

**DON BOSCO ARTS & SCIENCE COLLEGE**  
**ANGADIKADAVU**

*(Affiliated to Kannur University Approved by Government of Kerala)*  
**ANGADIKADAVU P.O., IRITTY, KANNUR – 670706**



**COURSE PLAN**

**BSc PSYCHOLOGY**

**(2018 – 21)**

**SEMESTER - IV**

**ACADEMIC YEAR - (2019-20)**

## IV Semester BSc Psychology (2018 - 21)

SL. No.	Name of Subjects with Code	Name of the Teacher	Duty Hours per week
1.	4A06 ENG Readings in Fiction and Drama	Jisha E	5
2.	4A10 MAL Rachana Vivarthanam	Vineesh T.K.	5
3.	4A010 HIN Natak Aur Upanyas	Rabina V.	
4.	4B07PSY Psychology of Individual Differences	Athira Alex	4
5.	4B08PSY Experimental Psychology- Practical 2	Athira Alex	3
6.	4C04STA (G&P) Statistical Inference	Fathimathul Nithasha Beegam I.	4
7.	4 C 04 PSY Bio Psychology	Sr. Leema Jacob	4
	<b>Name of Class Incharge</b>	Athira Alex	

### TIME TABLE

Day	09.50 Am - 10.45 Am	10.45 Am - 11.40 Am	11.55 Am - 12.50 Pm	01.40 Pm - 02.35 Pm	02.35 Pm - 03.30 Pm
1	Athira Alex 4B07PSY	IV sem ScLang ENGMATPHY	Jisha E. 4A06ENG	Sr. Leema Jacob 4C04PSY	Athira Alex 4B08PSY
2	Sr. Leema Jacob 4C04PSY	Fathimathul Nithasha Beegam I 4C04STA(G&P)	Athira Alex 4B07PSY	IV sem ScLang ENGMATPHY	Jisha E. 4A06ENG
3	Sr. Leema Jacob 4C04PSY	IV sem ScLang ENGMATPHY	Fathimathul Nithasha Beegam I 4C04STA(G&P)	Jisha E. 4A06ENG	Athira Alex 4B08PSY
4	Jisha E. 4A06ENG	Athira Alex 4B07PSY	Fathimathul Nithasha Beegam I 4C04STA(G&P)	Sr. Leema Jacob 4C04PSY	IV sem ScLang ENGMATPHY
5	IV sem ScLang ENGMATPHY	Fathimathul Nithasha Beegam I 4C04STA(G&P)	Athira Alex 4B08PSY	Jisha E. 4A06ENG	Athira Alex 4B07PSY

<b>Subject Code:</b>	<b>4A06 ENG</b>
<b>Subject Name:</b>	<b>Readings in Fiction and Drama</b>
<b>No. of Credits:</b>	<b>4</b>
<b>No. of Contact Hours:</b>	<b>90</b>
<b>Hours per Week:</b>	<b>5</b>
<b>Name of the Teacher:</b>	<b>Jisha E</b>

**Objective: -**

- The student will understand the power of language.
- The student will understand production elements that contribute to the effectiveness of a specific medium.
- The student will understand why certain literary works are considered classics
- The student will identify universal themes prevalent in the literature of all cultures.
- The student will analyze the effectiveness of complex elements of plot, such as setting, major events, problems, conflicts and resolutions.
- The student will understand the relationships between and among elements of literature, including characters, plot, setting, tone, point of view and theme.

**Module –I: Short Fiction (2Hours/Week)**

- |                                 |   |                 |
|---------------------------------|---|-----------------|
| 1. Phantom Luncheon             | : | Saki            |
| 2. Last Leaf                    | : | O. Henry        |
| 3. The Mother of a Traitor      | : | Maxim Gorky     |
| 4. Uncle Podger Hangs a Picture | : | Jerome K Jerome |
| 5. Full Moon Night              | : | Gautam Sengupta |

**Module – II: Drama (3Hours/Week)**

- |  |   |                  |
|--|---|------------------|
| 1. Othello (I&V acts for detailed study) | : | W. Shakespeare   |
| 2. A Marriage Proposal                   | : | Anton Chekhov    |
| 3. The Rising of the Moon                | : | Lady Gregory     |
| 4. Fail Not Our Feast                    | : | Vincent Godefroy |
| 5. Refund                                | : | Fritz Carinthy   |

