

**Semester-wise Pattern for BPD students admitted to  
B.E. (Hons.) - Electronics and Instrumentation Program**

Yr.	First Semester	Units	Second Semester	Units
I	BIO C111 General Biology	3	ES C112 Thermodynamics	3
	TA C111 Engineering Graphics <sup>@</sup>	4	TA C112 Workshop Practice <sup>@</sup>	4
	MATH C191 Mathematics I	3	MATH C192 Mathematics II	3
	PHY C131 Physics I	3	PHY C132 Physics II	3
	CHEM C141 Chemistry I	3	CHEM C142 Chemistry II	3
	AAOC C111 Probability and Statistics	3	TA C162 Computer Programming I <sup>#</sup>	3
	ENGL C123 English Language Skills	3		
		22		19
II	MGTS C211 Principles of Management	3	ES C242 Structure and Properties of Materials	3
	TA C211 Measurement Techniques I <sup>@</sup>	2	TA C222 Measurement Techniques II <sup>@</sup>	4
	ES C241 Electrical Sciences I	3	ES C272 Electrical Sciences II	3
	MATH C241 Mathematics III	3	ES C263 Microprocessors Programming and Interfacing <sup>@</sup>	4
	TA C252 Computer Programming II <sup>#</sup>	3	ECE C272 Circuits and Signals	3
	ES C221 Mechanics of Solids	3	TA C312 Technical Report Writing	3
		17		20
Summer		BITS C221 Practice School I (for PS option only)		5
III	AAOC C222 Optimisation	3	AAOC C312 Operations Research	3
	AAOC C321 Control Systems	3	AAOC C341 Numerical Analysis	3
	INSTR C313 Microelectronic Circuits	3	INSTR C312 Industrial Instrumentation and Control	3
	INSTR C371 Electromechanical Energy Conversion <sup>@</sup>	4	INSTR C355 Electronic Instruments and Instrumentation Technology <sup>@</sup>	4
	INSTR C381 Transducers and Measurement Systems	3	INSTR C364 Analog Electronics <sup>@</sup>	4
	INSTR C391 Digital Electronics and Computer Organization <sup>@</sup>	4	INSTR C461 Power Electronics	3
		20		20
IV	Electives* 6	18	BITS C412 Practice School II OR BITS C422T Thesis - BITS C442T Seminar (Pair of Courses)	20 OR 15-1
		18		20/16

Note: This is a currently operative pattern as approved by the Senate-appointed committee, subject to change if the situation warrants.

\* The units mentioned for electives are minimum units and in actual cases they may be more, depending upon the nature of the courses.

# Course taught with exposure to practical.

@ A lab-based course.

\* \* \*