

**SYLLABUS STRUCTURE OF COMPUTER SCIENCE PAPER AS ONE OF THE OPTIONAL SUBJECT FOR B.Sc. THREE YEAR DEGREE PROGRAMME**

Subject Code	Sem	Subject	Theory Hours/Week	Practical Hours/Week	Duration of Exams (Hours)	Marks and Credits			
						IA	Exam	Total	Credits
G505.1	I	Problem solving using C	4	-	3	20	80	100	2
G505.1P	I	C Programming Lab	-	2+2	3	10	40	50	1
<b>G505.1E</b>	<b>I</b>	<b>Computer System Architecture</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>10</b>	<b>40</b>	<b>50</b>	<b>1</b>
G505.2	II	Data Structure Using C	4	-	3	20	80	100	2
G505.2P	II	Data Structure Lab using C	-	4	3	10	40	50	1
<b>G505.2E</b>	<b>II</b>	<b>Cyber Security</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>10</b>	<b>40</b>	<b>50</b>	<b>1</b>
G505.3	III	Java Programming	4	-	3	20	80	100	2
G505.3P	III	Java Programming Lab	-	3	3	10	40	50	1
<b>G505.3(i)E</b>	III	<b>Basics of Android Programming</b>	1	1	2	10	40	50	1
<b>G505.3(ii)E</b>		<b>Computer Hardware and Maintenance</b>	2	-	2	10	40	50	1
G505.4	IV	Relational Data Base Management System Using ORACLE	4	-	3	20	80	100	2
G505.4P	IV	RDBMS Lab	-	3	3	10	40	50	1
<b>G505.4E</b>	<b>IV</b>	<b>Office Automation</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>40</b>	<b>50</b>	<b>1</b>
G505.5A1/ G505.5A2	V	Operating System and Linux/ Principles of TCP/IP	3	-	3	20	80	100	2
G505.5B1/ G505.5B2 Elective Paper	V	Python Programming/ J2EE	3	-	3	20	80	100	2
G505.5AP & G505.5BP	V	Shell Programming using LINUX/ Principles of TCP/IP Lab & Python Lab/J2EE lab	-	2+2	2+2	20	80	100	2
G505.6A1/ G505.6A2	VI	Data Analytics / Software engineering and testing	3	-	3	20	80	100	2
G505.6B1/ G505.6B2 Elective Paper	VI	Web Programming using PHP/ Computer Networks	3	-	3	20	80	100	2
G505.6AP & G505.6BP	VI	Data Analytics lab/ Software Engineering Lab & PHP Lab/ Computer Networks lab	-	2+2	2+2	20	80	100	2