



KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA
(A State Public University)

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)

Faculty of Humanities

Syllabus for

B. A. Degree Programme in Psychology

B. A. Part – I

Structure and Syllabus in Accordance with
National Education Policy (NEP) 2020

Choice Based Credit System (CBCS)
With Multiple Entry and Multiple Exit Options

To be implemented from June, 2024 onwards

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's

Chhatrapati Shivaji College, Satara

(A Constituent College)

B.A. Part-I-Psychology

COURSE STRUCTURE

(w.e.f. June, 2024 onwards)

Year	Level	Semester	Course Type	Course No. & Course Title	Credit	
I	4.5	I	Course (Optional)- 1- DSC- I	DSC- I-Understanding Psychology	04	
			Course (Optional) - 2- DSC- I	DSC- I-Select from College Courses	04	
			Course (Optional)- 3- DSC- I	DSC- I-Select from College Courses	04	
			Open Elective Course (OE)	OE-I-(SM)- Introduction to Scientific Method OR OE-I-(STD)-Introduction to Science and Technology OR OE-I-(Logic)- Foundations of Deductive Logic(Traditional)	04	
				Ability Enhancement Course (AEC)	AEC-I-English for Communication Paper-I	02
				Indian Knowledge System (IKS) -Generic	IKS-I-Generic- Introduction to Indian Knowledge System	02
			Co-curricular Course (CC)	CC-I- Select any one from the college basket	02	
Cumulative Credits for Semester-I					22	
I	4.5	II	Course(Optional)- 1- DSC- II	DSC- II- Basic Principles of Psychology	04	
			Course(Optional) - 2- DSC-II	DSC- II- Continue As per Semester-I	04	
			Course(Optional)- 3- DSC- II	DSC- II- Continue As per Semester-I	04	
			Open Elective Course (OE)	OE-II-(SM)- Principles of Hypothesis and Explanation OR OE-II-(STD)-Application of Science and Technology OR OE-II-(Logic)- Foundations of Inductive Logic (Traditional)	04	
				Ability Enhancement Course (AEC)	AEC-II-English for Communication P-II	02
				Indian Knowledge System (IKS)	VEC-I-Democracy, Elections and Good Governance	02
			Co-curricular Course (CC)	CC- II- As per Semester-I	02	
Cumulative Credits for Semester -II					22	
Cumulative Credits for Semester-I& II					44	

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's

Chhatrapati Shivaji College, Satara

(A Constituent College)

B.A. Part-I Psychology

Course Structure

(w.e.f. June, 2024 onwards)

Sem.	Course Type	Course No. & Course Title	Course Code	Credit	Workload Per week	ESE	CCE	Total Marks
I	Course(Optional)-1- DSC- I	DSC- I- Understanding Psychology	DSCPSY01101	4	4 Lectures	80	20	100
I	Course(Optional) - 2- DSC- I	DSC- I- Select from College Courses	As per Course	4	4 Lectures	80	20	100
I	Course(Optional)-3- DSC- I	DSC- I- Select from College Courses	As per Course	4	4 Lectures	80	20	100
I	Open Elective Course (OE)	OE-I- (SM): Introduction to Scientific Method	OESNM01101	4	4 Lectures	80	20	100
		OE-I- (STD) : Introduction to Science and Technology	OESTD01101	4	4 Lectures	80	20	100
		OE-I-(Logic): Foundations of Deductive Logic (Traditional)	OELOG01101	4	4 Lectures	80	20	100
I	Ability Enhancement Course (AEC)	AEC-I- English for Communication Paper-I	AECENG01101	2	02 Lectures	40	10	50
I	Indian Knowledge System (IKS)- Generic	IKS-I-Generic- Introduction to Indian Knowledge System	IKSGEN01101	2	02 Lectures	40	10	50
I	Co-Curricular courses (CC)	CC-I- Select any one from College Basket	(As per Course)	2	02 Lectures	40	10	50
II	Course (Optional)-1- DSC-II	DSC- II-Basic Principles of Psychology	DSCPSY01202	4	4 Lectures	80	20	100
II	Course (Optional)-2- DSC-II	DSC- II- Continue As per Semester-I	As per Course	4	4 Lectures	80	20	100
II	Course (Optional) - 3- DSC-II	DSC- II- Continue As per Semester-I	As per Course	4	4 Lectures	80	20	100

II	Open Elective Course (OE)	OE-II- (SM): Principles of Hypothesis and Explanation	OESNM01202	4	04 Lectures	80	20	100
		OE-II-(STD): Application of Science and Technology	OESTD01202	4	04 Lectures	80	20	100
		OE-II- (Logic): Foundations of Inductive Logic (Traditional)	OEOLOG01202	4	04 Lectures	80	20	100
II	Ability Enhancement Course (AEC)	AEC-II- English for Communication Paper II	AECENG01202	2	02 Lectures	40	10	50
II	Value Education Course (VEC)	VEC-I- Democracy, Elections and Good Governance	VECDEG01201	2	02 Lectures	40	10	50
II	Co-curricular Courses (CC)	CC- II- As per Semester-I	(As per Course)	2	02 Lectures	40	10	50

ESE= End Semester Examination,

CCE= Continuous Comprehensive Evaluation

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's

Chhatrapati Shivaji College, Satara

(A Constituent College)

B.A. Part-I-Psychology

Equivalence

(w.e.f. June, 2024 onwards)

Sr. No.	Class	Sem.	Pattern	Title of the Paper (Old)	Credit	Title of the Paper (New)	Credit
1	B.A.I	I	NEP-2024-25	MM-I-Understanding Psychology	04	DSC- I- Understanding Psychology	04
2	B.A.I	I	NEP-2024-25	MM-II-Introduction to Environmental Psychology	02		
3	B.A.I	I	NEP-2024-25	OE-I-SM-I : Introduction to Scientific Method	04	OE-I-(SM)- Introduction to Scientific Method	04
4	B.A.I	I	NEP-2024-25	OE-I-STD-I: Introduction to Science and Technology	04	OE-I-(STD)-Introduction to Science and Technology	04
5	B.A.I	I	NEP-2024-25	-	-	OE-I-(Logic) Foundations of Deductive Logic (Traditional)	04
6	B.A.I	I	NEP-2024-25	VSC-I- Fundamentals of Deductive Logic	02		
7	B.A.I	I	NEP-2024-25	SEC-I-Psychological First Aid	02		
8	B.A.I	I	NEP-2024-25	-	-	IKS-I-Generic- Introduction to Indian Knowledge System	02
9	B.A.I	I	NEP-2024-25	VEC-I-Foundations of Indian Psychology	02		-
10	B.A.I	II	NEP-2024-25	MM-III-Basic Principles of Psychology	04	DSC- II- Basic Principles of Psychology	04
11	B.A.I	II	NEP-2024-25	MM-IV-Introduction to Criminal Psychology	02		
12	B.A.I	II	NEP-2024-25	MN-I-Introduction to Sport Psychology	02		
13	B.A.I	II	NEP-2024-25	OE-II-SM-II: Principles of Hypothesis and Explanation	04	OE-II-(SM)- Principles of Hypothesis and Explanation	04
14	B.A.I	II	NEP-2024-25	OE-II-STD-II: Application of Science and Technology In India	04	OE-II-(STD)-Application of Science and Technology	04
15	B.A.I	II	NEP-2024-25	-	-	OE-II-(Logic)- Foundations of Inductive Logic (Traditional)	04
16	B.A.I	II	NEP-2024-25	VSC-II- Application of Immediate and Mediate Inference	02		
17	B.A.I	II	NEP-2024-25	SEC-II-Fundamentals of Mindfulness	02		
18	B.A.I	II	NEP-2024-25	VEC-II-Personality Development Skills	02		

