


**AMITY INSTITUTE OF BIOTECHNOLOGY**  
**AMITY UNIVERSITY MADHYA PRADESH, GWALIOR**

**Courses having focus on employability/ entrepreneurship/ skill development/ higher education during the last five years**

Name of the Course	Course Code
Introduction to Computers	BTB 104
Life Sciences-I	BTB 105
Programming in C Lab	BTB 122
Engineering Graphics Lab	BTB 123
English Language Usage Essentials	BTB 141
Environmental Studies - I	BTB 142
Understanding Self For Effectiveness	BTB 143
French	BTB 144
Object Oriented Programming in C++	BTB 204
Life Science-II	BTB 206
Object Oriented Programming in C++ Lab	BTB 222
Electrical Science Lab	BTB 223
Introduction to Communication Skill	BTB 241
Environmental Studies – II	BTB 242
Individual, Society and Nation	BTB 243
French	BTB 244
Cell Biology	BTB301
Biochemistry – I	BTB302
Microbiology	BTB303
Molecular Biology	BTB304
Data Structure & Algorithms	BTB305
Cell Biology Lab	BTB320
Biochemistry Lab - I	BTB321
Microbiology Lab	BTB322
Molecular Biology Lab	BTB323
Data Structure Lab	BTB324
Effective Written Communication	BTB341
Problem Solving & Creative Thinking	BTB343
French	BTB344
Term Paper (Evaluation)	BTB330
Biochemistry – II	BTB401
Genetics	BTB402
Methods & Instrumentation in Biotechnology	BTB403
Database Management Systems	BTB404
Chemical Biology	BTB405
Biochemistry Lab - II	BTB420
Genetics Lab	BTB421
Methods & Instrumentation in Biotechnology Lab	BTB422
Database Management Systems Lab	BTB423
Professional Communication for Recruitment & Employability	BTB441
Values & Ethics for Personal & Professional Development	BTB443
French	BTB444
Plant Biotechnology	BTB501
Animal Biotechnology	BTB502
Java - I	BTB503
Chemical Engineering Principles	BTB504
Basic Bioanalytical Techniques	BTB505
Structural Biology	BTB506
Plant Biotechnology Lab	BTB520
Animal Biotechnology Lab	BTB521
Java Lab - I	BTB522
Structural Biology Lab	BTB523
Receptive and Expressive Communication Skill	BTB541
Group Dynamics and Team Building	BTB543
French	BTB544
Summer Project – I (Evaluation)	BTB560

  
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Recombinant DNA Technology	BTB601
Enzymology & Enzyme Technology	BTB602
Immunology & Immunotechnology	BTB603
Computational Biology	BTB604
Fundamentals of Biochemical Engineering	BTB605
Recombinant DNA Technology Lab	BTB620
Enzymology & Enzyme Technology Lab	BTB621
Immunology & Immunotechnology Lab	BTB622
Computational Biology Lab	BTB623
Social Communication	BTB641
Stress & Coping Strategies	BTB643
French	BTB644
Bioprocess Technology	BTB701
Downstream Processing	BTB702
Statistics for Biology	BTB703
Java - II	BTB704
Environmental Biotechnology	BTB708
Bioprocess Technology Lab	BTB720
JAVA Lab - II	BTB721
Downstream Processing Lab	BTB722
Workplace Communication	BTB741
Individual, Society and Nation	BTB743
French	BTB744
Summer Project - II (Evaluation)	BTB760
Genomic & Proteomics	BTB801
Drug Delivery Systems	BTB802
Project Management	BTB803
Management, Accounting & Cost Control	BTB804
Principles of Management & Enterprenurship Development	BTB805
VB.NET (Console Applications & Window Forms)	BTB806
Genomic & Proteomics Lab	BTB820
VB.NET Lab	BTB821
Cross Cultural Communication	BTB841
Personal & Professional Excellence	BTB843
French	BTB844
Major Project (10-12 Weeks)	BTB860
Cell Biology	BSB 101
Maths & Biostatistics	BSB 102
Plant Sciences – I	BSB 103
Animal Sciences-I	BSB 104
Biotechnology Lab - I	BSB 120
Chemistry Lab – I	BSB 121
Plant Sciences Lab - I	BSB 122
Animal Sciences Lab-I	BSB 123
English Language Usage Essentials	BSB 141
Environmental Studies – I	BSB 142
Understanding Self For Effectiveness	BSB 143
French	BSB 144
Introductory Biochemistry & Biophysics	BSB 201
Bioanalytical Techniques	BSB 202
Plant Sciences – II	BSB 203
Animal Sciences-II	BSB 204
Biotechnology Lab – II	BSB 220
Chemistry Lab – II	BSB 221
Plant Sciences Lab – II	BSB 222
Animal Sciences Lab-II	BSB 223
Introduction to Communication Skill	BSB 241
Environmental Studies – II	BSB 242
Individual, Society and Nation	BSB 243
French	BSB 244
Genetics	BSB 301
Microbiology	BSB 302
Biochemistry & Metabolic Regulation	BSB 303
Anatomy & Plant Physiology	BSB 304

