



***18th Hyderabad
Annual Radiologic
Physics Course***

Venue :

**KIMS HOSPITAL AUDITORIUM
Minister Road, Begumpet,
Secunderabad - 500 003. TS**

Date :

19th - 21st July 2019



Organized by:

**Indian Radiological & Imaging Association
Telangana State Chapter**

TS Medical Council 6 Credit Hours

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 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”. Artificial Intelligence in the new advanced topic which is included in this years course.
- ✓ 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.
- ✓ Detail write up of all the lectures will be given to the participants on CD.
- ✓ A unique scientific exhibition is organized wherein all the Radiologic gadgets, devices, instruments such as grid, filter, dark room accessories, various tubes, transformers etc, will be shown and explained to the students, who will find it very beneficial in their practical interrogation.
- ✓ *Radiologic Physics Quiz topper will receive Dr. K.P. Reddy Gold Medal. Second and Third Winners will get monetary incentives.*

MESSAGE

“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 17 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. It is conducted over third weekend of July every year.

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.

Prof. T. Mandapal

President, IRIA TS Chapter
& Organising Chairman

Dr. Sikandar

General Secretary, IRIA TS Chapter
& Organising Secretary

Dr. Gayatri S

Dr. Aruna Karnawat

Dr. Harsha Vardhana KR

Course Coordinators

PROGRAMME

Day 1 - 19th July 2019

- 9:00 - 9:30 Basic concepts of Electro-magnetic Radiation
- Dr. Jwala Srikala
- 9:30 - 10:00 Production of x-rays, tubes
- Dr. Shruthi Kalyan
- 10:00 - 10:30 INAUGURATION
- 10:30 - 10:45 HIGH TEA
- 10:45 - 11:30 X-ray interaction and attenuation, collimators, filters
- Dr. Ankit Balani
- 11:30 - 12:00 PACS
- Dr. Anitha Mandava
- 12:00 - 12:45 Radiation protection
- Dr. Rakhee Kumar Paruchuri
- 12:45 - 1:30 Factors affecting radiographic image quality
- Mr. Paneerselvam
- 1:30 - 2:00 Lunch
- 2:00 - 2:45 Planning and quality control in Radiology
- Dr. Anitha Mandava
- 2:45 - 3:15 Radio biology
- Dr. Sapna Marda
- 3:15 - 3:45 Fluoroscopy and DSA
- Dr. Srinadh Boppana
- 3:45 - 4:30 Mammography and Tomosynthesis
- Dr. Jwala Srikala
- 4:30 - 4:45 Tea
- 4:45 - 6:30 Scientific Exhibition
- Mr. Ram CK; Dr. Harshavardhan KR;
Dr. Vishnuvardhan R; Mr. Paneerselvam;
Mr. Shujat Ali; Mr. Janardhan; Mr. Gangadhar

Day 2 - 20th July 2019

- 8:30 - 11:00 **Session 1 MRI**
Basics + Hardware; Spin echo + Factors affecting image quality; Gradient echo and Steady state
- Mr. Paneerselvam; Dr. Gayatri S; Dr. Shivakanth
- 11:00 - 11:15 Tea
- 11:15 - 1:15 **Session 2 MRI**
DWI / DTI; MR Spectroscopy;
MRA, MRV; MR Perfusion, Functional MRI;
MR Artifacts; HIFU – MRI Guided
- Dr. Gayatri
- Dr. Shivakanth; Dr Ramakrishnan Narayanan
- 1:15 - 1:45 Lunch

- 1:45 - 2:45 **Session 3 MRI**
MR Safety; MR Fat Suppression / Saturation techniques; Liver imaging – iron and fat quantification, MR Elastography
- Mr. Paneerselvam; Dr. Gayatri S;
Dr. Vijaya Bhaskar Nori
- 2:45 - 3:15 **Quiz**
- Dr. Abhishek Arora
- 3:15 - 3:30 **Tea**
- 3:30 - 4:00 **Nuclear medicine basics**
- Dr. Kumaresan
- 4:00 - 4:25 **SPECT, PET-CT**
- Dr Anuj Jain
- 4:25 - 04:45 **PET-MRI**
- Dr Hrushikesh Aurangabadkar
- 4:45 - 5:15 **Molecular imaging**
- Dr Kavitha N
- 5:15 - 6:30 **Scientific Exhibition**
- Mr. Ram CK; Dr. Harshavardhan KR;
Dr. Vishnuvardhan R; Mr. Paneerselvam;
Mr. Shujat Ali; Mr. Janardhan; Mr. Gangadhar

Day 3 - 21st July 2019

- 8:30 - 9:15 **CT Basics**
- Dr. Aruna Karnawat
- 9:15 - 10:00 **Spiral CT and MD CT**
- Dr. Ramakrishnan Narayanan
- 10:00 - 10:45 **CT post processing, 4D CT**
- Dr. Vishnuvardhan R
- 10:45 - 11:00 **Tea**
- 11:00 - 11:30 **Artificial Intelligence**
- Dr. Srinivasa Raju
- 11:30 - 12:00 **CR, DR**
- Dr. Ramakrishna Rao Baru
- 12:00 - 12:30 **Quiz Discussion and prize**
- Dr. Abhishek Arora
- 12:30 - 1:00 **Ultrasound basics**
- Dr. Ruju Doshi
- 1:00 - 1:30 **Lunch**
- 1:30 - 2:15 **Doppler basics**
- Dr. Aruna Karnawat
- 2:15 - 2:45 **Ultrasound advances**
- Dr. Madhavi Nori
- 2:45 - 3:15 **Elastography**
- Dr. Rashmi Sudheer
- 3:15 - 3:30 **Tea**
- 3:30 - 5:00 **Discussion and Valediction**

REGISTRATION FORM

Name:.....

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Institution:

Address:.....

E-mail:.....

Contact No.:.....

REGISTRATION FEES

MEMBERS

Before 30th June	Before 10 th July	Spot
Rs. 3,500/-	Rs. 4,000/-	Rs. 5,000/-

NON - MEMBERS

Before 30th June	Before 10 th July	Spot
Rs. 4,000/-	Rs. 4,500/-	Rs. 5,500/-

Payment by DD (payable at Hyderabad) in the name of 'Telangana State Chapter IRIA' filled in registration form to be sent to the Secretariat.

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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.

ADVISORS

Dr. Prabhakar Reddy

Dr. T.L.N. Praveen

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Route Map of KIMS

