



# PUNJAB BOARD OF TECHNICAL EDUCATION

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To

All Principals,  
Government Colleges of Technology/  
All affiliated Polytechnic Institutes with P.B.T.E, Lahore.

Subject: **Bifurcation / Division of the Marks of ELTR-114 Electrical Circuits, ELTR-225 Analog Electronics, ELTR-264 Digital Electronics & ELTR-314 Microprocessor and Applications Subjects of Revised DAE Electronics**

The bifurcation / division of the following subjects of Revised DAE Electronics have been made and will be available at PBTE website i.e [www.pbte.edu.pk](http://www.pbte.edu.pk) (Course Section) for the guidance of teachers and students for the DAE Examination 2012 and onward.

S #	Subjects Name	Paper "A" (Topics) Marks = 75	Paper "B" (Topics) Marks = 75
1.	ELTR-114 Electrical Circuits	1- Basic Principle of Electricity 2- DC Fundamentals 3- Network Theorems 4- Magnetism and Electromagnetism 5- Electrostatics	6- AC Fundamentals 7- Transformer 8- Resonance 9- Filter & Coupling Circuits
2.	ELTR-225 Analog Electronics	1- Introduction To Amplifier 2- Coupling of Amplifier 3- Audio Power Amplifiers 4- Feedback Amplifiers 5- R.F. Amplifier	6- I.F. Amplifier 7- Oscillators 8- Operational Amplifier 9- Monostable And Stable Multivibrator 10- Ramp, Pulse and Function Generators 11- Comparator And Schmitt Trigger
3.	ELTR-264 Digital Electronics	1- Number System. (review) 2- Logic Gates 3- Boolean Algebra 4- Binary Arithmetic Circuits 5- Combinational Circuit Design 6- Sequential Circuits	7- Shift Registers and Counters 8- Families and Specifications 9- Interfacing With Analog World 10- Memory 11- Introduction To Digital Troubleshooting
4.	ELTR-314 Microprocessor and Applications	1- Data Presentation with in a Computer System 2- Application of Logic Gates 3- Basic Microprocessor Architecture 4- 8 and 16 Bit Microprocessor Architecture 5- Memory and Basic I/O Interface	6- Assembly Language 7- Interrupts 8- Direct Memory Access 9- Bus Interface 10- The Pentium Microprocessors 11- Computer Peripherals 12- Printer 13- The Microcontroller

It is requested that all concerned teachers and students may be informed accordingly.

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Secretary

CC To.

- 1- PS to Chairman, PBTE, Lahore.
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