Representation - Arithmetic Expressions- Queues - Priority Queues.

Unit IV:

Trees - Binary Trees - Representation in Memory - Tree Traversals - Binary Search Trees - Searching Inserting and Deleting. Mapping Console I/O Operations - Files: File streams – File operations – File pointers – Command Line Arguments.

Unit V:

1. Program to implement String Manipulations.
2. Program to implement Recursion.
3. Program to implement Classes and Objects.
4. Program to implement Virtual Functions and Polymorphism.
5. Program to implement using Stack.
6. Program to implement using Queue.
7. Program to implement using Searching Techniques.
8. Program to implement File concepts.

Books for Study:

1. Balagurusamy E., “Object Oriented Programming with C++”, Sixth Edition, Tata McGraw Hill Publication, 2014.
2. Seymour Lipschutz, “Data Structures: Schaum’s Outline Series”, Revised Edition, McGraw Hill Publication, 2011.

Books for Reference:

1. Herbert Schildt, “The complete Reference C++”, Edition IV, Tata McGraw Hill Publication, 2015.
2. Yashawant P. Kanetkar, ” Let Us C++”, Edition II, BPB Publication, 2003.
3. Ellis Horowitz,Sartaj Sahni,Susan Andeson Freed, “Fundamentals of Data Structures in C”, 2nd Edition, Universities Press Pvt Ltd, ,2018
4. Alfred V.Aho, John E.Hopcroft, Jeffrey D.Ullman , “Data Structures and Algorithms” , 1st Edition, Pearson Education, 2004.

Open Educational Resources (OER):

1. <https://beginnersbook.com/2017/08/cpp-oops-concepts/>
2. https://www.tutorialspoint.com/cplusplus/cpp_object_oriented.htm
3. https://www.youtube.com/watch?v=h4kUiFOb_v0
4. <http://www.ddegjust.ac.in/studymaterial/mca-3/ms-17.pdf>

Department of Computer Application

Value-Added Course

VACCASD22 – SOFTWARE DEVELOPMENT FRAMEWORK USING CORE MVC

Code	Title of The Paper	Hours
VACCASD22	Software Development Framework Using Core MVC	30

Course Learning Outcomes:

- To gain knowledge about the methodologies to develop .Net based application.
- Understand the benefits of MVC design over traditional ASP.NET Web Forms.
- To learn about Windows, Forms and Role-Based Authentication.
- To learn about the Razor Syntax Fundamentals, Layout View, Sections and Partial Views.
- To build and deploy ASP.NET MVC application to the server.

Unit I

Introduction : ASP.NET MVC-Introduction- First MVC Application- Exploring Controllers - Controller Viewdata & TempData - Controller Action Methods - Controller Action Method Parameter - Controller Action Filters - Controller Action Custom Filters.

Unit II

Exploring Razor Views: View Razor Syntax - View Layouts - View Partialviews - View Tightly Coupled Model. Digging into HTMLHelper Methods: Html Helpers Part-I - Html Helpers Part-II - Html Helper Model Binding - Html Helper Display and Editors Methods - Html Helper Viewdata Binding - Html Helper Custom Templates - Html Helper Reusing Helpers.

Unit III

Understanding Model Binders: Default Model Binder - Custom Model Binder. Validation and Annotations: Model Validation - Unobtrusive Client Validations - Metadata Validation. Using Entity Framework: MVC and EF Crud Operations - MVC and EF Crud Operation Using BO Class - MVC and EF Crud Operations Using Generic BO Class.

Unit IV

Authentication and Authorization: Windows Authentication - Forms Authentication - Role Based Authentication - Anti Forgery Token - URL Routing - Working with Areas. JQuery and Ajax: Ajax Helper Methods Controller - JQuery UI - JQuery Template.

Unit V

Bundling and Minification - Mobile Compatibility - Web API: Web API First Example - Performing Crud Using Web API.

