

P A COLLEGE OF ENGINEERING
DEPARTMENT OF BIOTECHNOLOGY

NPTEL WEB LINK FOR VARIOUS COURSES OF BIOTECHNOLOGY PROGRAM

Sem	Subject Code	Subject Name	NPTEL WEB LINK
III	18BT31	Biostatistics	https://nptel.ac.in/courses/102/101/102101056/ https://nptel.ac.in/courses/102/101/102101067/ https://nptel.ac.in/courses/102/106/102106051/
	18BT32	Microbiology	https://nptel.ac.in/courses/102/105/102105087/ https://nptel.ac.in/courses/102/103/102103015/
	18BT33	Unit Operations:	https://nptel.ac.in/courses/102/106/102106083/
	18BT34	Introduction to Biomolecules	https://nptel.ac.in/courses/102/107/102107086/ https://nptel.ac.in/courses/102/105/102105087/
	18BT35	Cell Biology and Genetics	https://nptel.ac.in/courses/102/103/102103012/ https://nptel.ac.in/courses/102/108/102108086/ https://nptel.ac.in/courses/102/105/102105087/ https://nptel.ac.in/courses/102/106/102106025/ https://nptel.ac.in/courses/102/104/102104052/
	18BT36	Python Programming	https://nptel.ac.in/courses/106/106/106106182/ https://nptel.ac.in/courses/106/106/106106145/ https://onlinecourses.nptel.ac.in/noc21_cs67/preview
	IV	18BT41	Stoichiometry
18BT-42		Molecular Biology	https://nptel.ac.in/courses/102/106/102106035/ https://nptel.ac.in/courses/102/106/102106025/ https://nptel.ac.in/courses/102/104/102104052/

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	18BT-43	Immunotechnology	https://nptel.ac.in/courses/102/105/102105083/ https://nptel.ac.in/courses/102/103/102103038/
	18BT-44	Cell Culture Techniques	https://nptel.ac.in/courses/102/104/102104059/
	18BT-45	Biochemical Thermodynamics	https://nptel.ac.in/courses/102/106/102106082/
	18BT-46	Clinical Biochemistry	https://nptel.ac.in/courses/102/106/102106087/
V	18BT51	Bio-Business and Entrepreneurship	https://nptel.ac.in/courses/110/107/110107150/ https://nptel.ac.in/courses/127/106/127106136/
	18BT52	Chemical Reaction Engineering	https://nptel.ac.in/courses/102/106/102106083/ https://nptel.ac.in/courses/102/106/102106053/
	18BT53	Enzyme Technology & Biotransformation	https://nptel.ac.in/courses/102/106/102106053/ https://nptel.ac.in/courses/102/102/102102033/
	18BT54	Genomics & Proteomics	https://nptel.ac.in/courses/102/103/102103017/ https://nptel.ac.in/courses/102/101/102101072/ https://nptel.ac.in/courses/102/104/102104056/ https://nptel.ac.in/courses/102/101/102101049/ https://nptel.ac.in/courses/102/101/102101040/ https://nptel.ac.in/courses/102/101/102101007/ https://nptel.ac.in/courses/102/101/102101055/ https://nptel.ac.in/courses/102/101/102101076/ https://nptel.ac.in/courses/102/101/102101082/ https://nptel.ac.in/courses/102/101/102101050/
	18BT55	Bioanalytical Techniques	https://nptel.ac.in/courses/102/103/102103044/ https://nptel.ac.in/courses/102/107/102107028/
	15BT56	Genetic Engineering & Applications	https://nptel.ac.in/courses/102/103/102103074/ https://nptel.ac.in/courses/102/103/102103041/
	VI	18BT61	Process Control and Automation

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	18BT62	Bioprocess Design and CAED	https://nptel.ac.in/courses/102/106/102106083/
	18BT63	Bioinformatics	https://nptel.ac.in/courses/102/106/102106065/ https://nptel.ac.in/courses/102/106/102106070/ https://nptel.ac.in/courses/102/106/102106068/ https://nptel.ac.in/courses/102/108/102108077/
	18BT641	Food Process Engineering	https://nptel.ac.in/courses/126/105/126105011/ https://nptel.ac.in/courses/121/106/121106014/
	18EE653	Renewable Energy Sources	https://nptel.ac.in/courses/103/103/103103206/
VII	18BT71	Bioprocess Engineering	https://nptel.ac.in/courses/102/106/102106022/
	18BT72	Clinical & Pharmaceutical Biotechnology	https://nptel.ac.in/content/storage2/courses/102103045/download/mod1.pdf https://nptel.ac.in/courses/102/108/102108077/ https://onlinecourses.nptel.ac.in/noc21_lw04/preview https://onlinecourses.nptel.ac.in/noc21_ge14/preview
	17BT72	Plant BT	https://nptel.ac.in/courses/102/106/102106080/ https://nptel.ac.in/courses/102/103/102103016/
	18BT731	Process Equipment & Plant Design	https://nptel.ac.in/courses/103/105/103105210/ https://onlinecourses.nptel.ac.in/noc21_ch18/preview
	18BT743	Tissue Engineering	https://nptel.ac.in/courses/102/106/102106081/ https://nptel.ac.in/courses/102/106/102106036/
	18CV753	Environmental Protection and Management	https://nptel.ac.in/courses/120/108/120108004/
VIII	17BT81	Clinical and Pharmaceutical Biotechnology	https://nptel.ac.in/content/storage2/courses/102103045/download/mod1.pdf https://nptel.ac.in/courses/102/108/102108077/ https://onlinecourses.nptel.ac.in/noc21_lw04/preview

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			iew https://onlinecourses.nptel.ac.in/noc21_ge14/preview
	17BT82	Regulatory Affairs in Biotech Industry	https://nptel.ac.in/courses/127/106/127106136/
	17BT833	Environmental Biotechnology	https://nptel.ac.in/courses/102/105/102105088/
		EXPERIMENTAL BIOTECHNOLOGY	https://nptel.ac.in/courses/102/103/102103083/