CPD Activities Calendar for Year 2017

PEB Name:	**Abasyn University Peshawar**
PEB Reg. #:	**PEB-K-ABSUPE-0113**
Name of PEB Coordinator:	**Prof. Zahid Mehmood (Phd)**

Sr. #	CPD Title	CPD Category - Type	Location	Dates	Collaboration	Resource Person	CPD Credit Points	Fee (Rs)
1	Practicing Outcome Based Education in Engineering Institutions across Pakistan.	Lecture	Abasyn University Peshawar	4th and 5thApril 2017	IQRA National University	Dr. Shaukat Ali (AUP) And Dr. Khalid Mehmood (INU)	2.0	2,000
2	A guided tour of mathematical modeling and simulation of physical systems	Lecture	Abasyn University Peshawar	19th July 2017	Self	Prof. Dr. M. NomanJafri	1.0	2,000
3	Multi-Layer PCB Schematic and Layout designing using Modular Approach	Lecture	Abasyn University Peshawar	20thand 21st September 2017	NUCES, Peshawar	Dr. Haider Ali (AUP) And Dr. Anwar Ali (NUCES, Peshawar)	1.5	1500
4	Asphalt and Cement Concrete mixtures modified with waste materials	Lecture/ Exhibition	Abasyn University Peshawar	18th October 2017	UET, Peshawar	Dr. Muhammad Alam and Dr. SajjadWali khan	1.0	2,000

Contents of CPD Activities as per Calendar-2017

	PAKISTAN ENGINEERING COUNCIL	
Activity No.1 (as per CPD Calendar-2017)		
CPD Title:	**Practicing Outcome Based Education in Engineering Institutions across Pakistan.**	
Objectives:	The focus on outcomes creates a clear expectation of what needs to be accomplished by the end of the course. Students will understand what is expected of them and teachers will know what they need to teach during the course. Student involvement in the classroom is a key part of OBE. Students are expected to do their own learning, so that they gain a full understanding of the material. Increased student involvement allows students to feel responsible for their own learning, and they should learn more through this individual learning	
Main Contents:	• Introduction to Outcome Based Education • Program objectives and Outcomes • Benefits and Strategy of OBE • Outcome – Related Course Learning Objectives • Student – Centered Learning • Assessment and Evaluation	
Target Participants:	*CECOS University, UET Peshawar, UET Mardan, UET Bannu, UET Kohat, UET Jalozai, Sarhad University, IQRA University, City University, FAST University, Qurtuba University, Preston University*	
Duration:	**Two days**	

Activity No.2 (as per CPD Calendar-2017)	
CPD Title:	**A guided tour of mathematical modeling and simulation of physical systems**
Objectives:	The activity targets the mathematical modeling of physical system and simulation technique involved in modern day fast digital computer along with peripherals as well as fifth generation computer languages. At the end of the activity, the audiences will be able to develop a good understanding of system analysis, simulators, system evaluators and discrete system simulations.
Main Contents:	• Constructing appropriate models for various problem situations. • Preserving investment in modeling a system, independently of the tools • Reducing effort in developing and maintaining simulators • To test the effect of changes in a system • Developing the ability of course attendees to choose the most applicable numerical methods to obtain solutions that balance the trade-off between simulation speed and accuracy. • Developing a detailed understanding of the different methods of model verification and validations and be able to synthesize a framework for model correlation within the context of the simulation aims and objectives.
Target Participants:	*CECOS University, UET Peshawar, UET Mardan, UET Bannu, UET Kohat, UET Jalozai, Sarhad University, IQRA University, City University, FAST University, Qurtuba University, Preston University*
Duration:	**One day**

Activity No.3 (as per CPD Calendar-2017)	
CPD Title:	**Multi-Layer PCB Schematic and Layout designing using Modular Approach**
Objectives:	This activity aim is to introduce and acquaint the engineers with the fundamentals of professional PCB development with special emphasis with muli-layered modular design approach.
Main Contents:	Introduction, Conventional PCB Design, Modular PCB Design Approach, Introduction to Multi Layer PCB, Developing and using components Library. Defining Design constraints as per PCB manufacturer, routing of Power and RF Traces.Defining Through/burried vias and multi-layer signals routing, Generation of output Gerber files.
Target Participants:	*CECOS University, UET Peshawar, UET Mardan, UET Bannu, UET Kohat, UET Jalozai, Sarhad University, IQRA University, City University, FAST University, Qurtuba University, Preston University*
Duration:	**Two days**

Activity No.4 (as per CPD Calendar-2017)	
CPD Title:	**Asphalt and Cement Concrete mixtures modified with waste materials**
Objectives:	The activity is focused on the potential use of waste materials in asphalt and Portland cement concrete. At the end of the activity, the audiences will be able to develop a good understanding of the recycling of waste materials and their use in concrete mixtures .
Main Contents:	• Rubberized mixtures • Use of marble dust in asphalt concrete • Bagasse Ash in as a filler substitute in asphalt concrete. • Experimental investigation of the effect of locally available synthetic fibers (from polythene bags) on the mechanical properties of concrete.
Target Participants:	*CECOS University, UET Peshawar, UET Mardan, UET Bannu, UET Kohat, UET Jalozai, Sarhad University, IQRA University, City University, FAST University, Qurtuba University, Preston University*
Duration:	**One day**