

Curriculum

For

B.Sc. (Honours) Microbiology

KAZI NAZRUL UNIVERSITY

Curriculum For B.Sc. Honours in Microbiology [Choice Based Credit System]

Semester-I

| Sr. No. | Name of the Subject | Nature | Code | Teaching Scheme in hour per week | | | credit |
|-------------------------|--|--------------------------|------|----------------------------------|---|---|--------|
| | | | | L | T | P | |
| 1 | Introduction to Microbiology & Microbial Diversity | Core Course-I | | 5 | 1 | 0 | 6 |
| 2 | Bacteriology | Core Course-II | | 4 | 0 | 0 | 4 |
| 3 | Bacteriology Lab | Core Course-II Practical | | 0 | 0 | 4 | 2 |
| 4 | GE-I | GE | | | | | 4/5 |
| 5 | GE-I Lab/Tutorial | GE | | | | | 2/1 |
| 6 | EVS | AECC | | | | | 4 |
| Total Credit =22 | | | | | | | |

Semester-II

| Sr. No. | Name of the Subject | Nature | Code | Teaching Scheme in hour per week | | | credit |
|-------------------------|---------------------------|---------------------------|------|----------------------------------|---|---|--------|
| | | | | L | T | P | |
| 1 | Biochemistry | Core Course III | | 4 | 0 | 0 | 4 |
| 2 | Biochemistry Lab | Core Course-III Practical | | 0 | 0 | 4 | 2 |
| 3 | Biophysics & Virology | Core Course-IV | | 4 | 0 | 0 | 4 |
| 4 | Biophysics & Virology Lab | Core Course-IV Practical | | 0 | 0 | 4 | 2 |
| 5 | GE-II | GE | | | | | 4/5 |
| 6 | GE-II Lab/Tutorial | GE | | | | | 2/1 |
| 7 | Eng/MIL | AECC | | | | | 2 |
| Total Credit =20 | | | | | | | |

Semester-III

| Sr. No. | Name of the Subject | Nature | Code | Teaching Scheme in hour per week | | | credit |
|-------------------------|---------------------------------------|-------------------------|------|----------------------------------|---|---|--------|
| | | | | L | T | P | |
| 1 | Microbial Physiology & Metabolism | Core Course-V | | 4 | 0 | 0 | 4 |
| 2 | Microbial Physiology & Metabolism Lab | Core Course-V Practical | | 0 | 0 | 4 | 2 |
| 3 | Cell Biology | Core Course-VI | | 5 | 1 | 0 | 6 |
| 4 | Molecular Biology | Core Course VII | | 5 | 1 | 0 | 6 |
| 5 | GE-III | GE | | | | | 4/5 |
| 6 | GE-III Lab/Tutorial | GE | | | | | 2/1 |
| 7 | SEC -I | AEEC-I | | | | | 2 |
| Total Credit =26 | | | | | | | |

Semester-IV

| Sr. No. | Name of the Subject | Nature | Code | Teaching Scheme in hour per week | | | credit |
|--------------------------|---|----------------------------|------|----------------------------------|---|---|--------|
| | | | | L | T | P | |
| 1 | Environmental & Agricultural Microbiology | Core Course-VIII | | 4 | 0 | 0 | 4 |
| 2 | Environmental & Agricultural Microbiology Lab | Core Course-VIII Practical | | 0 | 0 | 4 | 2 |
| 3 | Food & Dairy Microbiology | Core Course IX | | 4 | 0 | 0 | 4 |
| 4 | Food & Dairy Microbiology Lab | Core Course-IX Practical | | 0 | 0 | 4 | 2 |
| 5 | Industrial Microbiology | Core Course X | | 5 | 1 | 0 | 6 |
| 6 | GE-IV | GE | | | | | 4/5 |
| 7 | GE-IV Lab/Tutorial | GE | | | | | 2/1 |
| 8 | SEC -II | AEEC-II | | | | | 2 |
| Total Credit = 26 | | | | | | | |

Semester-V

| Sr. No. | Name of the Subject | Nature | Code | Teaching Scheme in hour per week | | | credit |
|---------|--------------------------|---------------------------|------|----------------------------------|---|---|--------|
| | | | | L | T | P | |
| 1 | Immunology | Core Course-XI | | 5 | 1 | 0 | 6 |
| 2 | Medical Microbiology | Core Course XII | | 4 | 0 | 0 | 4 |
| 3 | Medical Microbiology Lab | Core Course-XII Practical | | 0 | 0 | 4 | 2 |
| 4 | DSE -I | DSE-I | | | | | 4/5 |
| 5 | DSE –I Lab/Tutorial | DSE-I | | | | | 2/1 |
| 6 | DSE -II | DSE-II | | | | | 4/5 |
| 7 | DSE –II Lab/Tutorial | DSE-II | | | | | 2/1 |
| | | | | Total Credit = 24 | | | |

Semester-VI

| Sr. No. | Name of the Subject | Nature | Code | Teaching Scheme in hour per week | | | credit |
|---------|----------------------------|----------------------------|------|----------------------------------|---|---|--------|
| | | | | L | T | P | |
| 1 | Microbial Genetics | Core Course-XIII | | 4 | 0 | 0 | 4 |
| 2 | Microbial Genetics Lab | Core Course-XIII Practical | | 0 | 0 | 4 | 2 |
| 3 | Recombinant DNA Technology | Core Course XIV | | 5 | 1 | 0 | 6 |
| 4 | DSE -III | DSE-III | | | | | 4/5 |
| 5 | DSE –III Lab/Tutorial | DSE-III | | | | | 2/1 |
| 6 | DSE -IV | DSE-IV | | | | | 4/5 |
| 7 | DSE –IV Lab/Tutorial | DSE-IV | | | | | 2/1 |
| | | | | Total Credit =24 | | | |

Total Credit: 142