**Prescribed Textbook**

*Overtures* : Hyderabad:Orient Blackswan



No of Weeks	Dates	Session	Topic
			<b>Semester Break</b>
<b>6</b>	<b>01-12-2019 To 05-12-2019</b>		<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
<b>7</b>	<b>09-12-2019 To 13-12-2019</b>	23	Full Moon Night : Gautam Sengupta
		24	Full Moon Night : Gautam Sengupta
		25	Full Moon Night : Gautam Sengupta
		26	Full Moon Night : Gautam Sengupta
		27	Full Moon Night : Gautam Sengupta
		28	Full Moon Night : Gautam Sengupta
		<b>12 Dec</b>	<b>Arts Day</b>
		<b>13 Dec</b>	<b>Arts Day</b>
<b>8</b>	<b>16-12-2019 To 20-12-2019</b>	29	Othello (I&V acts for detailed study) : W. Shakespeare
		30	Othello (I&V acts for detailed study) : W. Shakespeare
		31	Othello (I&V acts for detailed study) : W. Shakespeare
		32	Othello (I&V acts for detailed study) : W. Shakespeare
		33	Othello (I&V acts for detailed study) : W. Shakespeare
		<b>20 Dec</b>	Othello (I&V acts for detailed study) : W. Shakespeare
<b>9</b>	<b>23-12-2019 To 28-12-2019</b>		<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
<b>10</b>	<b>30-12-2019 To 03-01-2020</b>	34	Othello (I&V acts for detailed study) : W. Shakespeare
		35	Othello (I&V acts for detailed study) : W. Shakespeare
		36	Othello (I&V acts for detailed study) : W. Shakespeare
		<b>02 Jan</b>	<b>Mannam Jayanthi – Holiday</b>
		37	Class Test
<b>11</b>	<b>06-01-2020 To</b>	<b>06 Jan</b>	<b>First Internal IV Semester UG</b>
			<b>First Internal IV Semester UG</b>
		<b>08 Jan</b>	<b>First Internal IV Semester UG</b>

No of Weeks	Dates	Session	Topic
	<b>10-01-2020</b>	38	The Rising of the Moon : Lady Gregor
		39	The Rising of the Moon : Lady Gregor
		40	The Rising of the Moon : Lady Gregor
		41	The Rising of the Moon : Lady Gregor
<b>12</b>	<b>13-01-2020 To 17-01-2020</b>	42	The Rising of the Moon : Lady Gregor
		43	The Rising of the Moon : Lady Gregor
		44	The Rising of the Moon : Lady Gregor
		45	The Rising of the Moon : Lady Gregor
		46	The Rising of the Moon : Lady Gregor
		47	Discussion of question answers
		48	Class Test
<b>13</b>	<b>20-01-2020 To 24-01-2020</b>	49	Seminar Presentation
		50	Seminar Presentation
		51	Seminar Presentation
		52	Seminar Presentation
		53	Seminar Presentation
		54	Seminar Presentation
		55	Seminar Presentation
		56	Seminar Presentation
<b>14</b>	<b>27-01-2020 To 31-01-2020</b>	57	Seminar Presentation
		58	Fail Not Our Feast : Vincent Godefroy
		59	Fail Not Our Feast : Vincent Godefroy
		60	Fail Not Our Feast : Vincent Godefroy
		61	Fail Not Our Feast : Vincent Godefroy
		62	Fail Not Our Feast : Vincent Godefroy
		63	Fail Not Our Feast : Vincent Godefroy
		64	Fail Not Our Feast : Vincent Godefroy
<b>15</b>	<b>03-02-2020 To 07-02-2020</b>	65	Fail Not Our Feast : Vincent Godefroy
		66	Fail Not Our Feast : Vincent Godefroy
		67	Fail Not Our Feast : Vincent Godefroy
		68	Fail Not Our Feast : Vincent Godefroy
		69	Discussion
		70	Class Test
		71	Refund : Frigyes Karinthy
		72	Refund : Frigyes Karinthy
<b>16</b>	<b>10-02-2020</b>	73	Refund : Frigyes Karinthy
		74	Refund : Frigyes Karinthy
		75	Refund : Frigyes Karinthy

