

BITS Pilani Dubai Campus, Dubai, UAE

Semester-wise pattern for Students Admitted to Higher Degree Program in the First Semester

M.E. Biotechnology

Year	I Semester				U	II Semester				U	Summer Term			U	
I	BITS	G659	Technical Communication	4	14	BITS	G620	Professional Practice I	3	12	BIO	G611	Environmental Biotechnology	5	10
	BIO	G512	Molecular Mechanism of Gene Expression	5		BIO	G642	Experimental Techniques	5		BIO	G643	Plant Biotechnology	5	
	BIO	G542	Advanced Cell and Molecular Biology	5		BIO	G641	Cell & Tissue Culture Technology	4						
II	BITS	G621	Professional Practice II	3	11 (min.)	BITS	G629T	Dissertation	10	13 (min.)	BITS	G629T	Dissertation	7	7
	BIO	G513	Microbial & Fermentation Technology 1 Elective	5 *				1 Elective	*						

* Minimum 3 Units each Elective

Pool of Electives (Any two from the following)

Elective offerings are subject to availability of (i) faculty who can offer the elective and (ii) the minimum viable no. of students opting for the elective

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| <ol style="list-style-type: none"> 1. BENG G521 Bioinformatics 5 2. BIO C417 Biomolecular Modeling 3 0 3 3. BIO C418 Genetic Engineering Techniques 1 9 4 4. BIO C421 Enzymology 3 0 3 5. BIO C441 Biochemical Engineering 3 0 3 6. BIO C451 Bioprocess Technology 3 7. BIO C461 Recombinant DNA Technology 3 0 3 8. BIO G514 Molecular Immunology 5 9. BIO G515 Stem Cell and Regenerative Biology 3 1 4 | <ol style="list-style-type: none"> 10. BIO G522 Interferon Technology 4 11. BIO G532 Biostatistics and Biomodelling 4 12. BIO G612 Human Genetics 5 13. BIO G631 Membrane and Liposome Technology 4 14. BIO G632 Transgenic Technology 5 15. BIO G651 Protein and Enzyme Bioengineering 5 16. BIO G661 Gene Toxicology 4 17. BIO G671 Bioconversion Technology 5 18. BITS C467 Bioethics and Biosafety 3 0 3 |
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- Note:**
1. Semester wise pattern given above is as suggested by the appropriate Senate-appointed committee, subject to change if the situation warrants.
 2. Pool of Electives listed above are currently approved by Senate, subject to change if the situation warrants.
 3. Upon comparing the student's input degree curriculum with BITS degree curriculum, if a student is found to be inadequately prepared, one or more Deficiency courses may be prescribed and added to the courses of the Semester wise pattern (Chart) given above.