Books for Study:

1. Nimit Joshi , “Programming ASP.NET MVC 5 A Problem Solution Approach “, 2013.
2. Matthew MacDonald TMH, “The Complete Reference ASP.NET”, First Edition, Mcgraw Hill, 2002.

Books for Reference:

1. Kogent Learning Solutions Inc, “ASP.NET 2.0 Black Book”, Platinum Edition, DreamTech Press, 2006.
2. Dino Esposito “Introducing Microsoft ASP .NET 2.0”, First Edition, PHI Publisher.
3. Matthew MacDonald, “Pro ASP.NET 4 in C#”, 4th Edition, 2010.

Open Educational Resources (OER):

1. <https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions-1/controllers-and-routing/aspnet-mvc-controllers-overview-cs>
 2. https://www.c-sharpcorner.com/UploadFile/g_arora/Asp-Net-mvc-series-for-beginners-part-1/
 3. <https://www.codeproject.com/Articles/207797/Learn-MVC-Model-View-Controller-step-by-step-in>
 4. https://en.wikipedia.org/wiki/ASP.NET_MVC
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Department of Computer Application

Value-Added Course

VACCASD22 – SOFTWARE DEVELOPMENT FRAMEWORK USING CORE MVC

Code	Title of The Paper	Hours
VACCASD22	Software Development Framework Using Core MVC	30

Course Learning Outcomes:

- To gain knowledge about the methodologies to develop .Net based application.
- Understand the benefits of MVC design over traditional ASP.NET Web Forms.
- To learn about Windows, Forms and Role-Based Authentication.
- To learn about the Razor Syntax Fundamentals, Layout View, Sections and Partial Views.
- To build and deploy ASP.NET MVC application to the server.

Unit I

Introduction : ASP.NET MVC-Introduction- First MVC Application- Exploring Controllers - Controller Viewdata & TempData - Controller Action Methods - Controller Action Method Parameter - Controller Action Filters - Controller Action Custom Filters.

Unit II

Exploring Razor Views: View Razor Syntax - View Layouts - View Partialviews - View Tightly Coupled Model. Digging into HTMLHelper Methods: Html Helpers Part-I - Html Helpers Part-II - Html Helper Model Binding - Html Helper Display and Editors Methods - Html Helper Viewdata Binding - Html Helper Custom Templates - Html Helper Reusing Helpers.

Unit III

Understanding Model Binders: Default Model Binder - Custom Model Binder. Validation and Annotations: Model Validation - Unobtrusive Client Validations - Metadata Validation. Using Entity Framework: MVC and EF Crud Operations - MVC and EF Crud Operation Using BO Class - MVC and EF Crud Operations Using Generic BO Class.

Unit IV

Authentication and Authorization: Windows Authentication - Forms Authentication - Role Based Authentication - Anti Forgery Token - URL Routing - Working with Areas. JQuery and Ajax: Ajax Helper Methods Controller - JQuery UI - JQuery Template.

Unit V

Bundling and Minification - Mobile Compatibility - Web API: Web API First Example - Performing Crud Using Web API.

Books for Study:

1. Nimit Joshi , “Programming ASP.NET MVC 5 A Problem Solution Approach “, 2013.
2. Matthew MacDonald TMH, “The Complete Reference ASP.NET”, First Edition, Mcgraw Hill, 2002.

Books for Reference:

1. Kogent Learning Solutions Inc, “ASP.NET 2.0 Black Book”, Platinum Edition, DreamTech Press, 2006.
2. Dino Esposito “Introducing Microsoft ASP .NET 2.0”, First Edition, PHI Publisher.
3. Matthew MacDonald, “Pro ASP.NET 4 in C#”, 4th Edition, 2010.

