

List of B.Tech. Courses Offered in India

Bachelor of Technology (B.Tech.) is an Undergraduate Engineering Degree which is awarded to the candidates after completing the 4 Years of study in a specific field.

There are many fields or specializations in which you can pursue the B.Tech. Course. So, here we have mentioned them all.

Explore the list below of all the B.Tech. specializations and choose the right one for you.

S.No.	Course Name	Course Duration	Specialization
1	B.Tech. (Aerospace Engineering)	4 Years	Aero Engineering Thermodynamics, Introduction to Aero Space Engineering, Satellites and Space System Design, Rockets and Missiles.
2	B.Tech. (Agricultural and Food Engineering)	3 Years	-
3	B.Tech. (Agricultural Engineering)	4 Years	Environment and Ecology, Engineering Thermodynamics, Material Science, Strength of Materials, Soil Mechanics, Hydrology.
4	B.Tech. (Agricultural Information Technology)	4 Years	-
5	B.Tech. (Apparel Production Management)	4 Years	-
6	B.Tech. (Applied Electronics and Instrumentation)	4 Years	Network Theory, Solid State devices, Basic Electronics Engineering & Information Technology, Signal Communication.
7	B.Tech. (Applied Mechanics)	4 Years	Electro-Techniques, Basic Thermo-fluids, Workshop Technology, Applied Thermodynamics, Industrial Engineering.

8	B.Tech. (Architectural Engineering)	4 Years	Material Science, Value Education, Principles of Environmental Science, Architectural Graphics.
9	B.Tech. (Automobile Engineering)	4 Years	Electronics and Instrumentation, Manufacturing Technology, Mechanics of Solids, Machines and Mechanisms.
10	B.Tech. (Automotive Design Engineering)	4 Years	Introduction to Transportation Systems, Components of Automotive Chassis, Kinematics & Dynamic Machine, Manufacturing Technology.
11	B.Tech. (Avionics Engineering)	4 Years	Engineering Materials, Engineering Graphics, Analogue Electronic Circuit, Signal and Systems, Digital Communication.
12	B.Tech. (Biochemical Engineering)	4 Years	Biomedical Instrumentation, Basic Medical Instrumentation, Biochemistry and Biophysics, Bio Transducers and Electrodes.
13	B.Tech. (Bioinformatics)	4 Years	Structural Chemistry, Bioinformatics Algorithms, Molecular Biology & Genetics, Immunology, Biophysical Chemistry.
14	B.Tech. (Biomedical Engineering)	4 Years	Human Anatomy & Physiology, Dynamics of Bio-fluids, Embedded systems in Medicine, Medical Informatics and expert systems, Biomedical Signal Processing.
15	B.Tech. (Biomedical Instrumentation)	4 Years	Medical Imaging, Physiologic Modelling, Prosthetic Devices, Physiologic Control, Artificial Organs.
16	B.Tech. (Bioprocess Technology)	4 Years	Molecular Biology, Microbiology, Chemical Reaction Engineering, Enzyme Engineering, Biochemical and Engineering Thermodynamics.

17	B.Tech. (Biotechnology and Biochemical Engineering)	4 Years	Microbiology, Industrial Microbiology & Enzyme Technology, Agriculture, Medicine, Cell & Molecular Biology.
18	B.Tech. (Biotechnology)	4 Years	Biomedical Instrumentation, Introduction to Medical Physics, Medical Imaging Techniques, Basic Pathology and Basic Microbiology, Virtual Instrumentation.
19	B.Tech. (Carpet and Textile Technology)	4 Years	Yarn Manufacture, Carpet Manufacture, Textile Testing, Fibre Science, Textile Mechanics.
20	B.Tech. (Ceramic Technology)	4 Years	Planning and developing processing systems, Planning and implementation of processing methodologies, Research and development of the ceramic materials.
21	B.Tech. (Ceramic and Cement Technology)	4 Years	-
22	B.Tech. (Chemical Engineering)	4 Years	Fertilizer Technology, Food Technology, Drugs and Pharmaceutical Technology, Polymer and Plastics Technology.
23	B.Tech. (Chemical Science and Technology)	4 Years	Plant Design, Engineering Thermodynamics, Process Analysis and Control, Separation Processes, Chemical Kinetics.
24	B.Tech. (Civil Engineering)	4 Years	Engineering Economics, Civil Engineering Materials and Building Construction, Soil Mechanics, Concrete Structure Design.
25	B.Tech. (Civil Infrastructure Engineering)	4 Years	Hydraulic Structures, Advanced Surveying and Remote Sensing, Construction Equipment, Tall Building Structures, Transportation Engineering.