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)

Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-I

(w.e.f. June, 2024 onwards)

Course (Optional)-1-DSC-I–Psychology

Understanding Psychology

Course Code: DSCPSY01101

Credits: 04

=====

Preamble: This course is specially designed for the foundation building of the students by imparting knowledge about psychology. The choice-based credit and grading system to be implemented through this curriculum will help students develop an interest in the field of psychology. The students pursuing this course will help to understand the nature, scope, and subject matter of psychology, sensation, attention, perceptions, principles of learning, theories of learning, and memory. They will understand the research methods used in psychology and their applications in research. The objective of this course is to introduce concepts such as the foundations of psychology, goals of psychology, fields and research methods in psychology, attention and perception, sleep processes, learning processes, memory types, and forgetting processes. The board of studies briefly mentions the foundation, core, and applied components of this course. The student should get into the prime objectives and expected level of study with the required outcome in terms of basic and advanced knowledge at the examination level.

Objectives:

1. To acquaint the students with the goals, field, and research methods of psychology.
2. To introduce students to the nature, scope, and subject matter of psychology.
3. To introduce students to the research methods used in psychology.
4. To introduce students to attention, perceptions processes, and sleep processes.
5. To acquaint the students with the learning process.
6. To acquaint the students with the processes of memory and forgetting.
7. To introduce students to memory-improving techniques.

Course Outcomes: After studying the course the student will be able to ...

1. CO1: Understand the goals, field, and research methods of psychology.
2. CO2: Understand the nature, scope, and subject matter of psychology.
3. CO3: Applications of research methods in Psychology.
4. CO4: Understand the attention, perceptions processes, and sleep processes.
5. CO5: Understand the basic concepts and theories of learning.

6. CO6: Understand the application of the process of memory and forgetting process.
7. CO7: Understand the application of the memory-improving techniques.

Expected Skills:

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	<p>Introduction to Psychology</p> <p>1.1 Definition of Psychology</p> <p>a)Goals of Psychology</p> <p>1.2 Today’s Perspectives</p> <p>a) Psychodynamic Perspective</p> <p>b) Behavioral Perspective</p> <p>c) Cognitive Perspective</p> <p>d) Humanistic Perspective</p> <p>1.3 Conducting Psychological Research</p> <p>a) Naturalistic Observation</p> <p>b) Survey Research</p> <p>c) Experimental Research</p> <p>d) Correlational Research</p> <p>1.4 Psychology’s Future</p>	1	15	CO1 CO2 CO3
II	<p>Attention, Perception and Sleep</p> <p>2.1 Attention</p> <p>a) Definition & Nature</p> <p>b) Types of Attention</p> <p>c) Determinants of Attention</p> <p>2.2 The Gestalt Laws of Organization.</p> <p>a) Top-Down and Bottom -Up Processing.</p> <p>b) Depth Perception.</p> <p>c) Perceptual Constancy.</p> <p>d) Perceptual Illusions.</p> <p>2.3. Culture and Perception</p> <p>2.4 Sleep</p> <p>a)The Stages of Sleep</p> <p>b) REM Sleep</p> <p>c)Why Do We Sleep, and How Much Sleep is Necessary?</p> <p>d) The Function and Meaning of Dreaming</p>	1	15	CO4

<p>III</p>	<p>Learning 3.1. Definition of Learning 3.2 Classical Conditioning a) The Basics of Classical Conditioning b) Applying Conditioning Principles to Human Behavior c) Extinction d)Generalization and Discrimination 3.3 The basics of Operant Conditioning a) Reinforcement b) Positive Reinforces, Negative Reinforces and Punishment c) Schedule of Reinforcement d) Discrimination and Generalization in Operant Condition 3.4.Thorndike’s Laws</p>	<p>1</p>	<p>15</p>	<p>CO5</p>
<p>IV</p>	<p>Memory 4.1 The Foundations of Memory a) Sensory Memory b) Short Term Memory c) Working Memory 4.2 Long –term Memory a)Long Term Memory Modules/Units b) Semantic Networks c) The Neuroscience of Memory 4.3 Forgetting : When Memory fails? a) Why we forget? b) Proactive and Retroactive interference c) Memory Dysfunctions 4.4 Improving your Memory</p>	<p>1</p>	<p>15</p>	<p>CO7</p>

<p>Practical/ Applied Component: 1. Power point presentation on any syllabus related topic. 2. Project on any psychologist. 3. Home Assignment 4. Online/ Offline Unit Class Test 5. Case Study 6. Oral</p>	<p>CO1-7</p>
--	--------------

Reference Books:**a) Reading Books:**

- Feldman, R.S. (2019). *Understanding Psychology*, 12th Edition, Fourth reprint 2019, Chennai: McGraw Hill Education (India) Private Limited, ISBN-13:978-93-794-5, ISBN-10:93-5260-794-5
- Feldman. R.S. (2011): *Understanding Psychology*, 10th Edition, Chennai: McGraw hill Education (India) Private Ltd.
- Ciccarelli & Mayor (2008): *Psychology*, South Asian Edition, and first impression, Delhi: Pearson Education.

b) References:

- Abhyankar, Golvilkar & Oke (2014). *Maharashtra*. Delhi, Pearson Education.
- Abhyankar, Shobhana.; Oke, Amruta & Golvilkar, Sheela. (2014)*Manasshastra : VartanacheShastra*. Delhi, Pearson Education.
- Badgujar,Bachaw,& Shinde (2009).*SamanyaManasashatra*. 2ndAaurti. Nashik, Swayanbhu Pracation,
- Naik, Shirgawe, Ghaste, & Biraje (2013). *Maharashtra Parichay* , Pune, Nirali Pracation
- Shirgawe, Garud & Naik.(2013). *Samanye Maharashtra, Pune*, Nirali Pracation.

Journals:

1. Australian Journal of Psychology
2. British Journal of Educational Psychology
3. British Journal of Psychology
4. Canadian Journal of Experimental Psychology
5. Canadian journal of psychology
6. Contemporary Psychology: APA Review of Books
7. Journal of Experimental Psychology: General
8. American Journal of Psychology

Additional Reading:

1. Journal of Personality and Social Psychology
2. Journal of the American Academy of Child & Adolescent Psychiatry
3. Annual Review of Psychology
4. Australian Journal of Educational and Developmental Psychology

Medium of Instruction: Marathi/ English**Library & Equipment:**

1. Psychological Inventories
2. Psychological Apparatus
3. Psychology Lab
4. Sample Research Projects
5. Reference Books

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-I

(w.e.f. June, 2024 onwards)

Open Elective -1-OE-I–Scientific Method (SM)

Introduction to Scientific Method

Course Code: OESEN01101

Credits: 04

=====

Preamble: This course is specially designed to cater to students by imparting knowledge about scientific methods. The scientific method of B. A. Part-I can understand all the latest concepts in scientific methods in a brief but adequate manner. The students pursuing this course will expose the inventions in science and their impact on human life and society. The students pursuing this course will develop a scientific temperament, attitude, and understanding of its impact on human life. They will help to develop an understanding of the nature of science and the basics of postulates. The objective of this course is to introduce concepts such as observation, scientific thinking, and knowledge of social research. The board of studies has briefly mentioned the foundation, core, and applied components of the course. The student will be given the prime objectives and expected level of study with the required outcome in terms of basic and advanced knowledge at the examination level.

