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Reactor Physics for SMRs and Next Generation Reactor Design

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About PIEAS
PIEAS was founded in 1967 as Reactor School in response to increasing manpower demand of PAEC. The institute gained university status in 2000 and its name was changed to "Pakistan Institute of Engineering and Applied Sciences (PIEAS)". The university has been ranked top institution for engineering studies in Pakistan by the Higher Education Commission (HEC), in the years 2006, 2010 and 2013. PIEAS has also been ranked as No.1 engineering university of Pakistan in the QS Asian Rankings 2014 and 2015.

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Faculty of Engineering
- Department of Nuclear Engineering
- Department of Chemical Engineering
- Department of Electrical Engineering
- Department of Mechanical Engineering
- Department of Metallurgy & Material Engineering

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- Department of Physics and Applied Mathematics
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Academics Programs
- PhD in Engineering and Applied Sciences disciplines

MS Programs
- Nuclear Engineering
- Radiation Physics
- System Engineering
- Material Engineering
- Process Engineering
- Mechanical Engineering
- Nuclear Medicine
- Radiation and Medical Oncology
- Medical Physics
- Physics
- Mineral Resource Engineering
- Laser, Plasma and Computational Physics
- Electrical Engineering (Power)

BS Programs
- Electrical Engineering
- Mechanical Engineering
- Computer Science

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COURSE TOPICS

- PWR Design Basics
- Nuclear Data Generation and Resonance Calculations
- Transport Theory Code Development Aspects
- Reactor Physics of SMRs
- Case Study of Advanced SMR Designs
- Reactor Physics Advances in Gen-IV Reactors
- Recent Progress in FBR and HTGR in China
- Latest Trends in Nuclear Fuel

Resource Person

Dr. Liangzhi Cao, Professor, School of Nuclear Science and Technology, Xi'an Jiaotong University (XJTU) Xi'an Shaanxi China. He received his PhD from Department of Nuclear Engineering Xi'an Jiaotong University, China. He has done Post-doc from KAIST, Korea as well as from University of Tokyo, Japan. He has experience as visiting research scientist at University of Michigan USA and RIKEN Japan. Dr. Cao is also Editorial board member of several well reputed journals in the field of Nuclear Engineering. His research interests are Nuclear reactor design & analysis and development of computational tools (transport theory based) in the field of reactor design and analysis. Dr. Cao has published more than 50 research articles in reputed nuclear engineering journals to accompany 15+ articles in peer reviewed conferences. Dr. Cao is also the winner of China National Funds for Distinguished young scientists by Nature Science Foundation of China (NSFC) 2015, New Century excellent talents in university 2011 by ministry of education china and Shaanxi youth scientific new star 2012 by Shaanxi province government.

A Course on Reactor Physics for SMRs and Next Generation Reactor Design

17-19 October, 2016
VENUE: PIEAS, NIORE, ISLAMABAD

Registration/Nomination Form:

Name of the applicant: __________________________
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Please send this completed Form (also available at www.pieas.edu.pk) to Dr. Khurram Saleem Chaudri, SS, Department of Nuclear Engineering, PIEAS, (Khurram.saleem@gmail.com), Tel: 051-9248710, Fax: 051-9248600, NIORE, Islamabad, alongwith the demand draft in favour of Head LAO, PIEAS. (Photocopy of this Form is also valid. Please note that all entries must be filled)