26	B.Tech. (Cloud Computing & Virtualization Technology)	4 Years	-
27	B.Tech. (Computer and Information Science)	3 Years	Data Base Management System, Computer Organization, Software Engineering, Interactive Computer Graphics.
28	B.Tech. (Computer Engineering)	4 Years	C & Data Structures, Computers and Information Technology, Managerial Economics and Accountancy, System Programming.
29	B.Tech. (Computer Science and Engineering)	4 Years	Computer Graphics, Computer Networks, Artificial Intelligence, Software Engineering, Design and Analysis of Algorithms, Computer Organization.
30	B.Tech. (Dairy Technology)	4 Years	Dairy Process Engineering, Dairy Plant Design and Layout, Refrigeration & Air Conditioning, Food Engineering.
31	B.Tech. (Electrical and Electronics Engineering)	4 Years	Basic System Analysis, Thermal & Hydraulic Machines, Network Analysis and Synthesis, Control Systems, Power System Analysis.
32	B.Tech. (Electrical Engineering)	4 Years	Applied Thermodynamics, Circuit Theory, Digital Circuits, Analogue Circuits, Managerial Economics.
33	B.Tech. (Electronics and Communication Engineering)	4 Years	Electronics Engineering, Manufacturing Process, Electrical Technology, Engineering Mechanics, Signals & Systems.
34	B.Tech. (Electronics and Instrumentation Engineering)	4 Years	Robotics, Telecommunication, Biomedical, and Computer Control in Process applications, VLSI, Fibre Optics.

35	B.Tech. (Electronics and Media Technology)	4 Years	Electromagnetic Fields, Signals & Systems, Network Analysis, Digital Communication Systems, Microprocessor Engineering.
36	B.Tech. (Electronics and Nanotechnology)	4 Years	Bio-Nanotechnology, Advanced Electronics and Instrumentation, Nano-photonics, Nano-toxicology.
37	B.Tech. (Electronics and Telecom Engineering)	4 Years	Solid State Devices, Microprocessors, Analogue Integrated Circuits, Analogue and Digital Transmission & Reception of Data.
38	B.Tech. (Electronics Engineering)	4 Years	Network Analysis, Analogue Circuits & Systems, Electromagnetic Fields, Electrical Circuits & Systems.
39	B.Tech. (Energy Engineering)	4 Years	Digital Electronic Circuits, Energy Resources & Technology, Power Systems, Heat Transfer, Solar Energy Technology.
40	B.Tech. (Energy Technology)	3 Years	Thermodynamics, Energy Resources & Technology, Power Electronics & Drives, Solar Energy Technology, Energy Conversion Processes.
41	B.Tech. (Engineering Physics)	4 Years	Quantum Mechanics, Biophysics, Atomic & Molecular Spectroscopy, Computational Physics, Engineering Optics.
42	B.Tech. (Environmental Engineering)	4 Years	Instrumental Analysis, Mechanics of Solids, Water Engineering, Solid Waste Management, Environmental Science & Biochemistry.
43	B.Tech. (Fashion and Lifestyle Design) (FLD)	4 Years	-
44	B.Tech. (Fashion Technology)	4 Years	Basic Textiles, Fashion Model Drawing, Fabric Manufacturing, Basic