Objectives:

1. To make the students familiar with the nature of science.
2. To introduce students to the difference between natural and social sciences.
3. To acquaint the importance of the scientific method.
4. To acquaint the students with Postulates of Science.
5. To acquaint the students with Scientific Investigation.
6. To acquaint the students with techniques of social research.

Course Outcomes: After studying the course the student will be able to ...

1. CO1: Knowledge of the nature of science.
2. CO2: Understand the difference between natural and social sciences.
3. CO3: Understand the importance of the scientific method.
4. CO4: Understand the Postulates of Science.
5. CO5: Understand the Scientific Investigation.
6. CO6: Understand the observation and scientific thinking.

Expected Skills:

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Science: Nature and Function 1.1. Definition of Science, Function of Science 1.2. Science and Scientific Method, Common sense and Science 1.3. Science and Other Disciplines: Science and Religion, Science and Philosophy, Science and Literature, Science and Technology 1.4. Classification of Sciences a) Empirical and Non-empirical Sciences b) Natural and social Sciences c) Positive and Normative Sciences	1	15	CO1 CO2 CO3
II	Postulates of Science 2.1. Nature and Definition of Postulates, Deduction and Induction, Formal and Material Grounds 2.2. Principle of Uniformity of Nature 2.3. Principle of Causality 2.4. Principle of Objectivity, Principle of Empiricism	1	15	CO4
III	Scientific Investigation, Observation and Experiment 3.1. Definition, Nature and Characteristics of the Scientific Method 3.2. Stages of Scientific investigation & Rules of Definition 3.3. Nature and Characteristics of Scientific observation and Experimental Method, Fallacies of observation 3.4. Merits/ Advantages and demerits/ Limits of observation and Experiment	1	15	CO5
IV	Techniques of Social Research 4.1. Nature of Social Research 4.2. Field Study 4.3. Case Study and Survey 4.4. Questionnaire and Interview	1	15	CO6

Practical/ Applied Component:

1. Power point presentation on any syllabus related topic.
2. Project on any environmental issues.
3. Project on any Scientist work
4. Home Assignment

CO1-6

5. Online/ Offline Unit Class Test	
6. Case Study	
7. Oral	

Reference Books:

a) Reading Books:

- डॉ. दाभोळे, ज., रा. (२०१०). वैज्ञानिक पद्धती(प्रथम आवृत्ती). कोल्हापूर, फडके प्रकाशन.
- प्रा. देशमुख, एल., जी. (२०००). वैज्ञानिक पद्धती(प्रथम आवृत्ती). पुणे, निराली प्रकाशन.

b) References:

- Cohen and Nagel : *An Introduction to Logic and Scientific Method*
- Wolf: *Essentials of Scientific Method*
- Korade, Sawant : *Science and Scientific Method*
- K. T. Basantani : *Introduction to Logic*
- M.G. Patkar : *A.B.C. of Computer*
- Arain Mounal : *AIDS Education for student youth*
- Hirve, Pitake, Nargare, Mrs. Patankar: *Scientific Method: Shivaji University Publication*
- वाडेकर आणि हरोलीकर: *तर्कशास्त्र आणि वैज्ञानिक पद्धती*
- श्री. ह. दीक्षित: *तर्कशास्त्र*
- प्रा. हरवे, प्रा. नांगरे, प्रा. पिटके, प्रा. फरतारे, प्रा. वाघमोडे आणि प्रा. चौगुले: *वैज्ञानिक पद्धती: शिवाजी विद्यापीठ, कोल्हापूर*
- काळे, कावळे आणि हुल्याळकर: *तर्कशास्त्र आणि वैज्ञानिक पद्धती*
- शशिकांत वाकरे: *कॉम्प्युटरचा वाटाड्या*
- डॉ. प्रमोद जोगळेकर: *जैव-तंत्रज्ञान*

c) E-Content

- विज्ञान आणि त्याचे स्वरूप: <https://youtu.be/vffUu3ILjhA>
- व्यावहारिक ज्ञान आणि विज्ञान: <https://youtu.be/YyCcEFmpekc>
- कारणाचे स्वरूप: <https://youtu.be/hL4XwzgPeRQ>
- पर्यावरणाचे स्वरूप: https://youtu.be/xR-UmBovr_8
- शुद्ध शास्त्रे आणि उपयोजित शास्त्रे: <https://youtu.be/Ly-6VIw6ftA>
- पर्यावरण अर्थ आणि त्याचे प्रकार: <https://youtu.be/sZkYQzRvPiA>
- पर्यावरणाचे महत्व : https://youtu.be/xR-UmBovr_8
- पर्यावरणाची व्याप्ती: https://youtu.be/xR-UmBovr_8
- पर्यावरण प्रश्नावली : <https://youtu.be/YGbgSkmbIw>

Journals:

1. International Journal of Qualitative Studies in Education

2. International Journal of Research & Methods in Education
3. International Journal of Social Research Methodology
4. International Review of Qualitative Research
5. Journal of Educational & Behavioral Statistics
6. Journal of Educational Computing Research
7. Journal of Experimental Education
8. Journal of Multidisciplinary Evaluation (DOAJ, open access)
9. Journal of Psycho-educational Assessment

Additional Reading:

1. Journal of Psychopathology and Behavioral Assessment
2. Journal of Statistical Software (DOAJ, open access)
3. Journal of Statistics Education (DOAJ, open access)
4. Journal of the American Statistical Association
5. Journal of the Royal Statistical Society. Series B. Statistical Methodology
6. Linguistics and Education
7. Measurement: interdisciplinary research and perspectives
8. Measurement & Evaluation in Counseling & Development
9. Methodological Innovations (DOAJ, open access)

Medium of Instruction: Marathi/ English

Library & Equipment:

1. Sample Research Projects
2. Reference Books

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-I
(w.e.f. June, 2024 onwards)

Open Elective -1-OE-I–Science, Technology and Development (STD)

Introduction to Science and Technology

Course Code: OESTD01101

Credits: 04

=====

Preamble: This course is specially designed to cater to students by imparting knowledge about the introduction to science and technology. The introduction to science and technology students of B.A. Part- I can understand all the latest concepts in science, technology, and development in a brief but adequate manner. The students pursuing this course will expose the inventions in science and technology and their impact on human life, gain knowledge of science and technology and their impact on social and cultural development, and acknowledge science and technology to the students of the arts. They will develop an understanding of the latest concepts in science, technology, and development through the contributions of eminent scientists. The objective of this course is to introduce the latest concepts in science, technology, and development, specifically fundamental concepts in scientific thinking and the contributions of eminent scientists. The objective of this course is to introduce the latest concepts in science, technology, and development, the non-conventional power resources of India, and human health.

Objectives:

1. To study the fundamental concepts of science, technology and development.
2. To makes the students familiar with the science and technology.
3. To introduce students to the stages in the study of science.
4. To acquaint the students with science and superstitions.
5. To acquaint the students with contribution of eminent scientist in the Development of science and technology.
6. To acquaint the students with the Non-Conventional Power Resources of India.
7. To acquaint the students with Science, Technology, and Human Health.

