



***21st Hyderabad
Annual Radiologic
Physics Course***

Venue :
Through Digital Platform

Date :
7th & 14th August 2022



Organized by:
Indian Radiological & Imaging Association
Telangana State Chapter

INTRODUCTION TO HARP

Health and Bio-engineering combined has brought about a see-saw change in the field of Medicine in the form of new techniques & technologies especially in RADIO-DIAGNOSIS. Hence the importance of the HARP, which is basically aimed to provide the platform for better understanding of the functional aspects and the principles involved in each modality including the recent advances.

WHO SHOULD ATTEND HARP COURSE?

All Radiology Post graduate students doing MD, DMRD or DNB should attend this course at least once during their training preferably in first year. All the MBBS graduates who are committed to Radiology and aspire to be Radiologist by profession should attend. Students preparing for FRCR, EDiR, MICR will be benefitted.

Highlights of HARP Course:

- ✓ Radiologic Physics is covered from very basic to most advanced technology i.e. first lecture is on “Basic Concepts & Electro Magnetic Radiations” and last lecture is on “Molecular Imaging and other evolving technologies”
- ✓ Majority of the speakers are experienced practicing clinical radiologists and good teachers who will impart very practical and relevant knowledge of physics.
- ✓ In order to make lectures interactive and interesting Quiz questions and MCQ's are incorporated in all the presentations.
- ✓ Special effort is made to cover the examination questions of last 10 years in all the lectures.
- ✓ Radiologic Physics Quiz will be conducted.

Dr. V.N. Goud
President, IRIA TS Chapter

Dr. P. Krishna Mohan
General Secretary, IRIA TS Chapter

Course Coordinators
Dr. Jwala Srikala, Dr. J. Shirisha, Dr. Vishnuvardhan R.

MESSAGE

It gives us a great pleasure to invite you all to the online HARP Conference. Hope everyone is safe during this pandemic.

“Back to Basics” is the rule of the day as many of our young postgraduates are fascinated by newer modalities forgetting the fundamentals. Hence, this course fills up the gap in knowledge between basics and advanced imaging modalities. In this process physics plays a major role with different modalities. The understanding of physics is of paramount importance in the diagnosis and management of the diseases.

We have conducted this course 20 times with continuing improvement in the standards and the way it is conducted. All these improvements were possible because of constructive feedback given by the students. We have been receiving very encouraging response and repeated requests to conduct it every year. Therefore IRIA Telangana State Chapter decided to conduct the Physics course annually and call it Hyderabad Annual Radiologic Physics (HARP) Course.

If you want to achieve maximum benefits from this course then we request you to read Physics at least once before attending the course. We know it will be boring and you may not understand lot of things, but doesn't matter, your absorption of physics and subsequent interaction with speakers will be better and more meaningful.

All the best.

Dr. V.N. Goud

President, IRIA TS Chapter and
Organising Chairman

Dr. P. Krishna Mohan

General Secretary, IRIA TS Chapter and
Organising Secretary

Dr. Jwala Srikala, Dr. J. Shirisha,

Dr. Vishnuvardhan R.

Course Coordinators

PROGRAMME

Day 1 -7th August 2022

- 09:00 - 9:30 am Basics of Electromagnetic Radiation
- Dr. Jwala Srikala .M
- 09:30 - 10:00 am Production of X-Rays and X-Ray Tube
- Dr. Shruti Kalyan
- 10:00 - 10:30 am X-Ray Interaction and Attenuation
Collimators and Filters
- Dr. Ankit Balani
- 10:30 - 10:45 am Inauguration
- 10:45 - 11:15 am Radiobiology
- Dr. Sapna Marda
- 11:15 - 11:45 am Radiation Protection
- Dr. Rakhee Kumari Parchuri
- 11:45 - 12:15 pm Image Quality
- Mr. Panneerselvam
- 12:15 - 12:45 pm CR and DR
- Dr. Ramakrishna Rao Baru
- 12:45 - 1:15 pm Fluoroscopy
- Dr. Srinadh Bopanna
- 1:15 - 1:45 pm LUNCH BREAK
- 1:45 - 2:15 pm CT basics
- Dr. Aruna Karnawat
- 2:15 - 2:45 pm Spiral and MD CT
- Dr. Gayatri S
- 2:45 - 3:15 pm 3D and 4D CT and Postprocessing
- Dr. Vishnuvardhan R
- 3:15 - 3:45 pm Mammography
- Dr. Jwala Srikala
- 3:45 - 4:15 pm PACS
- Dr. Anitha Mandava
- 4:15 - 4:45 pm QUIZ
- Dr. Abhishek Arora
- 4:45 - 5:15 pm Planning and Quality Control in Radiology
- Mr. Panneerselvam
- 5:15 - 6:00 pm Scientific Exhibition and Demonstration
- Mr. Panneerselvam