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Animal Physiology-I	BSB 305
Biotechnology Lab – III	BSB 320
Chemistry Lab – III	BSB 321
Anatomy & Plant Physiology Lab	BSB 322
Animal Physiology Lab-I	BSB 323
Effective Written Communication	BSB 341
Problem Solving & Creative Thinking	BSB 343
French	BSB 344
Term Paper (Evaluation)	BSB 330
Bioinformatics	BSB 401
Molecular Cell Biology	BSB 402
Immunology	BSB 403
Plant Breeding, Embryology, Pathology & Economic Botany	BSB 404
Animal Physiology-II	BSB 405
Biotechnology Lab - IV	BSB 420
Plant Breeding, Embryology, Pathology & Economic Botany Lab	BSB 421
Animal Physiology Lab-II	BSB 422
Professional Communication for Recruitment & Employability	BSB441
Values & Ethics for Personal & Professional Development	BSB 443
French	BSB 444
Plant Biotechnology	BSB 501
Animal Biotechnology	BSB 502
Immunotechnology	BSB 503
Genomics & Proteomics	BSB 504
Recombinant DNA Technology	BSB 505
Microbial Technology	BSB 506
Biotechnology Lab - V	BSB 520
Genomics & Proteomics Lab	BSB 521
Receptive and Expressive Communication Skill	BSB 541
Group Dynamics and Team Building	BSB 543
French	BSB 544
Summer Training (Evaluation)	BSB 550
Environmental Biotechnology	BSB 601
Industrial Biology	BSB 602
Principles of Management & Entrepreneurship Development	BSB 603
Environmental & Industrial Biotechnology Lab	BSB 620
Social Communication	BSB 641
Stress & Coping Strategies	BSB 643
French	BSB 644
Project (10-12 Week)	BSB 660
Biochemistry & Metabolic Regulation	MTB101
Advanced Microbial Technology	MTB102
Instrumentation in Biotechnology	MTB103
Bioinformatics	MTB104
Advance Biostatistics for Biologists	MTB105
Biochemistry Lab	MTB120
Microbiology Lab	MTB121
Instrumentation in Biotechnology Lab	MTB122
Bioinformatics Lab	MTB123
Advanced Communication	MTB141
Self-Development for Interpersonal Skills	MTB143
French	MTB144
Cell & Molecular Biology	MTB201
Recombinant DNA Technology	MTB202
Bioprocess Technology	MTB203
Genomics & Proteomics	MTB204
Pharmaceutical Biotechnology	MTB205
Environmental Biotechnology	MTB206
Cell & Molecular Biology Lab	MTB220
Recombinant DNA Technology Lab	MTB221
Bioprocess Technology Lab	MTB222
Genomics & Proteomics Lab	MTB223
Communicational for Employment	MTB241
Conflict Resolution and Management	MTB243

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French	MTB244
Immunology & Immunotechnology	MTB301
Enzymology & Enzyme Technology	MTB302
Drug Design & Development	MTB303
Bioprocess Plant Design	MTB304
Drug Delivery Systems	MTB306
Immunology & Immunotechnology Lab	MTB320
Enzymology & Enzyme Technology Lab	MTB321
Professional Communicational Skills	MTB341
Professional Competencies & Career Development	MTB343
French	MTB344
Summer Project (Evaluation)	MTB360
Project (20-22 weeks)	MTB460
Research Methodology	PhDBT 101
Review of Literature	PhDBT 104
Genomics and Proteomics	PhDBT 102
IPR, Biosafety and Bioethics	PhDBT 103
Instrumentation in Biotechnology	PhDBT 105
Enzymology and Enzyme Technology	PhDBT 106
Immunology and Immunotechnology	PhDBT 107
Environmental Biotechnology	PhDBT 108
Advanced Biochemistry	PhDBT 109
Advanced Microbial Technology	PhDBT 110
Advanced Molecular Biology	PhDBT 111
Bioprocess Technology	PhDBT 112
Advanced Biochemistry	MSB101
Advanced Microbial Technology	MSB102
Biophysics & Bioanalytical Techniques	MSB103
Advanced Cell Biology & Genetics	MSB104
Advanced Biostatistics for Biologists	MSB105
Computer Applications	MSB106
Biochemistry Lab	MSB120
Advanced Microbial Technology Lab	MSB121
Cell Biology & Genetics Lab	MSB122
Computer Applications Lab	MSB123
Advanced Communication	MSB141
Self-Development for Interpersonal Skills	MSB143
French	MSB 144
Advanced Molecular Biology	MSB201
Advances in Genetic Engineering	MSB202
Bioprocess Technology	MSB203
Advanced Genomics & Proteomics	MSB204
Computational Biology	MSB205
Environmental Biotechnology	MSB206
Advanced Molecular Biology Lab	MSB220
Genetic Engineering Lab	MSB221
Bioprocess Technology Lab	MSB222
Advanced Genomics & Proteomics Lab	MSB223
Computational Biology Lab	MSB224
Communicational for Employment	MSB241
Conflict Resolution and Management	MSB243
French	MSB 244
Advanced Immunology	MSB301
Enzyme Technology	MSB302
Drug Design & Development	MSB303
Advanced Animal Biotechnology	MSB304
Advanced Plant Biotechnology	MSB305
Drug Delivery Systems	MSB306
Advanced Immunology Lab	MSB320
Enzyme Technology Lab	MSB321
Advanced Animal Biotechnology & Plant Biotechnology Lab	MSB322
Professional Communicational Skills	MSB341
Professional Competencies & Career Development	MSB343
French	MSB344