Course Outcomes: After studying the course the student will be able to ...

1. CO1: Understand the latest concepts in Science Technology and development.
2. CO2: Understand in-depth about the concepts of science, technology and development.
3. CO3: Understand the stages in the study of science.
4. CO4: Understand the science and superstitions

5. CO5: Understand contribution of eminent scientists in the development of science and technology.
6. CO6: Understand the non- conventional power resources of India.
7. CO7: Understand the Science Technology and Human Health.

Expected Skills:

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Introduction to Science and Technology 1.1. Science and Technology: Definitions, Nature, Scope, Fundamental Concepts in Scientific Thinking 1.2. Stages in the Study of Science Observation, Experiment, Analysis, Result and Hypothesis. 1.3. Impact of Science and Technology on Society 1.4. Science and Superstitions, Development of Science and Technology	1	15	CO1 CO2 CO3 CO4
II	Contribution of Eminent Scientist in Fundamental Science 2.1. Aristotle 2.2. Newton 2.3. Lui Pascher 2.4. Albert Einstein & Thomas Alva Edison	1	15	CO5
III	Non-Conventional Power Resources of India 3.1. Resource: Concept and Importance of Power Resources 3.2. Types of Power Resource 3.3. Non-Conventional Power Resources a) Solar Energy b) Wind Energy c) Hydel Power Energy d) Nuclear Energy e) Bio Energy f) Geo-Thermal Energy g) Tidal Energy 3.4. Carbon Credit	1	15	CO6

IV	Science, Technology and Human Health 4.1. Nature and Importance of Scientific Attitude and Impact of Science and Technology on Human Health 4.2. Human Blood: Blood Groups, Importance of Matching Blood Groups in Human Health and Science for Health 4.3. AIDS: A Challenge before World, Facts, Figures, Causes, Effects, Treatment, Social Outlook, Addiction a Social Problem, types, Causes, Effects and Solution 4.4. COVID: A Challenge before World, Facts, Figures, Causes, Symptoms, Treatment, Social Outlook. Need of Cleanliness: Swachhata Bharat Abhiyan	1	15	CO7
Practical/ Applied Component: 1. Power point presentation on any syllabus related topic. 2. Project on any environmental issues. 3. Project on any scientist 4. Home Assignment 5. Online/ Offline Unit Class Test 6. Case Study 7. Oral			CO1-7	
Reference Books: a) Reading Books: <ul style="list-style-type: none"> • पवार जयसिंगराव, आणि सूर्यवंशी निशांत: विज्ञान, तंत्रज्ञान आणि प्रगती. कोल्हापूर, फडके प्रकाशन • पाटील हरिश्चंद्र, घस्ते अनिल, पाटील अरुण, माने देशमुख रामराजे: विज्ञान, तंत्रज्ञान आणि प्रगती, पुणे, निराली प्रकाशन b) Reference: <ul style="list-style-type: none"> • Annual Review of Information Science and Technology (ARIST) 39. By Blaise Cronin, Information Today, 2004. • Encyclopedia of Computer Science and Technology (Facts on File Science Library): Import, 15 Jan 2009 • Encyclopedia of Space Science and Technology, Wiley Online Library. • Indian Ocean Research Volumes: Geopolitical Orientations, Regionalism and Security in the Indian Ocean (Routledge Revivals), Dennis Rumley, Sanjay Chaturvedi (Editor) 2015 • Disaster Management in India, Kadambari Sharma and Chiranjeev Avinash, Jnanda Prakashan, 2010. • Bagila A.V. (Ed1972) <i>Science and Society</i>, Lavani Publication House, • Butle J.A.V, <i>Science and Human Life</i>, London Pergamon Press. • Encyclopaedia Britannica. • Flower W.S, (1962). <i>The Development of Scientific Method</i>, London, Pergamon Press. 				

c) मराठी पुस्तके

- विज्ञानाचा समाज धारणेवरील परिणाम – दीक्षित कमलाकर, समाज प्रबोधन संस्था
- शास्त्रीय विचार पद्धती - अ. भि. शहा, समाज प्रबोधन संस्था
- जीवनाभिमुख विज्ञान – शिवाजी विद्यापीठ प्रकाशन
- वैज्ञानिक अभ्यासाची गाथा- शिवाजी विद्यापीठ प्रकाशन
- डॉ. दाभोळे, ज., रा. (२०१०). वैज्ञानिक पद्धती(प्रथम आवृत्ती). कोल्हापूर, फडके प्रकाशन.
- प्रा. देशमुख, एल., जी. (२०००). वैज्ञानिक पद्धती(प्रथम आवृत्ती). पुणे, निराली प्रकाशन.
- मराठी विश्वकोश

d) Websites:

- e-PG Pathshala: <https://epgp.inflibnet.ac.in/>
- MOOCS - NPTEL: <https://nptel.ac.in/>
- MOOCS - SWAYAM: <https://swayam.gov.in/>
- National Digital Library of India: <https://ndl.iitkgp.ac.in/>
- Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

Journals:

1. International Journal of Qualitative Studies in Education
2. International Journal of Research & Methods in Education
3. International Journal of Social Research Methodology
4. International Review of Qualitative Research
5. Journal of Educational & Behavioral Statistics
6. Journal of Educational Computing Research
7. Journal of Experimental Education
8. Journal of Multidisciplinary Evaluation (DOAJ, open access)
9. Journal of Psycho-educational Assessment

Additional Reading:

1. Journal of Psychopathology and Behavioral Assessment
2. Journal of Statistical Software (DOAJ, open access)
3. Journal of Statistics Education (DOAJ, open access)
4. Journal of the American Statistical Association
5. Journal of the Royal Statistical Society. Series B. Statistical Methodology
6. Linguistics and Education
7. Measurement: interdisciplinary research and perspectives
8. Measurement & Evaluation in Counseling & Development
9. Methodological Innovations (DOAJ, open access)

Medium of Instruction: Marathi/ English

Library & Equipment:

1. Reference Books (Departmental Library)

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-I

(w.e.f. June, 2024 onwards)

Open Elective -1-OE-I–Logic (Traditional)

Foundations of Deductive Logic (Traditional)

Course Code: OELOG01101

Credits: 04

=====

Preamble: This course is specially designed to cater to the students by imparting knowledge and vocational skills about deductive logic. Logic is an important tool to develop critical thinking. When used in arguments and decision-making, deductive reasoning is used as a guideline to present factual evidence. Deductive reasoning allows them to apply the theories to specific situations. The logic study will students develop analytical soft skills. The students pursuing this course will understand the nature and scope of deductive logic and the classification of propositions. The objective of this course is to introduce the latest concepts in deductive logic.

Objectives:

1. To acquaint the students with basic concepts of logic.
2. To introduce students the nature and Scope of Logic.
3. To introduce students the propositions, term, laws of thought.
4. To acquaint the students with immediate inference.
5. To introduce students the mediate inference and dilemma.

Course Outcome: After studying the course the student will be able to ...

1. CO1: Describe the basic concepts of logic.
2. CO2: Understand the nature and Scope of Logic.
3. CO3: Understand the propositions, term, laws of thought
4. CO4: Understand the immediate inference.
5. CO5: Understanding mediates inference and dilemma.