			Sewing, Dyeing & Printing, Fashion Marketing.
45	B.Tech. (Food Process Engineering)	4 Years	Production Technology of Field Crops, General Microbiology, Basic Horticulture, Principles of Biochemistry, Heat Power Engineering.
46	B.Tech. (Food Science)	4 Years	Basic Nutrition, Food Microbiology, Fruits and Vegetable Technology, Food Engineering.
47	B.Tech. (Food Technology)	4 Years	Dairy Plant Engineering, Biochemistry of Processing & Preservation, Food Fermentation Technology, Food Industry Waste Management.
48	B.Tech. (Footware Technology)	4 Years	-
49	B.Tech. (Genetic Engineering)	4 Years	Principles of Environmental Science, Cell Biology, Enzyme Technology, Immunology, Genetics and Cytogenetics.
50	B.Tech. (Geo Informatics Engineering)	4 Years	Photogrammetry, Surveying, Introduction to Environmental Engineering, Geo-Databases, GIS Programming.
51	B.Tech. (Geo Sciences Engineering)	4 Years	Planning & Surveying, Statistical Method in Geosciences, Sedimentology, Geo-Thermal Science, Soil Mechanics and Foundation Engineering.
52	B.Tech. (Hons.) (Electrical and Electronics Engineering)	4 Years	Electrical Measurements & Measuring Instruments, Microprocessors, Engineering & Managerial Economics, Data Communication Networks.

53	B.Tech. (Hons.) (Industrial and Production Engineering)	4 Years	Casting, Forming & Welding, Design of Machine Elements, Manufacturing Processes, Industrial Automation.
54	B.Tech. (Hons.) Mechanical Engineering	4 Years	Theory of Machines, Dynamics of Machinery, Fluid Mechanics, Fluid Machines, Advanced Solid Mechanics.
55	B.Tech. (Hons.) Agricultural Engineering	4 Years	Environment and Ecology, Engineering Thermodynamics, Material Science, Fluid Mechanics, Soil Mechanics.
56	B.Tech. (Hons.) Automobile Engineering	4 Years	Materials Technology, Theory of Automotive Engines, Fluid Power Control, Automotive Electrical Systems, Automotive Transmission.
57	B.Tech. (Hons.) Biotechnology	4 Years	Microprocessors and Microcontrollers, Biomedical Instrumentation, Medical Imaging Techniques, Basic Pathology and Basic Microbiology.
58	B.Tech. (Hons.) Chemical Engineering	4 Years	Bio-molecular Engineering, Ceramics, Corrosion Engineering, Earthquake Engineering, Industrial Gas.
59	B.Tech. (Hons.) Civil Engineering	4 Years	Soil Mechanics, Steel Structure Design, Irrigation Engg. and Hydrology, Foundation Engineering.
60	B.Tech. (Hons.) Computer Science and Engineering	4 Years	Logical & Functional Programming, Telecommunication Fundamentals, Information Theory and Coding, Computer Networks, Design & Analysis of Algorithms.
61	B.Tech. (Hons.) Electrical Communication Engineering	4 Years	-
62	B.Tech. (Hons.) Petroleum Engineering	4 Years	Petroleum Formation Evaluation, Improved Oil Recovery and Reservoir

			Simulation, Petroleum Exploration, Petroleum Refining Technology.
63	B.Tech. (Humanities and Management)	4 Years	-
64	B.Tech. (Industrial and Production Engineering)	4 Years	Metallurgy and Heat Treatment, Manufacturing Processes, Production Planning and Control, Casting, Forming & Welding, Industrial Automation.
65	B.Tech. (Industrial Biotechnology)	4 Years	Bioinformatics, Bioprocess Engineering, Bioethics, Immunology, Genetic Engineering.
66	B.Tech. (Industrial Engineering and Management)	4 Years	Financial Engineering, Manufacturing Engineering, Operations Research, Supply Chain, Ergonomics.
67	B.Tech. (Industrial Engineering)	4 Years	Management of Inventory Systems, Casting, Forming and Welding, Engineering Economy, Costing and Accounting.
68	B.Tech. (Industrial Microbiology)	4 Years	Elementary Biology, Biophysics, Mechanics & Transport Process, Molecular Biology, Enzymology & Enzyme Technology.
69	B.Tech. (Information and Communication Technology)	4 Years	-
70	B.Tech. (Information Science and Engineering)	4 Years	Networking, Operating Systems, Design and analysis of Algorithms, Database Management, File Structures.
71	B.Tech. (Information Technology)	4 Years	Computer Communication Network, Introduction to Web Technology, Management Information Systems, Applications of Microprocessor.

