

GOVERNMENT GIRLS' COLLEGE, AJMER

COURSE STRUCTURE

FACULTY OF SCIENCE

DEPARTMENT OF BOTANY

B.Sc.

|                 | <b>Paper I</b>                                   | <b>Paper II</b>                                       | <b>Paper III</b>   |
|-----------------|--|---|--|
| <b>Part I</b>   | <i>Microbiology, Mycology and Phytopathology</i> | <i>Algae, Lichens and Bryophytes</i>                  | <i>Pteridophytes and Paleobotany</i>                                 |
| <b>Part II</b>  | <i>Diversity of seed plants.</i>                 | <i>Systematics of Angiosperms</i>                     | <i>Structure, Development &amp; Reproduction in Flowering plants</i> |
| <b>Part III</b> | <i>Plant Physiology and Biochemistry</i>         | <i>Cytology, Genetics and Biotechnology of plants</i> | <i>Ecology and Utilization of Plants</i>                             |

DEPARTMENT OF CHEMISTRY

***B.Sc. Pass Course ( Maths & Bio stream)***

|                 | <b>Paper I</b>             | <b>Paper II</b>          | <b>Paper III</b>          |
|-----------------|----------------------------|--------------------------|---------------------------|
| <i>Part I</i>   | <i>Inorganic Chemistry</i> | <i>Organic Chemistry</i> | <i>Physical Chemistry</i> |
| <i>Part II</i>  | <i>Inorganic Chemistry</i> | <i>Organic Chemistry</i> | <i>Physical Chemistry</i> |
| <i>Part III</i> | <i>Inorganic Chemistry</i> | <i>Organic Chemistry</i> | <i>Physical Chemistry</i> |

## DEPARTMENT OF MATHEMATICS

### B.Sc. Pass Course

|                       |   |  |
|-----------------------|---|--|
| <i>B.Sc. Part I</i>   | <i>Paper I</i>                              | <i>Higher Algebra</i>  |
|                       | <i>Paper II</i>                             | <i>Calculus</i>  |
|                       | <i>Paper III</i>                            | <i>Geometry and Vector Calculus</i>  |
| <i>B.Sc. Part II</i>  | <i>Paper I</i>                              | <i>Abstract Algebra</i>  |
|                       | <i>Paper II</i>                             | <i>Differential Equations</i>  |
|                       | <i>Paper III</i>                            | <i>Mechanics</i>   |
| <i>B.Sc. Part III</i> | <i>Paper I</i>                              | <i>Real Analysis</i>   |
|                       | <i>Paper II</i>                             | <i>Complex Analysis</i>  |
|                       | <i>Paper III</i><br><i>Any one of these</i> | <i>Mathematical Statics</i><br><i>Linear programming and optimization technique; Theory of Numerical Analysis and Programming in "C"</i> |

## DEPARTMENT OF PHYSICS

### B.Sc. Pass Course

|                 | <b>Paper I</b>   | <b>Paper II</b>              | <b>Paper III</b>           |
|-----------------|--|------------------------------|----------------------------|
| <i>Part I</i>   | <i>Mechanics</i>   | <i>Wave and Oscillations</i> | <i>Electromagnetics</i>    |
| <i>Part II</i>  | <i>Thermal and Statistical Physics</i>                           | <i>Optics</i>                | <i>Electronics</i>         |
| <i>Part III</i> | <i>Quantum Mechanics,</i><br><i>Atomic and Molecular Physics</i> | <i>Nuclear Physics</i>       | <i>Solid State Physics</i> |

**(Practicals for all three classes)**

**DEPARTMENT OF ZOOLOGY B.Sc. Pass Course**

|                 | <b>Paper I</b>                                      | <b>Paper II</b>                           | <b>Paper III</b>                                   |
|-----------------|---|---|--|
| <i>Part I</i>   | <i>Diversity of Animals and Evolution</i>           | <i>Cell Biology and Genetics</i>          | <i>Developmental Biology</i>                       |
| <i>Part II</i>  | <i>Structure and Functions of Invertebrate Type</i> | <i>Animal Physiology and Biochemistry</i> | <i>Immunology, Microbiology and Biotechnology</i>  |
| <i>Part III</i> | <i>Structure and Function of Chordates</i>          | <i>Environmental Biology</i>              | <i>Applied Zoology, Ethology and Biostatistics</i> |