Expected Skills:

1. Implanting analytical thinking.
2. Providing applications of theories in practical.
3. Understanding skill
4. Comprehension skill
5. Analytical skill
6. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Nature and scope of Logic 1.1. Kinds of Human knowledge 1.2. Definitions and Nature of Logic 1.3. Definition, Nature, Importance and Types of Inference 1.4. Difference between deductive and inductive Inference	1	15	CO1 CO2
II	Propositions , Term, Laws of Thought 2.1. Definition, Nature and Analysis of Proposition 2.2. Types of Terms 2.3. Classification Propositions a) Traditional Classification of Propositions b) Modern Classification of Propositions 2.4. Laws of Thought	1	15	CO3
III	Immediate Inference 3.1. Oppositions of prepositions 3.2. Eduction :Conversion and observation	1	15	CO4
IV	Mediate Inference 4.1. Categorical syllogism : Nature, general rules, figures and moods 4.2. Mixed Hypothetical Syllogism : rules, kinds and fallacies a) Constructive Mood or Modus Ponens, Destructive Mood or Modus Tollens b) Mixed Alternative Syllogism: Definition, Types 4.3. Dilemma: Definition and Types	1	15	CO5
Practical/ Applied Component: 1. Power point presentation on any syllabus related topic. 2. Project on any Philosopher's Work 3. Home Assignment 4. Online/ Offline Unit Class Test 5. Project on Applications of Deductive Logic in Life 6. Oral				CO1- TO CO5

Reference Books**a) Reading Book**

- Khandagale, Chandraknt (2015), *Nigami Tarkshashstra*. Sangali: Sau. Mayadevi Khandagale

b) Reference:

- Dikshit, Shrinivas (1967), *Tarkshashtra*. Kolhapur: Maharashtra Granth Bhandar
- Hulyalkar, S. G.; Kale S. V.; Kawale, S. R.(1959), *Sugam Tarkashastra aani vaidnyanik padhatti*. Pune :AnaathVidyarthiGruhaPrakashan.
- Hurley, P., & Watson, L.(2018), *A Concise Introduction to Logic*. Delhi: Wadsworth
- Kadam, Mukund (1969),*Sulabh Trkshastra*. Satara: Ravil Publication
- Khandagale, Chandraknt (2015), *Nigami Tarkshashstra*. Sangali: Sau. Mayadevi Khandagale
- Pataskar,N.(1968), *Tarkshastra*. Kolhapur: Maharashtra Granth Bhandar
- Phadke, N. C.; (1959), *Tarkshastra aani vaidnyanik padhatti*. Pune :Deshmukh Prakashan

Journals:

1. Journal of Philosophical Logic, Springer
2. Journal of Logic and Computation, Oxford Academic
3. Journal of Applied Logic, Science Direct
4. History and Philosophy of Logic, Taylor & Francis Online

Additional Reading:

1. Logic journal of IGPL, Oxford Academic
2. The Journal of Symbolic Logic, JSTOR

Medium of Instruction :Marathi / English**Library & Equipment:**

1. Sample Research Projects
2. Reference Books

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)

Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-II

(w.e.f. June, 2024 onwards)

Course (Optional)-2-DSC-II-Psychology

Basic Principles of Psychology

Course Code: DSCPSY01202

Credits: 04

=====

Preamble: This course is specially designed to cater to foundation building of the students by imparting knowledge about the psychology. The students pursuing this course will help understanding of basic principles of Psychology, Familiarity with the motivation, emotion, personality, and intelligence. The students will have help to understanding of research methods used in Psychology and their applications in research. The objective of this course is to introduce the concepts such as, motivational theories and types, emotion theories and types, personality approaches and measurement as well as theories intelligence and measurement. The board of studies briefly mentions the foundation, core, and applied components of this course. The student should get into the prime objectives and expected level of study with the required outcome in terms of basic and advanced knowledge at the examination level.

Objectives:

1. To makes the students familiar with the motivational theories.
2. To introduce students to the human needs.
3. To acquaint the students with classification of emotions and theories
4. To introduce students to the classification of emotions.
5. To acquaint the students with personality approaches.
6. To introduce students to the assessment of personality.
7. To acquaint the students with intelligence approaches.
8. To introduce students to the measurements of intelligence.

Course Outcomes: After studying the course the student will be able to ...

1. CO1: Applications of motivational theories.
2. CO2: Understand the classification of motivation.
3. CO3: Applications of emotion theories.
4. CO4: Understand the classification of emotion.
5. CO5: Understand the personality approaches
6. CO6: Applications of assessment of personality
7. CO7: Understand the intelligence approaches

8. CO8: Applications of measurements of intelligence.

Expected Skills:

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Motivation 1.1. Definition and Nature of Motivation 1.2. Exploring Motivation/ Theories of Motivation a) Instinct Approaches b) Drive-Reduction Approaches c) Arousal Approaches d) Incentive Approaches e) Cognitive Approaches 1.3. Maslow’s Hierarchy: Ordering Motivational Needs 1.4. Human Needs and Motivation a) The Motivation behind Hunger and Eating b) The Need for Achievement c) The Need for Affiliation d) The Need for Power	1	15	CO1 CO2
II	Emotions 1.1. Definition of Emotion 1.2. Understanding Emotional Experiences a) The Functions of Emotions b) Determining the range of Emotions 2.3. The Roots of Emotions a)The James – Lange Theory b) The Cannon - Bard Theory c)The Schechter - Singer Theory d) Contemporary Perspectives on the Neuroscience of Emotions e) Making sense of the Multiple Perspectives on Emotion 2.4. Lazarus cognitive theory	1	15	CO3 CO4
III	Personality 3.1.Psychodynamic Approaches to Personality a) Freud’s Psychoanalytic Theory b) The Neo-Freudian Psychoanalysts			CO5

	i) Jung's Collective Unconscious ii) Adler Neo-Freudians Perspective 3.2. Trait Approaches to Personality a) Allport's Trait Theory: b) Cattell and Eysenck c) The Big Five Personality Traits 3.3. Learning Approaches a) Social Cognitive Approaches to Personality 3.4. Assessing Personality a) Self Report Measures of Personality b) Projective Methods c) Behavioral assessment	1	15	CO6
IV	Intelligence 4.1. What is Intelligence? 4.2. Theories of Intelligence a) Fluid and Crystallized intelligence b) Gardner's Multiple intelligence c) Practical and Emotional Intelligence 4.3. Assessing Intelligence a) Binet and Development of IQ test. b) Contemporary IQ test 4.4. Variations in Intellectual Ability a) Intellectual disabilities b) The intellectually gifted	1	15	CO7 CO8

Practical work: Case Study / Field Survey / Field Visits / Project: 1. Power point presentation on any syllabus related topic. 2. Project on any psychologist's Work. 3. Home Assignment 4. Online/ Offline Unit Class Test 5. Case Study 6. Oral	CO1-8
Reading Books: <ul style="list-style-type: none"> Feldman, R.S. (2019). <i>Understanding Psychology</i>, 12th Edition, Fourth reprint 2019, Chennai: McGraw Hill Education (India) Private Limited, ISBN-13:978-93-794-5, ISBN-10:93-5260-794-5 Feldman. R.S.(2011):<i>Understanding Psychology</i>, 10th Edition, Chennai: McGraw hill Education(India) Private Ltd. Ciccarelli & Mayor (2008): <i>Psychology</i>, South Asian Edition, and first impression, Delhi: Pearson Education. 	