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Summer Internship (Evaluation)	MSB350
Project (20 - 22 weeks)	MSB460
Cell Biology	BMB 101
Maths& Biostatistics	BMB 102
Plant Sciences – I	BMB 103
Animal Sciences-I	BMB 104
Chemistry – I	BMB 105
Biotechnology Lab - I	BMB 120
Chemistry Lab – I	BMB 121
Plant Sciences Lab - I	BMB 122
Animal Sciences Lab-I	BMB 123
Communication Skill - I	BCU 141
Environmental Studies - I	EVS 142
Behavioural Science - I	BSU 143
French - I	FLU 144
Introductory Biochemistry & Biophysics	BMB 201
Bioanalytical Techniques	BMB 202
Plant Sciences – II	BMB 203
Animal Sciences-II	BMB 204
Chemistry – II	BMB 205
Biotechnology Lab – II	BMB 220
Chemistry Lab – II	BMB 221
Plant Sciences Lab – II	BMB 222
Animal Sciences Lab-II	BMB 223
Communication Skill - II	BCU 241
Environmental Studies - II	EVS 242
Behavioural Science - II	BSU243
French - II	FLU 244
Genetics	BMB 301
Microbiology	BMB 302
Biochemistry & Metabolic Regulation	BMB 303
Anatomy & Plant Physiology	BMB 304
Animal Physiology-I	BMB 305
Chemistry – III	BMB 306
Biotechnology Lab – III	BMB 320
Chemistry Lab – III	BMB 321
Anatomy & Plant Physiology Lab	BMB 322
Animal Physiology Lab-I	BMB 323
Communication Skill - III	BCU 341
Behavioural Science - III	BSU343
French - III	FLU 344
Bioinformatics	BMB 401
Molecular Cell Biology	BMB 402
Immunology & Immunotechnology	BMB 403
Plant Breeding, Embryology, Pathology & Economic Botany	BMB 404
Animal Physiology-II	BMB 405
Chemistry – IV	BMB 406
Biotechnology Lab - IV	BMB 420
Plant Breeding, Embryology, Pathology & Economic Botany Lab	BMB 421
Animal Physiology Lab-II	BMB 422
Communication Skill - IV	BCU 441
Behavioural Science - IV	BSU443
French - IV	FLU 444
Plant Biotechnology	BMB 501
Animal Biotechnology	BMB 502
Genomics & Proteomics	BMB 503
Recombinant DNA Technology	BMB 504
Biotechnology Lab - V	BMB 520
Genomics & Proteomics Lab	BMB 521
Communication Skill - V	BCU 541
Behavioural Science - V	BSU 543
French - V	FLU 544
Summer Training (Evaluation)	BMB 550
Environmental Biotechnology	BMB 601

