

**Structure of Four year Integrated Programme B.Sc. B.Ed. Mathematics**

**SEMESTER VI**

Part	Study Components – Course Title	Insti. hrs. per week	Weeks per semester	Hours per semester	Exam Hrs	Max. Marks		Total
						Int	Ext	
III	Core Paper- XIV Complex Analysis	6	20	120	3	30	70	100
III	Core Paper - XV Operations Research	6	20	120	3	30	70	100
III	Core Paper - XVI Combinatorics	6	20	120	3	30	70	100
III	Core Paper - XVII Fuzzy Mathematics	6	20	120	3	30	70	100
III	Core Paper - XVIII Object Oriented Programming with C++	6	20	120	3	30	70	100
IV	Learning and Teaching	3	20	60	3	30	70	100
IV	Pedagogy of a school subject Part I – Methodology (Any One) 1. Pedagogy of Mathematics 2. Pedagogy of Physical Science 3. Pedagogy of Biological Science	3	20	60	1(1/2)	15	35	50
<b>Total</b>		<b>36</b>		<b>720</b>				<b>650</b>

**Structure of Four year Integrated Programme B.Sc. B.Ed. Physical Science**

**(PHYSICS)**

**SEMESTER VI**

Part	Study Components – Course Title	Insti. hrs. per week	Weeks per semester	Hours per semester	Exam Hrs	Max. Marks		Total
						Int	Ext	
III	Core Paper - IX Solid State Physics	6	20	120	3	30	70	100
III	Core Paper – X Nuclear Physics	6	20	120	3	30	70	100
III	Core Paper - XI- Relativity and Space physics	6	20	120	3	30	70	100
III	Core Paper – XII Programming in C with Physics applications	6	20	120	2	30	70	100
III	Core Practical- III	3	20	60	3	40	60	100
III	Core Practical- IV	3	20	60	3	40	60	100
IV	Learning and Teaching	3	20	60	3	30	70	100
IV	Pedagogy of a school subject Part I – Methodology (Any One) 1. Pedagogy of Mathematics 2. Pedagogy of Physical Science 3. Pedagogy of Biological Science	3	20	60	1(1/2)	15	35	50
<b>Total</b>		<b>36</b>		<b>720</b>				<b>750</b>

SEMESTER - VI

**Structure of Four year Integrated Programme B.Sc. B.Ed. Physical Science**

**(CHEMISTRY)**

**SEMESTER VI**

Part	Study Components – Course Title	Insti. hrs. per week	Weeks per semester	Hours per semester	Exam Hrs	Max. Marks		Total
						Int	Ext	
III	Core Paper VIII Inorganic Chemistry –II	6	20	120	3	30	70	100
III	Core Paper IX Organic Chemistry –II	6	20	120	3	30	70	100
III	Core Paper X Physical Chemistry – II	6	20	120	3	30	70	100
III	Elective paper - II Spectroscopy	6	20	120	2	30	70	100
III	Core Practical - III	6	20	120	6	80	120	200
IV	Learning and Teaching	3	20	60	3	30	70	100
IV	Pedagogy of a school subject Part I – Methodology (Any One) 1. Pedagogy of Mathematics 2. Pedagogy of Physical Science 3. Pedagogy of Biological Science	3	20	60	1(1/2)	15	35	50
<b>Total</b>		<b>36</b>		<b>720</b>				<b>750</b>

**Structure of Four year Integrated Programme B.Sc. B.Ed. Biological Science**

**(BOTANY)**

**SEMESTER VI**

Part	Study Components – Course Title	Insti. hrs. per week	Weeks per semester	Hours per semester	Exam Hrs	Max. Marks		Total
						Int	Ext	
III	Core Paper : IX Plant Ecology And Environmental Biology	6	20	120	3	30	70	100
III	Core theory: X Microbiology	6	20	120	3	30	70	100
III	Core Paper: XI Bio technology	6	20	120	3	30	70	100
III	Core Paper: XII Bio techniques	6	20	120	3	30	70	100
III	Core Practical - III	3	20	60	3	40	60	100
III	Core Practical - IV	3	20	60	3	40	60	100
IV	Learning and Teaching	3	20	60	3	30	70	100
IV	Pedagogy of a school subject Part I – Methodology (Any One) 1. Pedagogy of Mathematics 2. Pedagogy of Physical Science 3. Pedagogy of Biological Science	3	20	60	1(1/2)	15	35	50
<b>Total</b>		<b>36</b>		<b>720</b>				<b>750</b>

**Structure of Four year Integrated Programme B.Sc. B.Ed. Biological Science**

**(ZOOLOGY)**

**SEMESTER VI**

Part	Study Components – Course Title	Insti. hrs. per week	Weeks per semester	Hours per semester	Exam Hrs	Max. Marks		Total
						Int	Ext	
III	Core Paper -IX Environmental Biology	6	20	120	3	30	70	100
III	Core Paper- X Biostatistics	6	20	120	3	30	70	100
III	Core Paper- XI Immunology	6	20	120	3	30	70	100
III	Core Paper -XII Biotechnology	6	20	120	2	30	70	100
III	Core Practical - III	3	20	60	3	40	60	100
III	Core Practical - IV	3	20	60	3	40	60	100
IV	Learning and Teaching	3	20	60	3	30	70	100
IV	Pedagogy of a school subject Part I – Methodology (Any One) 1. Pedagogy of Mathematics 2. Pedagogy of Physical Science 3. Pedagogy of Biological Science	3	20	60	1(1/2)	15	35	50
<b>Total</b>		<b>36</b>		<b>720</b>				<b>750</b>