References:

- Abhyankar, Golvilkar & Oke (2014). *Maharashtra*. Delhi, Pearson Education.
- Abhyankar, Shobhana.; Oke, Amruta & Golvilkar, Sheela. (2014)*Manasshastra : VartanacheShastra*. Delhi, Pearson Education.
- Badgular, Bachaw, & Shinde (2009). *SamanyaManasashatra*. 2nd Aaurti. Nashik, Swayanbhu Pracation,
- Naik, Shirgawe, Ghaste, & Biraje (2013). *Maharashtra Parichay*, Pune, Nirali Pracation
- Shirgave, Garud & Naik. (2013). *Samanye Maharashtra, Pune*, Nirali Pracation.

Research Journals

1. American Journal of Psychology
2. Australian Journal of Psychology
3. British Journal of Educational Psychology
4. British Journal of Psychology
5. Canadian Journal of Experimental Psychology
6. Canadian journal of psychology
7. Contemporary Psychology: APA Review of Books
8. Journal of Experimental Psychology: General

Additional readings:

1. Journal of Personality and Social Psychology
2. Journal of the American Academy of Child & Adolescent Psychiatry
3. Annual Review of Psychology
4. Australian Journal of Educational and Developmental Psychology

Medium of Instruction: Marathi/ English**Library & Equipment:**

1. Psychological Inventories
2. Psychological Apparatus
3. Psychology Lab
4. Sample Research Projects
5. Reference Books

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-II

(w.e.f. June, 2024 onwards)

Open Elective-2-OE-II-Scientific Method (SM)

Principles of Hypothesis and Explanation

Course Code: OESNM01202

Credits: 04

=====

Preamble: This course is specially designed to cater to the students by imparting knowledge about scientific methods. The students pursuing this course will be helped to expose the inventions in science and their impact on human life and society. The students pursuing this course would have to develop scientific temperament, attitude, and its impact on human life. They will also have to develop an understanding of the basics of hypothesis, information, laws, and scientific explanation. The objective of this course is to introduce the concepts such as hypotheses, information, laws, and scientific explanation. The students pursuing this course will be helped to develop scientific temperament, attitude, and its impact on human life. They will also have to develop an understanding of scientific attitude, communication, and information technology, and awareness about population control. The objective of this course is to introduce the concepts such as scientific attitude, communication and information technology, and awareness about population control. The board of studies has briefly mentioned the foundation, core, and applied components of the course/paper. The student should get into the prime objectives and expected level of study with the required outcome in terms of basic and advanced knowledge at the examination level.

Objectives:

1. To makes the students familiar with the hypothesis.
2. To acquaint the students with importance of hypothesis.
3. To acquaint the students with Laws.
4. To introduce students to the scientific explanation.
5. To acquaint the students with scientific attitude.
6. To introduce students familiar with the science of health.
7. To acquaint the students with computer education.
8. To acquaint the students with communication and information technology.
9. To introduce students with the use and importance of computer.

Course Outcomes: After studying the course the student will be able to ...

1. CO1: Understanding of hypothesis.

2. CO2: Understand the importance of hypothesis.
3. CO3: Understanding of information, laws and scientific explanation.
4. CO4: Understand the scientific explanation.
5. CO5: Awareness about scientific attitude.
6. CO6: Understanding of the science of health.
7. CO7: Awareness about computer education.
8. CO8: Understanding of communication and information technology.
9. CO9: Understanding of the use and importance of computer.

Expected Skills:

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Hypothesis 1.1. Definition and nature of hypothesis and Importance of hypothesis 1.2. Conditions of valid hypothesis 1.3. Verification of hypothesis 1.4. Proof of hypothesis	1	15	CO1 CO2
II	Laws and Scientific Explanation 2.1. Meaning of Law and Kinds of Laws 2.2. Kinds of Laws of Nature 2.3. Nature of Scientific Explanation, Popular and Scientific explanation 2.4. Definition and Kinds of Scientific explanation and Explanation of facts and laws	1	15	CO3 CO4
III	Scientific Attitude 3.1. Nature and importance of Scientific Attitude 3.2. Ecological Balance, & Population Control 3.3. Scientific attitude towards water consumption 3.4. Science for Health, AIDS and COVID Awareness,	1	15	CO5 CO6
IV	Computer Education 4.1. Definition and Nature of Computer, 4.2. Hardware and Software 4.3. Parts of Computer, Generation of Computer, Types of Computer and Computer Virus 4.4. Uses and importance of Computer and Internet in various fields	1	15	CO7 CO8 CO9

Practical/ Applied Component:

1. Power point presentation on any syllabus related topic.
2. Project on any environmental issues.
3. Project on any scientist's Work
4. Home Assignment
5. Online/ Offline Unit Class Test
6. Case Study

CO1-9

Reference Books:**a) Reading Books:**

- डॉ. दाभोळे, ज., रा. (२०१०). वैज्ञानिक पद्धती (प्रथम आवृत्ती). कोल्हापूर, फडके प्रकाशन.
- प्रा. देशमुख, एल., जी. (२०००). वैज्ञानिक पद्धती (प्रथम आवृत्ती). पुणे, निराली प्रकाशन.

b) Reference Books:

- Cohen and Nagel : *An Introduction to Logic and Scientific Method*
- Wolf: *Essentials of Scientific Method*
- Korade, Sawant : Science and Scientific Method
- K. T. Basantani : Introduction to Logic
- M.G. Patkar : A.B.C. of Computer
- Arain Mounal : AIDS Education for student youth
- Hirve, Pitake, Nargare, Mrs. Patankar: Scientific Method: Shivaji University Publication
- वाडेकर आणि हरोलीकर: तर्कशास्त्र आणि वैज्ञानिक पद्धती
- श्री. ह. दीक्षित: तर्कशास्त्र
- प्रा. हरवे, प्रा. नांगरे, प्रा. पिटके, प्रा. फरतारे, प्रा. वाघमोडे आणि प्रा. चौगुले: वैज्ञानिक पद्धती: शिवाजी विद्यापीठ, कोल्हापूर
- काळे, कावळे आणि हुल्याळकर: तर्कशास्त्र आणि वैज्ञानिक पद्धती
- शशिकांत वाकरे: कॉम्प्युटरचा वाटाड्या
- डॉ. प्रमोद जोगळेकर: जैव-तंत्रज्ञान

c) E-Content

- विज्ञान आणि त्याचे स्वरूप: <https://youtu.be/vffUu3ILjhA>
- व्यावहारिक ज्ञान आणि विज्ञान: <https://youtu.be/YyCcEFmpekc>
- कारणाचे स्वरूप: <https://youtu.be/hL4XwzgPeRQ>
- पर्यावरणाचे स्वरूप: https://youtu.be/xR-UmBovr_8
- शुद्ध शास्त्रे आणि उपयोजित शास्त्रे: <https://youtu.be/Ly-6VIw6ftA>
- पर्यावरण अर्थ आणि त्याचे प्रकार: <https://youtu.be/sZkYQzRvPiA>
- पर्यावरणाचे महत्व : https://youtu.be/xR-UmBovr_8
- पर्यावरणाची व्याप्ती: https://youtu.be/xR-UmBovr_8
- पर्यावरण प्रश्नावली : <https://youtu.be/YGbggoSkmbllw>