No of Weeks	Dates	Session	Topic
	<b>To</b> <b>14-02-2020</b>	76	Refund : Frigyes Karinthy
		77	Refund : Frigyes Karinthy
		78	Refund : Frigyes Karinthy
		79	Refund : Frigyes Karinthy
		80	Refund : Frigyes Karinthy
<b>17</b>	<b>17-02-2020</b> <b>To</b> <b>22-02-2020</b>	81	<b>Revision---Module 1</b>
		82	<b>Revision---Module 1</b>
		83	<b>Revision---Module 1</b>
		84	<b>Revision---Module 1</b>
		<b>21 Feb</b>	<b>Mahasivaratri – Holiday</b>
		85	<b>Revision---Module 1</b>
<b>18</b>	<b>24-02-2020</b> <b>To</b> <b>28-02-2020</b>	<b>24 Feb</b>	<b>College Day</b>
		86	<b>Revision—Module 2</b>
		87	<b>Revision—Module 2</b>
		88	<b>Revision—Module 2</b>
		89	<b>Revision—Module 2</b>
		90	<b>Revision—Module 2</b>
<b>19</b>	<b>02-03-2020</b> <b>To</b> <b>07-03-2020</b>	<b>02 Mar</b>	<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
		<b>07 Mar</b>	<b>Second Internal IV Semester UG</b>
<b>20</b>	<b>09-03-2020</b> <b>To</b> <b>13-03-2020</b>		<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
<b>21</b>	<b>16-03-2020</b> <b>To</b> <b>20-03-2020</b>	<b>16 mar</b>	<b>University Exam IV Semester UG Begin</b>

<b>Subject Code:</b>	<b>4B07PSY</b>
<b>Subject Name:</b>	<b>Psychology of Individual Differences</b>
<b>No. of Credits:</b>	<b>3</b>
<b>No. of Contact Hours:</b>	<b>72</b>
<b>Hours per Week:</b>	<b>4</b>
<b>Name of the Teacher:</b>	<b>Athira Alex</b>

**Objective: -**

- To make the students aware of the major psychological approaches to the study of personality.
- To familiarize them with the concepts of IQ, mental age, and different theories of intelligence.
- To provide them insight in to the self as well as insight into others.

**Module –I: Personality**

Definition approaches- trait- Concept of a personality trait, cardinal, central and secondary dispositions, surface and source traits. Five Factor theory- Characteristics of each of the factors and sub dimensions. Humanistic- Rogers- the field of experience, the self as process, self actualizing tendency, personal power, congruence and incongruence, fully functioning person. Maslow- Hierarchy of Needs, self actualization. Myers - Briggs theory. Self and personality- group membership and social identity.

**Module – II: Theories of Personality**

Freud’s theory of Personality – structure of mind- Id, Ego, Super ego. Instincts: life and death instincts, characteristics of instincts. Different types of anxiety and defense mechanisms. Psychosexual stages- Oedipus complex, interpretation of Dreams. Contributions of Neo Freudians in brief: Erikson, Jung, Adler, Horney, Erich Fromm.

**Module – III: Intelligence**

Intelligence- definition, mental age, IQ, Binet -Simon scale, heredity and environment as determinants of intelligence. The cognitive base of intelligence. The neural basis of intelligence: intelligence and neural efficiency. Gender differences in intelligence. Assessment- individual and group tests.



## **Module – IV: Intelligence theories**

Traditional theories- Spearman, Thurstone, Cattell, Guilford. Qualitative theories- Piaget and Vygotsky, Recent theories of intelligence- Gardner, Sternberg, Goleman - emotional intelligence.

### **Books for Reference**

1. Weiten, B. (2011). Psychology: themes and variations. USA: Wardsworth.
2. Myers, D.G. (2010). Psychology(9th ed). USA: Worth publishers.
3. Baron, R.A.(2013) Psychology. India: Dorling Kindersley.
4. Quick, J.C., & Nelson, D. L. (2006). Organizational behavior. India: Thomson learning

## TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	29-10-2019 To 01-11-2019	1	Definition approaches- trait- Concept of a personality trait, cardinal, central and secondary dispositions, surface and source traits.
		2	Definition approaches- trait- Concept of a personality trait, cardinal, central and secondary dispositions, surface and source traits.
		3	Definition approaches- trait- Concept of a personality trait, cardinal, central and secondary dispositions, surface and source traits.
		4	Five Factor theory- Characteristics of each of the factors and sub dimensions.
		5	Humanistic- Rogers- the field of experience, the self as process, self actualizing tendency,
2	04-11-2019 To 08-11-2019	6	Personal power, congruence and incongruence, fully functioning person.
		7	Personal power, congruence and incongruence, fully functioning person.
		8	Maslow- Hierarchy of Needs, self actualization.
		9	Myers - Briggs theory
		10	Self and personality- group membership and social identity.
		11	Class test
3	11-11-2019 To 15-11-2019	12	Seminar
		13	Seminar
		14	Seminar
		15	Seminar
		16	Seminar
		17	Seminar
4	18-11-2019 To 23-11-2019	18	Seminar
		19 Nov	<b>Union Inauguration</b>
		19	Freud's theory of Personality – structure of mind- Id, Ego, Super ego.
		20	Instincts: life and death instincts, characteristics of instincts.
		21	Different types of anxiety and defence mechanisms.
23 Nov	<b>Sports Day</b>		
5	25-11-2019		<b>Semester Break</b>