PROGRAMME

Date 2 - 14th August 2022

- 8:30 - 9:00 am MRI Basics and Hardware
- Mr. Panneerselvam
- 9:00 - 9:35 am Spin Echo Sequences
- Dr. Shivakanth
- 9:35 - 10:10 am GRE and Steady State Sequences
- Dr. Gayatri S
- 10:10 - 10:25 am Factors Affecting Image Quality
- Dr. Shivakanth
- 10:25 - 11:00 am DWI/DTI and Spectroscopy
- Dr. Shivakanth
- 11:00 - 11:35 am Perfusion and FMRI
- Dr. Gayatri S
- 11:35 - 11:55 am MRA and MRV
- Dr. Shivakanth
- 11:55 - 12:40 pm Fat Suppression/saturation Techniques,
liver Imaging, Fat and Iron Quantification
and MR Elastography
- Dr. Gayatri S
- 12:40 - 1:00 pm MR Artefacts
- Dr. Shivakanth
- 1:00 - 1:30 pm MR Safety
- Mr. Panneerselvam
- 1:30 - 2:00 pm LUNCH BREAK
- 2:00 - 2:30 pm Ultrasound Basics
- Dr. Ruju Doshi
- 2:30 - 3:00 pm Doppler Basics
- Dr. Aruna karnawat
- 3:00 - 3:30 pm Ultrasound Advances
- Dr. Madhavi Nori
- 3:30 - 4:00 pm Elastography
- Dr. Rashmi Sudheer
- 4:00 - 4:20 pm Nuclear Medicine Basics
- Dr. Anuj Jain
- 4:20 - 4:40 pm SPECT and PET CT
- Dr. Anuj Jain
- 4:40 - 5:00 pm PET MRI
- Dr. Hrushikesh Aurangabadkar
- 5:00 - 5:30 pm Molecular Imaging
- Dr. Madhur Kr. Srivastava
- 5:30 - 6:00 pm Artificial Intelligence
- Dr. Srinivas Raju
- 6:00 - 6:30 pm Quiz Answers

REGISTRATION FORM

Name:

IRIA Membership No.:

Designation:

Institution:

Address:

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E-mail:

Contact No.:

REGISTRATION FEE FOR 2 Days (7th & 14th August 2022)

MEMBERS

Before 5th August Rs. 600/-

NON-MEMBERS

Before 5th August Rs. 800/-

Account Name: Telangana State Chapter IRIA
Account Number: 6243807479
IFSC Code: IDIB000B090
Name of the Bank: Indian Bank
Branch: Banjara Hills

Payments for Registration can be done through Gpay /
PhonePe / Paytm.

Name: Telangana State Chapter IRIA



Note: The payment through bank transfer should be followed up with an e-mail confirmation of the Bank transfer with an attachment of scanned copy of counter foil to iriatschapter@gmail.com.

Pay Directly to: indianradiological@indianbk

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Dr. Vivek Vardhan Reddy Keesara

Student representatives

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Dr. R Meghana Shiny

Trade Representative

Mr. K Ravinder Reddy

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- 3 Dr. Ankit Balani
- 4 Dr. Anuj Jain
- 5 Dr. Aruna Karnawat
- 6 Dr. Gayatri S
- 7 Dr. Hrushikesh Aurangabadkar
- 8 Dr. Jwala Srikala
- 9 Dr. Kavita N
- 10 Dr. Madhavi Nori
- 11 Mr. Panneerselvam
- 12 Dr. Rakhee Kumar Parchuri
- 13 Dr. Ramakrishna Rao Baru
- 14 Dr. Rashmi Sudheer
- 15 Dr. Ruju Doshi
- 16 Dr. Sapna Marda
- 17 Dr. Shivakanth
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- 19 Dr. Srinadh Boppana
- 20 Dr. Srinivas Raju
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