Journals:

1. International Journal of Qualitative Studies in Education
2. International Journal of Research & Methods in Education
3. International Journal of Social Research Methodology
4. International Review of Qualitative Research
5. Journal of Educational & Behavioral Statistics
6. Journal of Educational Computing Research
7. Journal of Experimental Education
8. Journal of Multidisciplinary Evaluation (DOAJ, open access)
9. Journal of Psycho-educational Assessment

Additional Reading:

1. Journal of Psychopathology and Behavioral Assessment
2. Journal of Statistical Software (DOAJ, open access)
3. Journal of Statistics Education (DOAJ, open access)
4. Journal of the American Statistical Association
5. Journal of the Royal Statistical Society. Series B. Statistical Methodology
6. Linguistics and Education
7. Measurement: interdisciplinary research and perspectives
8. Measurement & Evaluation in Counseling & Development
9. Methodological Innovations (DOAJ, open access)

Medium of Instruction: Marathi/ English

Library & Equipment:

1. Sample Research Projects
2. Reference Books

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-II
(w.e.f. June, 2024 onwards)

Open Elective -2-OE-II-Science, Technology and Development (STD)
Applications of Science and Technology

Course Code: OESTD01202

Credits: 04

=====

Preamble: This course is specially designed to cater to the students by imparting knowledge about Applications of Science and Technology. The students pursuing this course will be exposed to the inventions in science and Technology and their impact on human life, give knowledge of science and technology and their impact on social and cultural development, and acknowledgment of Science and Technology to the students of Arts. They will develop an understanding of the latest concepts in science technology and development, disaster management, communication, and information technology. The objective of this course is to introduce the latest concepts in Science, Technology and Development, disaster management, and communication. Another, objective of this course is to introduce the latest concepts in Science, Technology and Development, space and ocean research, defense, and agriculture.

Objectives:

1. To acquaint the students with fundamental concepts of science, technology, and development.
2. To acquaint the students with earthquakes, Floods, droughts, fires, Accidents, and Crowds as disasters.
3. To introduce students to the various types of disasters and their management.
4. To introduce students to the communication and information technology.
5. To acquaint the students with Science and Technology in Space and Ocean Research.
6. To introduce students to the development of science and technology in India's Defence and Agriculture.

Course Outcomes: After studying the course the student will be able to

1. CO1: Understand the latest concepts in Science, Technology and, development.
2. CO2: Understand the earthquakes, Floods, droughts, fires, Accidents, and, crowds as disasters.
3. CO3: Understand the types .of disasters and their management
4. CO4: Understand the communication and information technology.

5. CO5: Understand and Application of Science and Technology in Space, and Ocean Research.
6. CO6: Understand the development of science and technology in India's Defence and, agriculture.

Expected Skills:

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Disaster Management 1.1 Disaster: Concept and Nature 1.2 Earthquake & Fire 1.3 Flood & Drought 1.4. Accident & Crowd	1	15	CO3
II	Means of Communication and Information Technology 2.1 A Brief History of Communication and Information Technology 2.2 Origin, Development and Importance of Computer 2.3.Types of Computer, Computer Mechanism and Operating System 2.4.Computer Network , Internet, and Computer Viruses	1	15	CO4
III	Science Technology in Space Research and Ocean Research 3.1 Beginning of Satellite Era in the World 3.2 Rocket Technology 3.3 Artificial Satellite :Types and Usages 3.4 Satellite Programme of India & Importance of Oceanic Study and Progress of Indian Oceanic Research	1	15	CO5
IV	Science Technology in India's Defence and Agriculture 4.1 Science Technology in National Defence and Defence Research and Development Organization (DRDO) 4.2 New Technology in Irrigation System,	1	15	CO6

	Chemical and Bio Fertilizers 4.3. Modern equipment's in agriculture 4.4. Plant Protection Methods and Modern agro-technologies			
--	--	--	--	--

<p>Practical/ Applied Component:</p> <ol style="list-style-type: none"> 1. Power point presentation on any syllabus related topic. 2. Project on any manmade and natural issues. 3. Project on any scientists 4. Home Assignment 5. Online/ Offline Unit Class Test 6. Case Study 7. Oral 	CO1-6
<p><u>Reference Books:</u></p> <p>a) <u>Reading Books:</u></p> <ul style="list-style-type: none"> • पवार जयसिंगराव, आणि सूर्यवंशी निशांत: <i>विज्ञान, तंत्रज्ञान आणि प्रगती</i>. कोल्हापूर, फडके प्रकाशन • पाटील हरिश्चंद्र, घस्ते अनिल, पाटील अरुण, माने देशमुख रामराजे: <i>विज्ञान, तंत्रज्ञान आणि प्रगती</i>, पुणे, निराली प्रकाशन <p>b) <u>Reference Books:</u></p> <ul style="list-style-type: none"> • Annual Review of Information Science and Technology (ARIST) 39. By Blaise Cronin, Information Today, 2004. • Encyclopedia of Computer Science and Technology (Facts on File Science Library): Import, 15 Jan 2009 • Encyclopedia of Space Science and Technology, Wiley Online Library. • Indian Ocean Research Volumes: Geopolitical Orientations, Regionalism and Security in the Indian Ocean (Routledge Revivals), Dennis Rumley, Sanjay Chaturvedi (Editor) 2015 • Disaster Management in India, Kadambari Sharma and Chiranjeev Avinash, Jnanda Prakashan, 2010. • Bagila A.V. (Ed1972) <i>Science and Society</i>, Lavani Publication House, • Butle J.A.V, <i>Science and Human Life</i>, London Pergamon Press. • Encyclopaedia Britannica. • Flower W.S, (1962). <i>The Development of Scientific Method</i>, London, Pergamon Press. <p>मराठी पुस्तके</p> <ul style="list-style-type: none"> • विज्ञानाचा समाज धारणेवरील परिणाम – दीक्षित कमलाकर, समाज प्रबोधन संस्था • शास्त्रीय विचार पद्धती - अ. भि. शहा, समाज प्रबोधन संस्था • जीवनाभिमुख विज्ञान – शिवाजी विद्यापीठ प्रकाशन 	

- वैज्ञानिक अभ्यासाची गाथा- शिवाजी विद्यापीठ प्रकाशन
- डॉ. दाभोळे, ज., रा. (२०१०). वैज्ञानिक पद्धती(प्रथम आवृत्ती). कोल्हापूर, फडके प्रकाशन.
- प्रा. देशमुख, एल., जी. (२०००). वैज्ञानिक पद्धती(प्रथम आवृत्ती). पुणे, निराली प्रकाशन.
- मराठी विश्वकोश

Websites:

- e-PG Pathshala: <https://epgp.inflibnet.ac.in/>
- MOOCS - NPTEL: <https://nptel.ac.in/>
- MOOCS - SWAYAM: <https://swayam.gov.in/>
- National Digital Library of India: <https://ndl.iitkgp.ac.in/>
- Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

Journals:

1. International Journal of Qualitative Studies in Education
2. International Journal of Research & Methods in Education
3. International Journal of Social Research Methodology
4. International Review of Qualitative Research
5. Journal of Educational & Behavioral Statistics
6. Journal of Educational Computing Research
7. Journal of Experimental Education
8. Journal of Multidisciplinary Evaluation (DOAJ, open access)
9. Journal of Psycho-educational Assessment