No of Weeks	Dates	Session	Topic
	<b>To 29-11-2019</b>		<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
<b>6</b>	<b>01-12-2019 To 05-12-2019</b>		<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
<b>7</b>	<b>09-12-2019 To 13-12-2019</b>	22	Psychosexual stages- Oedipus complex
		23	Psychosexual stages- Oedipus complex
		24	Interpretation of Dreams.
		25	Interpretation of Dreams
		26	Contributions of Neo Freudians in brief
		<b>12 Dec</b>	<b>Arts Day</b>
		<b>13 Dec</b>	<b>Arts Day</b>
<b>8</b>	<b>16-12-2019 To 20-12-2019</b>	27	Erikson.
		28	Erikson
		29	Horney
		30	Adler
		31	
		<b>20 Dec</b>	<b>Christmas Celebration</b>
<b>9</b>	<b>23-12-2019 To 28-12-2019</b>		<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
	<b>30-12-2019</b>	32	Jung

No of Weeks	Dates	Session	Topic
10	To 03-01-2020	33	Erich Fromm
		34	<b>Class test</b>
		<b>02 Jan</b>	<b>Mannam Jayanthi – Holiday</b>
		35	Assignment
11	06-01-2020 To 10-01-2020	<b>06 Jan</b>	<b>First Internal IV Semester UG</b>
			<b>First Internal IV Semester UG</b>
		<b>08 Jan</b>	<b>First Internal IV Semester UG</b>
		36	Assignment
		37	Intelligence- definition, mental age, IQ
		38	Binet -Simon scale,
12	13-01-2020 To 17-01-2020	39	Heredity and environment as determinants of intelligence
		40	The cognitive base of intelligence.
		41	The cognitive base of intelligence.
		42	The cognitive base of intelligence.
		43	The neural basis of intelligence: intelligence and neural efficiency.
		44	The neural basis of intelligence: intelligence and neural efficiency.
13	20-01-2020 To 24-01-2020	45	The neural basis of intelligence: intelligence and neural efficiency.
		46	The neural basis of intelligence: intelligence and neural efficiency.
		47	Gender differences in intelligence
		48	Gender differences in intelligence
		49	Assessment- individual and group tests.
14	27-01-2020 To 31-01-2020	50	Assessment- individual and group tests.
		51	<b>Class test</b>
		52	Seminar
		53	Seminar
		54	Seminar
15	03-02-2020 To 07-02-2020	55	Traditional theories- Spearman
		56	Thurstone
		57	Thurstone
		58	Cattel
		59	Cattel
16	10-02-2020 To	60	Guilford
		61	Qualitative theories- Piaget and Vygotsky,
		62	Qualitative theories- Piaget and Vygotsky,

No of Weeks	Dates	Session	Topic
	<b>14-02-2020</b>	63	Qualitative theories- Piaget and Vygotsky,
		64	Recent theories of intelligence- Gardner
<b>17</b>	<b>17-02-2020 To 22-02-2020</b>	65	Recent theories of intelligence- Gardner
		66	Sternberg
		67	Goleman - emotional intelligence
		<b>21 Feb</b>	<b>Mahasivaratri – Holiday</b>
		68	Goleman - emotional intelligence.
<b>Semin ar</b>	<b>24-02-2020 To 28-02-2020</b>	<b>24 Feb</b>	<b>College Day</b>
		69	Goleman - emotional intelligence
		70	Class test
		71	Seminar
		72	Seminar
<b>19</b>	<b>02-03-2020 To 07-03-2020</b>	<b>02 Mar</b>	<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
		<b>07 Mar</b>	<b>Second Internal IV Semester UG</b>
<b>20</b>	<b>09-03-2020 To 13-03-2020</b>		<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
<b>21</b>	<b>16-03-2020 To 20-03-2020</b>	<b>16 mar</b>	<b>University Exam IV Semester UG Begin</b>

<b>Subject Code:</b>	<b>4B08PSY</b>
<b>Subject Name:</b>	<b>Experimental Psychology- Practical 2</b>
<b>No. of Credits:</b>	<b>3</b>
<b>No. of Contact Hours:</b>	<b>54</b>
<b>Hours per Week:</b>	<b>3</b>
<b>Name of the Teacher:</b>	<b>Athira Alex</b>