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Industrial Biology	BMB 602
Principles of Management & Entrepreneurship Development	BCH 623
Environmental & Industrial Biotechnology Lab	BMB 620
Communication Skill - VI	BCU 641
Behavioural Science - VI	BSU 643
French - VI	FLU 644
Project (10-12 Week)	BMB 660
Advanced Biochemistry	BMB701
Advanced Microbial Technology	BMB702
Biophysics & Bioanalytical Techniques	BMB703
Advanced Cell Biology & Genetics	BMB704
Advanced Biostatistics for Biologists	BMB705
Computer Applications	CSE 703
Biochemistry Lab	BMB720
Advanced Microbial Technology Lab	BMB721
Cell Biology & Genetics Lab	BMB722
Computer Applications Lab	CSE 723
Advanced Communication - I	BCE741
Behavioural Science - I	BSP743
French - I	FLP744
Advanced Molecular Biology	BMB801
Advances in Genetic Engineering	BMB802
Bioprocess Technology	BMB803
Advanced Genomics & Proteomics	BMB804
Computational Biology	BMB805
Environmental Biotechnology	BMB806
Advanced Molecular Biology Lab	BMB820
Genetic Engineering Lab	BMB821
Bioprocess Technology Lab	BMB822
Advanced Genomics & Proteomics Lab	BMB823
Computational Biology Lab	BMB824
Advanced Communication - II	BCE841
Behavioural Science - II	BSP843
French - II	FLP844
Advanced Immunology	BMB901
Enzyme Technology	BMB902
Advanced Animal Biotechnology	BMB903
Advanced Plant Biotechnology	BMB904
· Drug Design & Development	BMB905
· Drug Delivery Systems	BMB906
· Pharmaceutical Biotechnology	BMB907
· IPR, Biosafety & Bioethics	BMB908
· Clinical Biotechnology	BMB909
· Nanobiotechnology	BMB910
· Entrepreneurship In Biotechnology	BMB911
Advanced Immunology Lab	BMB920
Enzyme Technology Lab	BMB921
Advanced Animal Biotechnology & Plant Biotechnology Lab	BMB922
Advanced Communication - III	BCE941
Behavioural Science - III	BSP943
French - III	FLP944
Summer Internship (Evaluation)	BMB950
Project (20 - 22 weeks)	BMB 1060
Botany- I (Plant Diversity: Thallophyta)	BSC101
Zoology - I (In vertebrate )	BSC102
Chemistry – I	BSC103
Chemistry Lab – I	BSC120
Botany Lab - I (Diversity of Microbes and Cryptogams)	BSC121
Zoology Lab-I (Life and Diversity of Animals)	BSC122
Communication Skill - I	BCU141
Environmental Studies - I	EVS142
Behavioural Science - I	BSU143
French - I	FLU 144
Botany – II (Plant Diversity: Bryophytes, Pteridophytes & Gymnosperms	BSC201

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Zoology-II (Vertebrate)	BSC202
Chemistry – II	BSC203
Chemistry Lab – II	BSC220
Botany Lab – II (Cell Biology and Genetics)	BSC221
Zoology Lab-II (Cell and Developmental Biology)	BSC222
Communication Skill - II	BCU241
Environmental Studies - II	EVS242
Behavioural Science - II	BSU243
French - II	FLU 244
Botany – III Plant Diversity: Angiosperms	BSC301
Zoology –III (Genetics)	BSC302
Chemistry – III	BSC303
Chemistry Lab – III	BSC320
Botany Lab–III (Diversity of Seed Plants and their Systematic)	BSC321
Zoology Lab–III (Genetics)	BSC322
Communication Skill - III	BCU341
Behavioural Science - III	BSU343
French - III	FLU 344
Term Paper (Evaluation)	BSC 330
Botany – IV Plant Physiology	BSC401
Zoology-IV (Animal Physiology)	BSC402
Chemistry – IV	BSC403
Chemistry Lab-IV	BSC420
Botany Lab-IV (Structure, Development and Reproduction in Flowering Plants)	BSC421
Zoology Lab-IV (Animal Physiology)	BSC422
Communication Skill - IV	BCU441
Behavioral Science - IV	BSU443
French - IV	FLU 444
Botany – V Plant Breeding, Pathology & Economic Botany	BSC501
Zoology –V (Environment Biology and Evolution)	BSC502
Chemistry – V	BSC503
Chemistry Lab V	BSC521
Botany Lab-V (Plant Physiology, Biochemistry and Biotechnology)	BSC522
Zoology Lab-V	BSC523
Communication Skill - V	BCU 541
Behavioural Science - V	BSU 543
French - V	FLU 544
Botany – VI Plant Ecology	BSC601
Zoology-VI (Applied Zoology)	BSC602
Chemistry – VI	BSC603
Principles of Management & Entrepreneurship Development	BCH 623
Communication Skill - VI	BCU 641
Behavioural Science - VI	BSU643
French - VI	FLU 644
Project (10-12 Week)	BSC 660
Research Methodology	PhDEVS101
Research Techniques & Instrumentation	PhDEVS102
Advances in Environmental Science	PhDEVS103
Review Literature	PhDEVS104
Research Methodology	PhDEVS101
Research Techniques & Instrumentation	PhDEVS105
Advances in Environmental Science	PhDEVS106
Review Literature	PhDEVS104



**Prof. (Dr.) R. S. Tomar**  
 Director, Amity Institute of Biotechnology  
 Dean (Life Sciences) & Dean (Academics)  
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