Additional Reading:

1. Journal of Psychopathology and Behavioral Assessment
2. Journal of Statistical Software (DOAJ, open access)
3. Journal of Statistics Education (DOAJ, open access)
4. Journal of the American Statistical Association
5. Journal of the Royal Statistical Society. Series B. Statistical Methodology
6. Linguistics and Education
7. Measurement: interdisciplinary research and perspectives
8. Measurement & Evaluation in Counseling & Development
9. Methodological Innovations (DOAJ, open access)

Medium of Instruction: Marathi/ English

Library & Equipment:

1. Reference Books (Departmental Library)

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

Syllabus for

B. A. Part-I: Semester-II
(w.e.f. June, 2024 onwards)

Open Elective -2-OE-II-Logic (Traditional)
Foundations of Inductive Logic (Traditional)

Course Code: OELOG01202

Credits: 04

=====

Preamble: This course is specially designed to cater to the students by imparting knowledge and vocational skills about inductive logic. Inductive logic helps to develop scientific attitude and makes familiar with research methods. It is attempted to enable students use principles of hypothesis and laws of nature and scientific explanation. The objective of this course is to introduce the latest knowledge and skills about inference.

Objectives:

1. To acquaint the students with inductive leap and empirical knowledge.
2. To introduce students the research methods.
3. To acquaint the students with Generate valid hypothesis.
4. To introduce students the laws of nature and scientific explanation.

Course Outcomes: After studying the course the student will be able to ...

1. CO:1 Understanding inductive leap and empirical knowledge
2. CO:2 Make student familiar with research methods
3. CO:3 Generate valid hypothesis
4. CO:4 Understand laws of nature and scientific explanation.

Expected Skills:

1. Implanting analytical thinking.
2. Providing applications of theories in practical.
3. Understanding skill
4. Comprehension skill
5. Analytical skill
6. Comparison skill

Module No.	Title & Content	Credit	Hours	COs
I	Nature and kinds of Inductive Inference 1.1. Simple Enumeration 1.2. Analogy	1	15	CO1

	1.3. Scientific Induction			
II	Grounds of Induction 2.1.Principles of causality and uniformity of nature 2.2.Observation :Characteristics, fallacies 2.3.Experiment : Nature , Merits and Demerits	1	15	CO2
III	Hypothesis 3.1. Definition, nature and importance of hypothesis 3.2. Conditions of valid hypothesis 3.3. Verification and proof of hypothesis	1	15	CO3
IV	Laws of Nature and Explanation 4.1. Meaning and Types of Laws and Principles 4.2. Laws of nature 4.3. Scientific Explanation: kinds of Scientific explanation	1	15	CO4
Practical/ Applied Component: 1. Power point presentation. 2. Project on any Philosopher's Work 3. Home Assignment 4. Online/ Offline Unit Class Test				CO1 To CO4
Reference Books: <ul style="list-style-type: none"> • Dikshit, Shrinivas (1967), <i>Tarkshashtra</i>. Kolhapur: Maharashtra Granth Bhandar • Hulyalkar, S. G.; Kale S. V.; Kawale, S. R.(1959), <i>Sugam Tarkashastra aani vaidnyanik padhatti</i>. Pune :AnaathVidyarthiGruhaPrakashan. • Hurley, P., & Watson, L.(2018), <i>A Concise Introduction to Logic</i>. Delhi: Wadsworth • Kadam, Mukund (1969),<i>Sulabh Trkshastra</i>. Satara: Ravil Publication • Khandagale, Chandraknt (2015), <i>Nigami Tarkshashtra</i>. Sangali: Sau. Mayadevi Khandagale • Pataskar,N.(1968), <i>Tarkshastra</i>. Kolhapur: Maharashtra Granth Bhandar • Phadke, N. C.; (1959), <i>Tarkshastra aani vaidnyanik padhatti</i>. Pune :Deshmukh Prakashan 				
Journals: <ol style="list-style-type: none"> 1. Journal of Philosophical Logic, Springer 2. Journal of Logic and Computation, Oxford Academic 3. Logic journal of IGPL, Oxford Academic 4. History and Philosophy of Logic, Taylor & Francis Online 				
Additional Reading: <ol style="list-style-type: none"> 1. The Journal of Symbolic Logic, JSTOR 2. Journal of Applied Logic, Science Direct 				
Medium of Instruction : Marathi / English				
Library & Equipment: <ol style="list-style-type: none"> 1. Reference Books (Departmental Library) 				

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA

Rayat Shikshan Sanstha's
Chhatrapati Shivaji College, Satara
(A Constituent College)
Faculty of Humanities

B. A. Part I: Semester-I & II
(w.e.f. June, 2024 onwards)
Name of the Programme: Psychology
Evaluation Pattern for B. A. I

1. **Examination Pattern: 80:20**

(80 Weightage for End Semester Examination & 20 Weightage for Continuous Comprehensive Evaluation)

2. **Nature of Question Paper:**

End Semester Examination Question Paper Pattern for 80 Marks

Instruction: 1) All Questions are Compulsory.
2) All Questions carry equal marks.
3) Figures to the right indicate full marks.

Day and Date:
Time: Three Hours

Total Marks: 80

Q. 1. A) Choose the correct alternatives from the following	10
प्रश्न १. अ) खालीलपैकी योग्य पर्याय निवडा .	
Q. 1. B) Write answer in one sentence	10
प्रश्न १. ब) एका वाक्यात उत्तरे लिहा.	
Q.2. Write short notes (Four out of Six)	20
प्रश्न २. टीपा लिहा. (सहा पैकी चार)	
Q.3. Write short answer (Two out of Four)	20
प्रश्न ३. थोडक्यात उत्तरे लिहा. (चार पैकी दोन)	
Q.4. Answer the following question in broad. (One out of Two)	20
प्रश्न ४. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक)	

End Semester Examination Question Paper Pattern for 40 Marks

- Instruction:** 1) All Questions are Compulsory.
2) All Questions carry equal marks.
3) Figures to the right indicate full marks.

Day and Date:

Total Marks: 40

Time: One and half Hours

Q. 1. A) Choose the correct alternatives from the following प्रश्न १ अ) खालीलपैकी योग्य पर्याय निवडा.	05
Q. 1. B) Answer in one Sentence प्रश्न १ ब) एका वाक्यात उत्तरे लिहा.	05
Q.2. Write short notes (Two out of Four) प्रश्न २. टीपा लिहा. (चार पैकी दोन)	10
Q.3. Answer the following question in broad. (One out of Two) प्रश्न ३. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक)	20

3. CCE (Continuous Comprehensive Evaluation)

3.1 Activities 20 Marks: For Major paper of 04 credit

1. Subject Specific Activity-20 Marks

3.2 Activities 20 Marks: For OE & Other 04 Credit

1. Online Class Test - 10 Marks
2. Oral -10 Marks

3.3 Activities 10 Marks: For All 02 credit papers

1. Subject Specific Activity - 10 Marks



Dr. G. V. Lokhande
Head
Department of Psychology



Dr. G. V. Lokhande
Chairman
BoS in Psychology



Prof. (Dr.) A. K. Wavare
Dean
Faculty of Humanities



Dr. R. S. More
Principal
Chhatrapati Shivaji College,
Satara