**Objective: -**

- To create interest in practical application of psychology
- To facilitate comprehension of theoretical concepts through experiments
- To familiarize the students with psychological instruments and tools
- To develop scientific and experimental attitudes among students

**1. MEMORY**

- a. Immediate memory span
- b. Retention as a function of meaning

**2. SENSATION AND PERCEPTION**

- a. Depth perception
- b. Color blindness
- c. Muller Lyer Illusion

**3. ATTENTION**

- a. Span of attention
- b. Distraction of attention
- c. Set in attention
- d. Division of attention

**4. REACTION TIME**

- a. Simple Reaction Time
- b. Choice Reaction Time

**5. PROBLEM SOLVING**

- a. Pyramid puzzles

**Books for Reference**

1. Mohsin, S.M (2005). Experiments in Psychology. New Delhi, Motilal Banarsidas
2. Shergill, H.K.( 2012) Experimental Psychology. New Delhi, PHI Learning Pvt Ltd
3. Woodworth, R.S, & Schlosberg, H. ( 1971). Experimental Psychology. New Delhi, Oxford & IBH Publishing Co

## TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	29-10-2019 To 01-11-2019	1	Immediate memory span - Demonstration
		2	Immediate memory span
		3	Immediate memory span
2	04-11-2019 To 08-11-2019	4	Immediate memory span
		5	Immediate memory span
		6	Retention as a function of meaning - Demonstration
		7	Retention as a function of meaning
3	11-11-2019 To 15-11-2019	8	Retention as a function of meaning
		9	Retention as a function of meaning
		10	Retention as a function of meaning
		11	Retention as a function of meaning
4	18-11-2019 To 23-11-2019	12	Retention as a function of meaning
		19 Nov	<b>Union Inauguration</b>
		13	Sensation and perception – Introduction
		23 Nov	<b>Sports Day</b>
5	25-11-2019 To 29-11-2019		<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
6	01-12-2019 To 05-12-2019		<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
7	09-12-2019	14	Depth perception - Demonstration

No of Weeks	Dates	Session	Topic
	<b>To</b> <b>13-12-2019</b>	15	Depth perception
		16	Depth perception
		<b>12 Dec</b>	<b>Arts Day</b>
		<b>13 Dec</b>	<b>Arts Day</b>
<b>8</b>	<b>16-12-2019</b> <b>To</b> <b>20-12-2019</b>	17	Depth perception
		18	Depth perception
		19	Depth perception
		<b>20 Dec</b>	<b>Christmas Celebration</b>
<b>9</b>	<b>23-12-2019</b> <b>To</b> <b>28-12-2019</b>		<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
<b>10</b>	<b>30-12-2019</b> <b>To</b> <b>03-01-2020</b>	20	Depth perception
		21	Depth perception
		22	Depth perception
		<b>02 Jan</b>	<b>Mannam Jayanthy – Holiday</b>
		23	Depth perception
<b>11</b>	<b>06-01-2020</b> <b>To</b> <b>10-01-2020</b>	<b>06 Jan</b>	<b>First Internal IV Semester UG</b>
			<b>First Internal IV Semester UG</b>
		<b>08 Jan</b>	<b>First Internal IV Semester UG</b>
		24	Colour blindness - Demonstration
		25	Colour blindness
		26	Colour blindness
<b>12</b>	<b>13-01-2020</b> <b>To</b> <b>17-01-2020</b>	27	Colour blindness
		28	Colour blindness
		29	Colour blindness
		30	Colour blindness
<b>13</b>	<b>20-01-2020</b> <b>To</b> <b>24-01-2020</b>	31	Attention - Introduction
		32	Span of attention - Demonstration
		33	Span of attention
		34	Span of attention
		35	Span of attention
<b>14</b>	<b>27-01-2020</b> <b>To</b>	36	Span of attention
		37	Span of attention
		38	Span of attention



No of Weeks	Dates	Session	Topic
	<b>31-01-2020</b>	39	Span of attention
		40	Distraction of attention - Demonstration
<b>15</b>	<b>03-02-2020 To 07-02-2020</b>	41	Distraction of attention
		42	Distraction of attention
		43	Distraction of attention
		44	Muller Lyer Illusion - Demonstration
<b>16</b>	<b>10-02-2020 To 14-02-2020</b>	45	Muller Lyer Illusion
		46	Muller Lyer Illusion
		47	Muller Lyer Illusion
		48	Knowledge of Result -Demonstration
<b>17</b>	<b>17-02-2020 To 22-02-2020</b>	49	Knowledge of Result
		50	Knowledge of Result
		<b>21 Feb</b>	<b>Mahasivaratri – Holiday</b>
		51	Knowledge of Result
<b>18</b>	<b>24-02-2020 To 28-02-2020</b>	<b>24 Feb</b>	<b>College Day</b>
		52	Knowledge of Result
		53	Knowledge of Result
		54	Knowledge of Result
<b>19</b>	<b>02-03-2020 To 07-03-2020</b>	<b>02 Mar</b>	<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
			<b>Second Internal IV Semester UG</b>
		<b>07 Mar</b>	<b>Second Internal IV Semester UG</b>
<b>20</b>	<b>09-03-2020 To 13-03-2020</b>		<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
			<b>Study Leave</b>
<b>21</b>	<b>16-03-2020 To 20-03-2020</b>	<b>16 mar</b>	<b>University Exam IV Semester UG Begin</b>