72	B.Tech. (Infrastructure Engineering)	4 Years	Computer Aided Engineering Graphics, Concrete Technology, Engineering Geology, Soil Mechanics, Water Resource Engineering.
73	B.Tech. (Instrumentation and Control Engineering)	4 Years	Linear Electronics, Control System Components, Applied Electronics, Industrial Electronics, Biomedical Instrumentation.
74	B.Tech. (Instrumentation Engineering)	4 Years	Basics of Industrial Sociology, Economics and Management, Linear Integrated Circuits, Control System Components, Fuzzy Logic Control.
75	B.Tech. (Leather Technology)	4 Years	Leather Goods and Garment Technology, Footwear Technology, Organisation and Management of Leather Manufacture, Tannery Waste Management.
76	B.Tech. (Mainframe Technology)	4 Years	Software Engineering and UML, Z/OS services, Advanced IDE, HTML Programming, Storage Technology Foundation.
77	B.Tech. (Manufacturing & Management)	4 Years	-
78	B.Tech. (Manufacturing Technology)	4 Years	Modern methods of manufacture, Metal Cutting and Machine Tools, Materials Handling and Automation, Engineering Metrology.
79	B.Tech. (Marine Engineering)	4 Years	Marine Boiler and Steam Engineering, Marine IC Engineering, Ship Construction, Naval Architecture, Power Plant Operation.
80	B.Tech. (Material Science Engineering)	4 Years	Industrial Economics, Phase Equilibrium in Materials, Fundamentals of Materials Processing, Industrial Management.

81	B.Tech. (Mathematics and Computing)	4 Years	Discrete Mathematics, Digital Design, Data Structures and Algorithms, Monte Carlo Simulation, Data Communication.
82	B.Tech. (Mechanical Engineering)	4 Years	Theory of Machines, Machine Drawing and Computer Graphics, Dynamics of Machinery, Electrical Machines and Control.
83	B.Tech. (Mechatronics Engineering)	4 Years	Materials Technology, Mathematics for Mechatronic Systems, Instrumentation and Control Systems, Manufacturing Technology.
84	B.Tech. (Medical Electronics)	4 Years	Logic Design, Electronic Instrumentation, Microcontrollers, Signals & Systems, Biomedical Instrumentation, Biological Control Systems.
85	B.Tech. (Metallurgical Engineering)	4 Years	Metallurgical Thermodynamics, Mineral Benification, Transport Phenomena, Elements of Physical Metallurgy, Machine Elements and Machining.
86	B.Tech. (Metallurgy)	4 Years	-
87	B.Tech. (Mineral Engineering)	4 Years	Environmental Engineering & Safety, Optimization Engineering, Mining Methods & Unit Operation, Material Handling Systems.
88	B.Tech. (Mining Engineering)	4 Years	Environmental Aspects of Mining, Industrial Management, Design of Engineering Structures, Rock Mechanics.
89	B.Tech. (Missile Technology)	4 Years	-
90	B.Tech. (Nanotechnology)	4 Years	Elements of Nanoscience and Nanotechnology, Nanochemistry,

