

Programme Structure of M.Sc Biomedical Sciences

| Category | Total Number of Credits |
|--|-------------------------|
| Programme Core | 60 |
| Skill Enhancement Course (SEC) | 19 |
| Ability Enhancement Compulsory Course (AECC) | 2 |
| Generic Elective (GE) | 3 |
| Discipline Specific Elective (DSE) | 4 |
| Total Credits | 88 |

| Galgotias University, Uttar Pradesh | | | | | | | |
|--|-----------|--|-------------|---|---|---|-----------|
| M.Sc. Biomedical Sciences (SBAS) | | | | | | | |
| SEMESTER I | | | | | | | |
| Semester | Course | Course Name | Course Code | L | T | P | C |
| I | Theory | Cell Biology | MSDB5001 | 4 | 0 | 0 | 4 |
| I | Theory | Molecular Biology | MSDB5002 | 4 | 0 | 0 | 4 |
| | Theory | Biomolecules | MSDB5003 | 4 | 0 | 0 | 4 |
| I | Theory | Organic Chemistry | MSBM5004 | 4 | 0 | 0 | 4 |
| I | Practical | Advanced Biomedical Science Lab-I | MSBM5005 | 0 | 0 | 4 | 2 |
| Credits | | | | | | | 18 |
| SEMESTER II | | | | | | | |
| Semester | Course | Course Name | Course Code | L | T | P | C |
| II | Theory | Immunology | MSDB5006 | 4 | 0 | 0 | 4 |
| II | Theory | Bioanalytical and Microbial Techniques | MSDB5007 | 4 | 0 | 0 | 4 |
| II | Theory | Biotechnology and Genetic Engineering | MSDB5008 | 4 | 0 | 0 | 4 |
| II | Theory | Web based Course/Seminar | MSDB5009 | 4 | 0 | 0 | 4 |
| | Theory | Physiology | MSBM5010 | 6 | 0 | 0 | 6 |
| II | Theory | Metabolism of Biomolecules | MSBM5011 | 4 | 0 | 0 | 4 |
| II | Practical | Advanced Biomedical Science Lab-II | MSBM5012 | 0 | 0 | 4 | 2 |
| Credits | | | | | | | 26 |
| | | | | | | | |

| SEMESTER III | | | | | | | |
|----------------------|---------------|---|--------------------|----------|----------|----------|-----------|
| Semester | Course | Course Name | Course Code | L | T | P | C |
| III | Theory | Research Methodology | MSCR5001 | 3 | 0 | 0 | 3 |
| III | Theory | Genetics | MSDB6001 | 4 | 0 | 0 | 4 |
| | Theory | Medical and Pharmaceutical Microbiology | MSDB6002 | 4 | 0 | 0 | 4 |
| III | Theory | Summer Training | MSBM6003 | 0 | 0 | 0 | 3 |
| III | Theory | Pharmacology and Toxicology | MSBM6004 | 4 | 0 | 0 | 4 |
| III | Theory | Principles of Medicinal Chemistry | MSBM6005 | | | | |
| III | Theory | Elective* | MSDB* | 4 | 0 | 0 | 4 |
| III | Practical | Advanced Biomedical Science Lab-III | MSBM6007 | 0 | 0 | 4 | 2 |
| Credit | | | | | | | 28 |
| SEMESTER IV | | | | | | | |
| VI | Project | Dissertation | MSBM9999 | 0 | 0 | 0 | 16 |
| | | | | | | | |
| TOTAL CREDITS | | | | | | | 88 |

| Electives | | | | | | |
|------------------|--------------------|-------------------------------|----------|----------|----------|----------|
| Sl. No. | Course code | Course Title | L | T | P | C |
| 1 | MSDB6011 | Computational Biology | 4 | 0 | 0 | 4 |
| 2 | MSDB6012 | Bioethics, Bio-safety and IPR | 4 | 0 | 0 | 4 |
| 3 | MSDB6013 | Toxicology | 4 | 0 | 0 | 4 |
| 4 | MSDB6016 | Industrial Biochemistry | 4 | 0 | 0 | 4 |
| 5 | MSDB6017 | Advanced Microbiology | 4 | 0 | 0 | 4 |
| 6 | MSDB6018 | Plant –Pathogen interaction | 4 | 0 | 0 | 4 |