<b>Subject Code:</b>	<b>4C04STA (G&amp;P)</b>
<b>Subject Name:</b>	<b>Statistical Inference</b>
<b>No. of Credits:</b>	<b>3</b>
<b>No. of Contact Hours:</b>	<b>72</b>
<b>Hours per Week:</b>	<b>4</b>
<b>Name of the Teacher:</b>	<b>Fthimathul Nithasha Beegam I.</b>

### **Module – I:**

**Module I: Estimation theory:** Parameter, statistic, point estimation-desirable properties of a good estimator- unbiasedness, consistency, sufficiency and efficiency; Interval estimation: Definition, Confidence interval for mean, proportion, difference of means and difference of proportions. **(25 Hrs)**

### **Module – II:**

**Testing of hypothesis:** Null and alternative hypothesis, simple and composite hypothesis, two types of errors; size and power of a test, most powerful test and uniformly most powerful test, Neymann-Pearson lemma. **(15 hrs)**

### **Module – III:**

**Large and small sample tests:** Definition, Test for mean, proportion and variance, difference of means and proportions, chi square test for goodness of fit and independence of attributes, F-test. **(25 Hrs)**

### **Module – IV:**

**Analysis of variance:** One way and two way classification, linear hypothesis, total, between and within sum of squares, ANOVA table, solution of problems using ANOVA tables. **(20 Hrs)**

### **Prescribed Textbook**

1. S.C Gupta and V.K . Kapoor: *Fundamentals of Mathematical Statistics*, Sulthan Chand and Sons
2. S.C Gupta and V.K . Kapoor: *Fundamentals of Applied Statistics*, Sulthan Chand and Sons

### **Books for Reference**

1. John Silk: *Statistical concepts in Geography*, George Allan and Unwin
2. Prem S Mann : *Introductory Statistics* 5th Edition, Wiley

## TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	29-10-2019 To 01-11-2019	1	Introduction
		2	Module -I Theory of estimation
		3	Parameter
		4	Statistic ,examples of parameters and statistic
		5	Statistic ,examples of parameters and statistic
2	04-11-2019 To 08-11-2019	6	Point Estimation and Interval Estimation with examples
		7	Unbiasedness
		8	Theorem and statements of unbiasedness
		9	Efficiency , Problems of efficiency
		10	Efficiency , Problems of efficiency
3	11-11-2019 To 15-11-2019	11	Sufficiency , Problems
		12	Neymann Factorisation Theorem
		13	Interval estimation with proof
		14	Definition and concepts of interval estimation
		15	Definition and concepts of interval estimation
4	18-11-2019 To 23-11-2019	16	Revision
		17	Confidence interval for mean
		18	Confidence interval for mean proof and problems
		19 Nov	Union Inauguration
		19	Confidence interval for mean proof and problems
5	25-11-2019 To 29-11-2019	20	Confidence interval for difference of means
		21	Confidence interval for difference of means
		23 Nov	Sports Day
			Semester Break
			Semester Break
6	01-12-2019		Semester Break
			Semester Break

No of Weeks	Dates	Session	Topic
	<b>To 05-12-2019</b>		<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
			<b>Semester Break</b>
<b>7</b>	<b>09-12-2019 To 13-12-2019</b>	22	Problems of confidence interval of difference of means with example
		23	Problems of confidence interval of difference of means with example
		24	Confidence interval for proportion and examples
		25	Confidence interval for proportion and examples
		26	Confidence interval for difference of proportion with example
		<b>12 Dec</b>	<b>Arts Day</b>
		<b>13 Dec</b>	<b>Arts Day</b>
<b>8</b>	<b>16-12-2019 To 20-12-2019</b>	27	Confidence interval for difference of proportion with example
		28	Confidence interval for variance
		29	Discussion and first chapter summary
		30	Revision
		31	Unit Test -I
		<b>20 Dec</b>	<b>Christmas Celebration</b>
<b>9</b>	<b>23-12-2019 To 28-12-2019</b>		<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
			<b>Christmas – Holiday</b>
<b>10</b>	<b>30-12-2019 To 03-01-2020</b>	32	II - Module Testing of Hypothesis
		33	Simple and composite hypothesis
		34	Null and alternative Hypothesis
		<b>02 Jan</b>	<b>Mannam Jayanthi – Holiday</b>
		35	Two types of errors
<b>11</b>	<b>06-01-2020 To</b>	<b>06 Jan</b>	<b>First Internal IV Semester UG</b>
			<b>First Internal IV Semester UG</b>
		<b>08 Jan</b>	<b>First Internal IV Semester UG</b>