			Microscopy to Nanoscopy, Micro and Nanofabrication.
91	B.Tech. (Naval Architecture and Ocean Engineering)	4 Years	-
92	B.Tech. (Nuclear Power Technology)	4 Years	-
93	B.Tech. (Nuclear Science & Engineering)	4 Years	Molecular and Cell Biology, Computer in Reactor Analysis, Reactor Theory and Kinetics.
94	B.Tech. (Oil & Gas Informatics)	4 Years	Storage Technology Foundation, Understanding Petro-chemicals, Production Engineering.
95	B.Tech. (Optics and Optoelectronics)	3 Years	-
96	B.Tech. (Packaging Technology)	4 Years	-
97	B.Tech. (Paint Technology)	4 Years	-
98	B.Tech. (Petrochemical Engineering)	4 Years	Petroleum Geology and Exploration, Petrochemical Process, Modelling and Simulation, Advanced Petroleum Refining.
99	B.Tech. (Pharmaceutical Technology)	4 Years	Pharmaceutical process calculation, Pharmaceutical Engineering Laws, Pharmaceutical Chemistry, Physiology & Pharmacology, Chemical & Biothermodynamics.
100	B.Tech. (Physical Sciences)	4 Years	Remote Sensing and Applications, Classical Mechanics, Earth System Science, Atmospheric and Ocean Sciences.

101	B.Tech. (Plastic Technology)	4 Years	Basics of Polymers, Polymer Physics, Latex Technology, Plastics Processing and Machinery, Technology of Tires and Tubes.
102	B.Tech. (Polymer Engineering)	4 Years	Plastics Product Design, PVC Piping, Latex Product Manufacturing, Manufacturing of Transmission Systems.
103	B.Tech. (Polymer Technology)	4 Years	Polymer Chemistry, Polymer Structure and Property Relationship, Physical Chemistry of Polymers, Polymer Compounding Technology.
104	B.Tech. (Power Engineering)	3 Years	Thermodynamics, Materials Science and Technology, Advance Power Generation Technology, Power System Operation.
105	B.Tech. (Power System Engineering)	4 Years	Power Generation Engineering, Power Plant Electrical Machines & Systems, Power Transmission, Power Electronics & Electrical Drives.
106	B.Tech. (Printing Technology)	4 Years	Flexography, Graphic Design, Electronic Composition, Gravure Technology, Printing Management.
107	B.Tech. (Production Engineering)	4 Years	Metallurgy & Material Science, Electrical Technology, Metrology and Instrumentation, Dynamics of Machinery.
108	B.Tech. (Robotics Engineering)	4 Years	Rigid Body Velocity, Jacobian, Mechanical Designs, Forward Kinematics, Force Control and Haptics.
109	B.Tech. (Rubber Technology)	4 Years	Polymer Science and Technology, Plastics Technology, Specialty Polymers, Synthetic Rubbers.

110	B.Tech. (Safety and Fire Engineering)	4 Years	Disaster Mitigation, Fire Communication Systems, Hydraulics, Town Planning.
111	B.Tech. (Silk Technology)	4 Years	Silk Reeling Technology, Silk Fabric Manufacture, Yarn Manufacture, Knitting Technology.
112	B.Tech. (Software Engineering)	4 Years	Computer Networks, Software Testing, Software Design, Software Architecture.
113	B.Tech. (Space Technology)	4 Years	Introduction to Space Vehicle, Atomic, Molecular and Nuclear Physics, Environmental Science and Engineering.
114	B.Tech. (Telecommunication Engineering)	4 Years	Fuzzy logic and Neural Networks, Digital Systems, Digital Communication, VHDL and VLSI.
115	B.Tech. (Textile Chemistry)	4 Years	Yarn Formation, Fabric Formation, Information Technology in Textile, Design and Structure of Fabric.
116	B.Tech. (Textile Engineering)	4 Years	Fabric Manufacture, Textile Chemical Processing, Yarn Manufacture.
117	B.Tech. (Urban & Regional Planning)	4 Years	-
118	B.Tech. (Water Resources Engineering)	4 Years	Water Control and Measurement, Water Resources Engineering, Surface drainage Systems, Groundwater Technology.