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 (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.
2- PA to Secretary, PBTE, Lahore.
3- PA to Controller of Examinations. PBTE, Lahore.
4- The General Manager (Academics), PBTE, Lahore.
5- The Deputy Controller of Examinations (Conduct), PBTE, Lahore.
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