No of Weeks	Dates	Session	Topic
	<b>10-01-2020</b>	36	Two types of errors
		37	Power of Test
		38	Significance level, size of the test
<b>12</b>	<b>13-01-2020 To 17-01-2020</b>	39	Critical region and it's problem
		40	Most Powerful Test,
		41	Problems of Most powerful test
		42	Problems of Most powerful test
		43	Revision
		44	UNIT TEST -II
<b>13</b>	<b>20-01-2020 To 24-01-2020</b>	45	Neymann Pearson lemma
		46	Problems
		47	III Module Large sample and small sample test
		48	Test for mean and problems
		49	Graphical Analysis
<b>14</b>	<b>27-01-2020 To 31-01-2020</b>	50	Test for proportion and problems
		51	Test for variance and equality of proportion
		52	Problems of testing of proportion.
		53	Problems of testing of proportion.
		54	Chi Square goodness of fit
<b>15</b>	<b>03-02-2020 To 07-02-2020</b>	55	Chi square independence of attributes
		56	Problems of chi Square goodness of fit
		57	F Test and Problems
		58	Revision
		59	UNIT Test III
<b>16</b>	<b>10-02-2020 To 14-02-2020</b>	60	IV module Analysis of Variance
		61	One way classification and it's procedure
		62	Problems of one way Classification
		63	Problems of one way Classification
		64	Two way Classification and procedure
<b>17</b>	<b>17-02-2020 To 22-02-2020</b>	65	Two way Classification and procedure
		66	Revision
		67	Revision
		<b>21 Feb</b>	<b>Mahasivaratri – Holiday</b>
		68	Revision
	<b>24-02-2020</b>	<b>24 Feb</b>	<b>College Day</b>
		69	Revision

No of Weeks	Dates	Session	Topic
18	To 28-02-2020	70	Revision
		71	Revision
		72	Revision
19	02-03-2020 To 07-03-2020	02 Mar	Second Internal IV Semester UG
			Second Internal IV Semester UG
			Second Internal IV Semester UG
			Second Internal IV Semester UG
			Second Internal IV Semester UG
		07 Mar	Second Internal IV Semester UG
20	09-03-2020 To 13-03-2020		Study Leave
			Study Leave
			Study Leave
			Study Leave
			Study Leave
			Study Leave
21	16-03-2020 To 20-03-2020	16 Mar	University Exam IV Semester UG Begin

<b>Subject Code:</b>	<b>4 C 04 PSY</b>
<b>Subject Name:</b>	<b>Bio Psychology</b>
<b>No. of Credits:</b>	<b>3</b>
<b>No. of Contact Hours:</b>	<b>72</b>
<b>Hours per Week:</b>	<b>4</b>
<b>Name of the Teacher:</b>	<b>Sr. Leema Jacob</b>

**Objective: -**

- To develop an understanding of biological basis of behaviour
- To equip the student of psychology with the most essential and fundamental biological processes underlying psychological events

**Module –I:**

Homeostasis & allostasis, Thirst: osmotic thirst, hypovolemic thirst, thirst & hypothalamic control, Non- homeostatic drinking, temperature regulation: endotherm & ectotherm, poikilotherms & homeotherms, brain and temperature regulation, hunger: feeding control in the brain - hypothalamus, set point, onset and offset of eating -central and peripheral mechanism, Insulin and glucagon feedback system, theories - glucostatic, thermostatic, & lipostatic theories. Eating disorders – obesity, anorexia nervosa, bulimia nervosa.

**Module – II: Sleep and Consciousness**

Physiological measures of alertness & arousal, stages of sleep & brain mechanism, REM, disorders of arousal and sleep – narcolepsy, insomnia, somnambulism, sleep apnea, circadian rhythms and biological clock.