Open Educational Resources (OER):

1. <https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions-1/controllers-and-routing/aspnet-mvc-controllers-overview-cs>
 2. https://www.c-sharpcorner.com/UploadFile/g_arora/Asp-Net-mvc-series-for-beginners-part-1/
 3. <https://www.codeproject.com/Articles/207797/Learn-MVC-Model-View-Controller-step-by-step-in>
 4. https://en.wikipedia.org/wiki/ASP.NET_MVC
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Department of Computer Science
Value-Added Course
VACCSAD22 – ANDROID DEVELOPMENT

Code	Title of The Paper	Hours
VACCSAD22	Android Development	30

Course Learning Outcomes:

- To study the basic concept of android development tools and frameworks.
- To understand the concepts of Intents and Services.
- To learn about Networking and Mobile Apps.
- To provide Graphics Design, Packages and deployment of Android application tools.
- To study about Security, Hacking and development process of Mobile App.

Unit I:

Introduction: Introduction to Mobile Computing – Introduction to Android Development Environment - Factors in Developing Mobile Applications: Mobile Software Engineering - Frameworks and Tools - Generic UI Development - Android User - More on UIs: VUIs and Mobile Apps - Text-to-Speech Techniques - Designing the Right UI - Multichannel and Multimodal UIs.

Unit II:

Intents and Services: Android Intents and Services - Characteristics of Mobile Applications - Successful Mobile Development - Storing and Retrieving Data: Synchronization and Replication of Mobile Data - Getting the Model Right - Android Storing and Retrieving Data - Working with a Content Provider.

Unit III:

Communications Via Network and the Web: State Machine - Correct Communications Model - Android Networking and Web - Telephony: Deciding Scope of an App - Wireless Connectivity and Mobile Apps - Android Telephony - Notifications and Alarms: Performance - Performance and Memory Management - Android Notifications and Alarms.

Unit IV:

Graphics: Performance and Multithreading - Graphics and UI Performance - Android Graphics -
Multimedia: Mobile Agents and Peer-to-Peer Architecture - Android Multimedia. Location:
Mobility and Location Based Services – Android - Packaging and Deploying - Performance
Best Practices - Android Field Service App.

Unit V:

Security and Hacking: Active Transactions - More on Security - Hacking Android -
Platforms and Additional Issues: Development Process - Architecture, Design, Technology
Selection - Mobile App Development Hurdles – Testing.

Books for Study:

1. Wei Meng Lee, “Beginning Android 4 Application Development”, John Wiley & Sons Inc, 1st Edition Inc, 2012.
2. Reto Meier, “Professional Android 4 Application Development”, John Wiley & Sons Inc, 1st Edition, 2012.

Books for Reference:

1. ZigurdMednieks, Laird Dornin, Blake Meike G, and Masumi Nakamura, “Programming Android”, O’Reilly Inc, 2nd Edition, 2012.
2. OnurCinar, “Android Apps with Eclipse”, Apress, Springer (India) Private Limited, 2nd Edition, 2012.

Open Educational Resources (OER):

1. <http://developer.android.com/training/basics/firstapp/index.html>
2. www.vogella.com/articles/Android/article.html
3. <https://hackernoon.com/applicationlifecycleinios12b6ba6af78b>
4. <https://www.tutlane.com/tutorial/ios/ioslifecyclearchitecture>
5. <https://developer.android.com/guide/components/activities/activitylifecycle>

VALUE-ADDED COURSE
DEPARTMENT OF COMMUNICATION
MEDIA IN COLLABRATION WITH DOT IMAGINE INSTITUTE
VACVCPA22 - PORTRAYAL OF ART

Course Code	Title of The Course	Hours
VACVCBD22	Portrayal of Art	30

Course Learning Outcomes:

- To develop the basic skills in Art through Drawing and modeling in the students and to enable them to expand their visual expression through portraying of skills.

