

Proposed scheme of absorption for students of old syllabus of B.Tech Biotechnology into a new syllabus

As per RTM Nagpur University semester pattern
New syllabus

IIIrd Semester

| Sr. No | Code(Board) Theo./Pract | Subject | Th/Pr |
|--------|-------------------------|--|-----------|
| 1 | BT BIT 301T (BBT) | Microbiology | Theory |
| 2 | BT BIT 302T (BBT) | Bioprocess calculation | Theory |
| 3 | BT BIT 303T (BBT) | Bioorganic chemistry | Theory |
| 4 | BT BIT 304T (BGE) | Applied Mathematics III | Theory |
| 5 | BT BIT 305T (BGE) | Applied Physical Chemistry II | Theory |
| 7 | BT BIT 306P (BBT) | Microbiology Laboratory | Practical |
| 6 | BT BIT 307P (BBT) | Bioorganic chemistry Laboratory | Practical |
| 8 | BT BIT 308P (BGE) | Applied Physical Chemistry II Laboratory | Practical |

IVth Semester

| Sr. No | Code(Board) Theo./Pract | Subject | Th/Pr |
|--------|-------------------------|--|-----------|
| 1 | BT BIT 401T (BBT) | Biochemistry Metabolism | Theory |
| 2 | BT BIT 402T (BBT) | Plant Utility | Theory |
| 3 | BT BIT 403T (BBT) | Analytical Biotechnology | Theory |
| 4 | BT BIT 404T (BBT) | Cell Biology | Theory |
| 5 | BT BIT 405T (BGE) | Electronics & Instrumentation | Theory |
| 7 | BT BIT 405P (BBT) | Analytical Biotechnology Laboratory | Practical |
| 6 | BT BIT 405P (BBT) | Biochemistry Metabolism Laboratory | Practical |
| 8 | BT BIT 405P (BGE) | Electronics & Instrumentation Laboratory | Practical |

As per RTM Nagpur University semester pattern
old syllabus

IIIrd Semester

| Sr. No | Code(Board) Theo./Pract | Subject | Th/Pr |
|--------|-------------------------|--|-----------|
| 1 | 3S.BT.01(BBT) | Microbiology | Theory |
| 2 | 3S.BT.02(BBT) | Bioprocess calculation | Theory |
| 3 | 3S.BT.03(BBT) | Bioorganic chemistry | Theory |
| 4 | 3S.BT.04(BGE) | Applied Mathematics II | Theory |
| 5 | 3S.BT.05(BGE) | Electronics & Instrumentation | Theory |
| 7 | 3S.BT.06(BBT) | Microbiology Laboratory | Practical |
| 6 | 3S.BT.07(BBT) | Bioorganic chemistry Laboratory | Practical |
| 8 | 3S.BT.08(BGE) | Electronics & Instrumentation Laboratory | Practical |

IVth Semester

| Sr. No | Code(Board) Theo./Pract | Subject | Th/Pr |
|--------|-------------------------|--|-----------|
| 1 | 4SBT01(BBT) | Biochemistry Metabolism | Theory |
| 2 | 4SBT02(BGE) | Plant Utility | Theory |
| 3 | 4SBT03(BGE) | Electrical Engineering | Theory |
| 4 | 4SBT04(BBT) | Cell Biology | Theory |
| 5 | 4SBT05(BGE) | Applied Physical Chemistry II | Theory |
| 7 | 4SBT06(BGE) | Electrical Engineering Laboratory | Practical |
| 6 | 4SBT07(BBT) | Biochemistry Metabolism Laboratory | Practical |
| 8 | 4SBT08(BGE) | Applied Physical Chemistry II Laboratory | Practical |

Vth Semester

| Sr. No | Code (Board) Theo./Pract | Subject | Th/Pr |
|--------|--------------------------|---|-----------|
| 1 | BT BIT 501T (BBT) | Fluid Mechanics & Solid Handling | Theory |
| 2 | BT BIT 502T (BBT) | Biochemical Reaction Engineering I | Theory |
| 3 | BT BIT 503T (BBT) | Heat Transfer in Biotechnology | Theory |
| 4 | BT BIT 504T (BBT) | Molecular Biology | Theory |
| 5 | BT BIT 505T (BBT) | Immunology | Theory |
| 7 | BT BIT 506P (BBT) | Fluid Mechanics & Solid Handling Laboratory | Practical |
| 6 | BT BIT 507P (BBT) | Heat Transfer in Biotechnology Laboratory | Practical |
| 8 | BT BIT 508P (BBT) | Molecular Biology Laboratory | Practical |

VIth Semester

| Sr. No | Code (Board) Theo./Pract | Subject | Th/Pr |
|--------|--------------------------|---|-----------|
| 1 | BT BIT 601T (BBT) | Genetic Engineering | Theory |
| 2 | BT BIT 602T (BBT) | Mass Transfer in Biotechnology | Theory |
| 3 | BT BIT 603T (BBT) | Biochemical Reaction Engineering II | Theory |
| 4 | BT BIT 604T (BBT) | Process Control in Biotechnology | Theory |
| 5 | BT BIT 605T (BBT) | Industrial Biotechnology | Theory |
| 7 | BT BIT 606T (BBT) | Communication English | Theory |
| 6 | BT BIT 607P (BBT) | Mass Transfer in Biotechnology Laboratory | Practical |
| 8 | BT BIT 608P (BBT) | Process Control in Biotechnology Laboratory | Practical |
| 9 | BT BIT 609P (BBT) | Industrial Biotechnology Laboratory | Practical |

Vth Semester

| Sr. No | Code (Board) Theo./Pract | Subject | Th/Pr |
|--------|--------------------------|---|-----------|
| 1 | 5S BT.01(BBT) | Fluid Mechanics & Solid Handling | Theory |
| 2 | 5S BT.02(BBT) | Analytical Biotechnology | Theory |
| 3 | 5S BT.03(BBT) | Heat Transfer in Biotechnology | Theory |
| 4 | 5S BT.04(BBT) | Molecular Biology | Theory |
| 5 | 5S BT.05(BBT) | Immunology | Theory |
| 6 | 5S BT.06(BBT) | Fluid Mechanics & Solid Handling Laboratory | Practical |
| 7 | 5S BT.07(BBT) | Analytical Biotechnology Laboratory | Practical |
| 8 | 5S BT.08(BBT) | Molecular Biology Laboratory | Practical |

VIth Semester

| Sr. No | Code (Board) Theo./Pract | Subject | Th/Pr |
|--------|--------------------------|---|-----------|
| 1 | 6S BT.01(BBT) | Genetic Engineering | Theory |
| 2 | 6S BT.02(BBT) | Mass Transfer in Biotechnology | Theory |
| 3 | 6S BT.03(BBT) | Biochemical Reaction Engineering | Theory |
| 4 | 6S BT.04(BBT) | Process Control in Biotechnology | Theory |
| 5 | 6S BT.05(BBT) | Industrial Biotechnology | Theory |
| 6 | 6S BT.06(BBT) | Mass Transfer in Biotechnology Laboratory | Practical |
| 7 | 6S BT.07(BBT) | Process Control in Biotechnology Laboratory | Practical |
| 9 | 6S BT.08(BBT) | Industrial Biotechnology Laboratory | Practical |