**Module – III: Biological Basis of Sexual Behaviour**

Sexual differentiation, sex hormones, sex differences in the brain, sexual response cycle, regulation of sexual behaviour, parental behaviour.

### **Module – IV: Neural Basis of Emotion**

Hypothalamus & Limbic System in emotionality – rewards and punishment left and right hemispheric specialization of emotion, role of amygdale and emotion.

### **Module – V: Biological Basis of Learning and Memory**

Learning and the nervous system, hippocampus, Lashley's work, classical consolidation theory- Hebbian synapse, habituation, long term potentiation- synaptic basis of learning, Amnesia.

### **Books for Reference**

1. Corr, P. J. (2006). Understanding biological psychology. U S A: Blackwellpublishing.
2. Kalat, J. W. (2009). Biological psychology(9th ed. ). U S A : Pearson education, Inc.
3. Wilson, J .F. (2003). Biological foundation of human behaviour. U S A : Wadsworth Thomson learning, Inc.
4. Pinel, J. P. J. (2006). Biopsychology (6th ed. ). U S A: pearson education, inc.





No of Weeks	Dates	Session	Topic
6	01-12-2019 To 05-12-2019		Semester Break
			Semester Break
			Semester Break
			Semester Break
			Semester Break
			Semester Break
			Semester Break
7	09-12-2019 To 13-12-2019	22	Sleep apnea, circadian rhythms and biological clock.
		23	Revision
		24	Class test
		25	Biological Basis of Sexual Behaviour
		26	Sexual differentiation
		12 Dec	Arts Day
		13 Dec	Arts Day
8	16-12-2019 To 20-12-2019	27	Sex hormones,
		28	Sex differences in the brain.
		29	Sexual response cycle
		30	Regulation of sexual behaviour
		31	Parental behaviour
		20 Dec	Christmas Celebration
9	23-12-2019 To 28-12-2019		Christmas – Holiday
			Christmas – Holiday
			Christmas – Holiday
			Christmas – Holiday
			Christmas – Holiday
			Christmas – Holiday
			Christmas – Holiday
10	30-12-2019 To 03-01-2020	32	Revision
		33	Class test
		34	
		02 Jan	Mannam Jayanthi – Holiday
		35	Seminar presentation
11	06-01-2020 To	06 Jan	First Internal IV Semester UG
			First Internal IV Semester UG
		08 Jan	First Internal IV Semester UG

No of Weeks	Dates	Session	Topic
	<b>10-01-2020</b>	36	Neural Basis of Emotion
		37	Hypothalamus & Limbic System in emotionality
		38	Rewards and punishment
<b>12</b>	<b>13-01-2020 To 17-01-2020</b>	39	Left and right hemispheric specialization of emotion
		40	Role of amygdale and emotion.
		41	Revision
		42	Revision
		43	Revision
		44	Class test
<b>13</b>	<b>20-01-2020 To 24-01-2020</b>	45	Seminar presentation
		46	Seminar presentation
		47	Assignment
		48	Biological Basis of Learning and Memory
		49	Learning
<b>14</b>	<b>27-01-2020 To 31-01-2020</b>	50	The nervous system
		51	Lashley's work,
		52	Hippocampus
		53	Hippocampus
		54	Classical consolidation
<b>15</b>	<b>03-02-2020 To 07-02-2020</b>	55	Classical consolidation
		56	Theory- Hebbian synapse
		57	Habituation,
		58	Long term potentiation
		59	Synaptic basis of learning,
<b>16</b>	<b>10-02-2020 To 14-02-2020</b>	60	Amnesia.
		61	Amnesia.
		62	Amnesia.
		63	Seminar Presentation
		64	Seminar Presentation
<b>17</b>	<b>17-02-2020 To 22-02-2020</b>	65	Seminar Presentation
		66	Seminar Presentation
		67	Seminar Presentation
		<b>21 Feb</b>	<b>Mahasivaratri – Holiday</b>
		68	Revision

No of Weeks	Dates	Session	Topic
18	24-02-2020 To 28-02-2020	24 Feb	College Day
		69	Revision
		70	Revision
		71	Revision
		72	Class test
19	02-03-2020 To 07-03-2020	02 Mar	Second Internal IV Semester UG
			Second Internal IV Semester UG
			Second Internal IV Semester UG
			Second Internal IV Semester UG
			Second Internal IV Semester UG
		07 Mar	Second Internal IV Semester UG
20	09-03-2020 To 13-03-2020		Study Leave
			Study Leave
			Study Leave
			Study Leave
			Study Leave
			Study Leave
21	16-03-2020 To 20-03-2020	16 mar	University Exam IV Semester UG Begin