



**SGT UNIVERSITY**  
SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY  
(UGC Approved) Gurugram, Delhi-NCR  
Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Faculty of Behavioural and Social Science

Department of Clinical Psychology

Four year Full time Undergraduate Program

**B.Sc. (Hons. with Research) Cognitive Science**

With effect from Academic Year 2024-25

Course Structure							
	Course	NAME OF THE PAPER	HOURS/WK			Credits	
			L	T	P		
<b>SEM-I</b>	Core	Fundamentals of Psychology	3	-	2	4	
	Core	Basics of Neuroscience	3	-	2	4	
	Core	Introduction to Programming Languages	2	-	4	4	
	Core	Introduction to Data Science	4	-	-	4	
	SEC-1	Any from the University Basket	4	-	-	4	
	AECC-1	Any from the University Basket	2	-	-	2	
	VAC-1	Any from the University Basket	2	-	-	2	
		<b>Total</b>		<b>20</b>	<b>-</b>	<b>8</b>	<b>22</b>
	Course	Name of the paper	HOURS/WK			Credits	
			L	T	P		
<b>SEM-II</b>	Core	Systems Neuroscience	3	-	2	4	
	Core	Research Methods	3	1	-	4	
	Core	Problem solving with Python Programming	2	-	4	4	
	Core	Development of Psychological thought	4	-	-	4	
	SEC-2	Any from the University Basket	2	-	-	4	
	AECC-2	Any from the University Basket	2	-	-	2	
	VAC-2	Anyone	2	-	-	2	
		<b>Total</b>		<b>18</b>	<b>1</b>	<b>6</b>	<b>22</b>
	Course	Name of the paper	HOURS/WK			Credits	

<b>SEM-III</b>			<b>L</b>	<b>T</b>	<b>P</b>	
	Core	Clinical Disorders	3	-	2	4
	Core	Neuro-Cognition	3	-	2	4
	Core	Neurophysics and Instrumentation	2	-	4	4
	Core	Statistics	2	-	4	4
	SEC-3	Any from the University Basket	2	-	-	2
	AECC-3	Any from the University Basket	2	-	-	2
	VAC-3	Any from the University Basket	2	-	-	2
		<b>Total</b>	<b>18</b>	<b>-</b>	<b>12</b>	<b>22</b>

	<b>Course</b>	<b>Name of the paper</b>	<b>HOURS/WK</b>			<b>Credit</b>
			<b>L</b>	<b>T</b>	<b>P</b>	
<b>SEM-IV</b>	Core	Genetics and Behaviour	3	1	-	4
	Core	Neurobehavioral tools and Techniques	2	-	4	4
	Core	Introduction to Artificial Intelligence	2	-	4	4
	Core	Data analysis: warehousing and mining	2	-	4	4
	SEC-4	Any from the University Basket	2	-	-	2
	AECC-4	Any from the University Basket	2	-	-	2
	VAC-4	Any from the University Basket	2	-	-	2
		<b>Total</b>	<b>15</b>	<b>1</b>	<b>12</b>	<b>22</b>

	<b>Course</b>	<b>Name of the paper</b>	<b>HOURS/WK</b>			<b>Credit</b>
			<b>L</b>	<b>T</b>	<b>P</b>	

<b>SEM-V</b>	Core	Research ethics	3	1	-	4
	Core	Brain and Behaviour Lab	-	-	8	4
	Core	Introduction to Machine learning	2	-	4	4
	Core	Image and Signal processing	2	-	4	4
		Internship and training			12	6
		<b>Total</b>	<b>7</b>	<b>1</b>	<b>28</b>	<b>22</b>

	<b>Course</b>	<b>Name of the paper</b>	<b>HOURS/WK</b>			<b>Credit</b>
			<b>L</b>	<b>T</b>	<b>P</b>	
<b>SEM-VI</b>	Core	Critical thinking, decision making & neuromarketing	3	-	2	4
	Core	Brain-computer Interfaces	-	-	8	4
	Core	Advanced Machine Learning	2	-	4	4
	Core	Game design and simulation	2	-	4	4
		Internship and training			12	6
		<b>Total</b>	<b>7</b>		<b>30</b>	<b>22</b>

	<b>Course</b>	<b>Name of the paper</b>	<b>HOURS/WK</b>			<b>Credit</b>
			<b>L</b>	<b>T</b>	<b>P</b>	
<b>SEM-VII</b>	Research	Review of Literature				3
		Review paper- Submission / Publication				4
		Submission of Synopsis				3
		Internship and training (Industrial/Research)			24	12
		<b>Total</b>				<b>22</b>

	<b>Course</b>	<b>Name of the paper</b>	<b>HOURS/WK</b>			<b>Credit</b>
			<b>L</b>	<b>T</b>	<b>P</b>	

<b>SEM-VIII</b>	Research	Data Collection				3
		Dissertation				4
		Viva-voce				3
		Internship			24	12
		<b>Total</b>				<b>22</b>

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits, VAC: Value-Added Courses, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses.

### **Multidisciplinary Generic Electives (MGE)**

Multidisciplinary Generic Electives is credited and choice-based. The students make a choice from pool of MGE offered by the Faculty under the University. (Reference: University Umbrella Multidisciplinary Generic Electives)

### **Value Added Courses (VAC)**

Value Added Courses is credited and choice-based. The students make a choice from pool of VAC offered by the Faculty under the University. (Reference: University Umbrella Value Added Courses)

### **Ability Enhancement Compulsory Course (AEC)**

Ability Enhancement Compulsory Courses is credited and choice-based. The students make a choice from pool of AEC offered by the Faculty under the University. (Reference: University Umbrella Ability Enhancement Compulsory Course)

### **Skill Enhancement Courses (SEC)**

Ability Enhancement Compulsory Courses is credited and choice-based. The students make a choice from pool of AEC offered by the Faculty under the University.