

Annexure – IV

- (i) Following is the list of B.Tech. courses wherein the main papers (Hons.) and the specified Basic/ Allied Engineering Science papers, which can be offered to students have been compiled.

1. COMPUTER SCIENCE (B.Tech.)

Course	Semester	Main Subject Paper	Basic/Allied Engineering Science#
B.Sc. (H) Computer Science	V	Probability Theory and Statistical Computing	Mathematical Physics- II
		Theory of Computation	
		Computer Graphics	
	VI	Microprocessor	Strategic Human Resource Management
		Systems Programming and Compiler Design	
		Network Programming	
	VII	Artificial Intelligence	Principles of Communication Engineering
		Information Security	
		Project	
	VIII	Web Technology	Environmental Engineering
		Mobile Application on Android Platform	
		Project	

2. ELECTRONICS (B.Tech.)

Course	Semester	Main Subject Paper	Basic/Allied Engineering Science#
B.Tech. Electronics	V	Microprocessors	Numerical Methods
		Electromagnetic Waves & Transmission Lines	
		Communication Electronics	
	VI	Embedded Systems	Digital Signal Processing
		Control Systems	
		Engineering Mathematics-II	
	VII	Power Electronics	Computer Networks
		Photonics	

		Project	
	VIII	Semiconductor Fabrication & Characterization	Electrical Technology
		Modern Communication System	
		Project and Dissertation	

3. FOOD TECHNOLOGY (B.Tech.)

Course	Semester	Main Subject Paper	Basic/Allied Engineering Science#
B.Tech. Food Technology	V	Differential Equations	Thermal Physics
		Advanced Food Chemistry	
		Food Microbiology	
	VI	Food Engineering	Probability and Statistical Methods
		Food Safety and Regulations	
		Analytical Instrumentation	
	VII	Food Quality Management	Food Processing Equipment and Plant Design
		Food Packaging Technology	
		Industrial/Research Project	
	VIII	Food Plant Sanitation and Waste Management	Food Biotechnology
		Nutraceuticals and Functional Foods	
		Industrial/Research Project	

4. INSTRUMENTATION (B.Tech.)

Course	Semester	Main Subject Paper	Basic/Allied Engineering Science#
B.Tech. Instrumentation	V	Microprocessor	Signals and Systems
		Analytical Instrumentation- I	
		Biomedical Instrumentation- I	
	VI	Analytical Instrumentation- II	Programming in C and Data Structures
		Control Systems	
		Biomedical Instrumentation- II	
	VII	8051 and Advanced Microcontrollers	Numerical Methods

		Virtual Instrumentation	
		Project	
	VIII	Artificial Intelligence Control Techniques	Communication
		Process Control Dynamics	
		Project and Dissertation	

5. POLYMER SCIENCE (B.Tech.)

Course	Semester	Main Subject Paper	Basic/Allied Engineering Science#
B.Tech. Polymer Science	V	Polymer Degradation	Chemical Bonding
		Fiber Science and Rubber Technology	
		Polymers in Packaging Technology	
	VI	Tyre Technology	Engineering Graphics and Drawing
		Recycling & Waste Management	
		Conducting Polymers	
	VII	Fiber Manufacturing Technology	Basic Electronics
		Speciality Polymers	
		Research Methodology and Project Work	
	VIII	Applied Polymer Science	Computer Programming and Fundamentals
		Polymeric Nanomaterials	
		Research	

*Approved by the Academic Council on 13.7.2015 and the Executive Council on 20.7.2015 of the University of Delhi.