

BIOTECHNOLOGY
COURSE PATTERN AND SCHEME OF EXAMINATION

| Course Code | Title of the Course | Instructions Hours/ week | Duration of Exam (Hrs) | Marks | | | Credits |
|-----------------------|--------------------------------------------------------|--------------------------|------------------------|-------|-------------------|-------|---------|
| | | | | IA | Semester End Exam | Total | |
| Semester - I | | | | | | | |
| LS2CUDC102 | Cell Biology and Genetics | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP102 | Practical in Cell Biology and Genetics | 4 | 4 | 20 | 30 | 50 | 2 |
| Semester - II | | | | | | | |
| LS2CUDC152 | Microbiological methods and techniques | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP152 | Practical in Microbiological methods and techniques. | 4 | 4 | 20 | 30 | 50 | 2 |
| LS2CUOE168 | Applications of Biotechnology in agriculture | 3 | 2 ½ | 40 | 60 | 100 | 3 |
| Semester - III | | | | | | | |
| LS2CUDC202 | Biochemistry and Bioanalytical Techniques | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP202 | Practical in Biochemistry and Bioanalytical Techniques | 4 | 4 | 20 | 30 | 50 | 2 |
| LS2CUOE218 | Nutrition and Health | 3 | 2 ½ | 40 | 60 | 100 | 3 |

| Course Code | Title of the Course | Instructions Hours/ week | Duration of Exam (Hrs) | Marks | | | Credits |
|----------------------|---------------------------------------------------------|--------------------------|------------------------|-------|-------------------|-------|---------|
| | | | | IA | Semester End Exam | Total | |
| Semester - IV | | | | | | | |
| LS2CUDC252 | Molecular Biology | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP252 | Practical in Molecular Biology | 4 | 4 | 20 | 30 | 50 | 2 |
| LS2CUOE268 | Intellectual Property Rights | 3 | 2 ½ | 40 | 60 | 100 | 3 |
| Semester - V | | | | | | | |
| LS2CUDC304 | Genetic Engineering | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP304 | Practical in Genetic Engineering | 4 | 4 | 20 | 30 | 50 | 2 |
| LS2CUDC305 | Plant and Animal Biotechnology | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP305 | Practical in Plant and Animal Biotechnology | 4 | 4 | 20 | 30 | 50 | 2 |
| Semester - VI | | | | | | | |
| LS2CUDC354 | Immunology | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP354 | Practical in Immunology | 4 | 4 | 20 | 30 | 50 | 2 |
| LS2CUDC355 | Bioprocess and Environmental Biotechnology | 4 | 2 ½ | 40 | 60 | 100 | 4 |
| LS2CUDP355 | Practical in Bioprocess and Environmental Biotechnology | 4 | 4 | 20 | 30 | 50 | 2 |