Course Syllabus:

Unit I: Basic Drawing (6 hours)

Basic structure of objects, drawing straight lines, the foundation of perspective, angels of lights and eye view. Elements of Drawing, Perspective Drawing, Level /Distance/ Direction & Angeles, Types of color, color mixing, water color, poster color (K1, K2, K3)

Unit II: Light and Shades (6 hours)

Pencil drawing and shading, Pen drawing, Composition Drawing, Material Maintenance, Lights and dimension – lines and curves of different thickness-creative patterns – effects of lights –and differences-landscape. (K1, K2, K3, K4)

Unit III: Perspective (6 hours)

Principles of Design-Balance-Emphasis, Proportion, Variety and Unity, Tree, Birds, Flowers, Animals, Human figure, (K1, K2, K3, K4)

Unit IV: Still Life Techniques (6 Hours)

Caricature drawing, Portrait drawing, live portrait, Oil pastel techniques, color filling techniques, still life drawing, Object drawing, Design, Outdoor Drawing, Clay modeling, Memory Drawing, Enlarge and Reduce drawing. (K1, K2, K3, K4)

Unit V: Practical Exercises (6 hours)

- Alphabets and numbers
- Overlaying (Geometrical Shapes, Irregular shapes)
- Patterns and structure in day-to-day life
- Perspectives
Cognitive level: K1, K2, K3, K4, K5

The drawing record should contain exercise completed by each student on every practical class. All exercises must be in pencil and different medium – water color, poster color

VACCSDS22-Web Framework for Data Science

Course Objectives

- To understand the basic concepts of Object Oriented Python.
- To describe about Database Programming and Client-Server Programming with different database operations.
- To design GUI Applications in Python by using widgets.
- Express basic numerical processing using Python.
- To study about Data Visualization using Python.

Unit I

Object Oriented Python: Assertion – Decorators – Generators – Iterators - Threading in Python: Creation, Execution of threads using threading module.

Unit II

Database programming using Python: Connecting to a database (SQLite) using Python - Sending DML and DDL queries and processing the result from a Python Program - Network programming using Python: An introduction to client-server programming – Basics of TCP and UDP protocols - Introduction to socket programming – Building an HTTP client and server.

Unit III

GUI in Python: Introduction to GUI building libraries – Widgets: Button, Canvas, Check button, Entry, Frame, Label, List box, Menu button, Menu, Message, Radio button, Scale, Scrollbar, Text, Toplevel, Spin box, Paned Window, Label Frame, tkMessageBox - Basic image processing using Python: Introduction to digital image processing – Basic operations on an image: Crop, Scale, Rotate, Flip, Changing Contrast, Brightness and Color, Edge detection, Blur and Sharpening.

Unit IV

Basic numerical processing using Python: Introduction to numpy – Creation of vectors and matrices - Matrix manipulation – Basing data analysis using Python: Introduction to Pandas – Pandas data structures – Series and Data Frame - Data wrangling using pandas: Loading a

dataset into a data frame, Selecting Columns from a database, Selecting rows from a data frame, Adding new data in a data frame, Deleting data from a data frame.

Unit V

Basic Data Visualization using Python: Introduction to Matplotlib – Scatter plot – Line Plot – Bar Chart – Histogram – Box plot – Regular Expression: RE package – Web Scrapping: Beautiful Soup

Book for Study:

1. Ljubomir Perkovic, “Introduction to Computing Using Python: An Application Development Focus”, 2nd Edition, John Wiley & Sons, 2012

Books for Reference:

1. Martin C. Brown, “Python: The Complete Reference”, McGraw Hill Education; Fourth Edition, March 2018.
2. N. Ryan Marvin, Amos Omondi - “Python Fundamentals”, 1st Edition, Packt Publishing, 2018.
3. Magnus Lie Hetland - “Beginning Python - From Novice to professional”, 3rd Edition A Press Publishers, 2008.

OER:

1. www.freebookcentre.net/programming.../Python-Language-Reference.html
2. www.freebookcentre.net/.../Introduction-to-Python-Programming-Course-Notes.html