



***20<sup>th</sup> Hyderabad  
Annual Radiologic  
Physics Course***

**Through Digital Platform**

**Date :  
11<sup>th</sup> & 18<sup>st</sup> July 2021**



**Organized by:  
Indian Radiological & Imaging Association  
Telangana State Chapter**

**Telangana State Medical Council 6 Credit Hours**

## 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 HAS TO ATTEND THE HARP COURSE?

The Post -graduates in Radiology ie MD, DMRD, DNB and the ones who are appearing for FRCR, EDIR should attend this course. The post - graduates should at least attend once in their duration of the course preferably in 1st year.

The undergraduates aspiring to be Radiologists in future can also attend.

### HIGH-LIGHTS OF HARP COURSE:

- ✓ To start with the basics of conventional Radio-Physics to Molecular imaging, topic of “ARTIFICIAL INTELLIGENCE” and principles and clinical applications of all the modalities has been incorporated in the Curriculum.
- ✓ The faculty of HARP are all Knowledgeable, Practicing clinical Radiologists with the best of working knowledge of the modalities they deal with.
- ✓ The last 10 years question papers were taken in to consideration in designing the topics keeping in view of the exam going Residents.
- ✓ Detailed write up of all the talks will be sent to the participants online.

**Dr. Prabhakar Rao R**

President, IRIA TS Chapter  
& Organising Chairman

**Dr. Ravuri Power**

General Secretary, IRIA TS Chapter  
& Organising Secretary

Course Coordinators

**Dr. Sikandar | Dr. Vikas Reddy | Dr. Sreni Reddy**

# PROGRAMME

## Day 1 - 11<sup>th</sup> July 2021

- 8.45 - 9.00 am Introduction to HARP
- 9.00 - 9.30 am Basics of electromagnetic radiation  
- Dr Jwala Srikala
- 9.30 - 10.00 am X-ray Tube and Production of X-rays  
- Dr M. Indra Neil
- 10.00 - 10.30 am X ray interaction and attenuation, filters and beam restricting devices - Dr Ankit Balani
- 10.30 - 10.45 am Radiobiology - Dr Sapna Marda
- 10.45 - 11.00 am INAUGURATION
- 11.00 - 11.15 am TEA BREAK
- 11.15 - 12.00 pm Radiation Protection - Dr Rakhee Kumar P
- 12.00 - 12.30 pm Factors affecting radiographic image quality  
- Mr Panneer Selvam
- 12.30 - 1.00 pm PACS - Dr. Anitha Mandava
- 1.00 - 1.30 pm CR and DR - Dr Ramakrishna Rao Baaru
- 1.30 - 2.00 pm LUNCH BREAK
- 2.00 - 2.30 pm Fluoroscopy - Dr Srinadh Bopanna
- 2.30 - 3.00 pm Quality assurance in Radiology department  
- Mrs Sudha Pattan
- 3.00 - 3.30 pm Construction of the Radiology Department  
- Dr Satyendra Raghuwanshi
- 3.30 - 3.45 pm TEA BREAK
- 3.45 - 4.15 pm Automatic film processor  
- Dr. Venkatesh M
- 4.15 - 4.45 pm CT Basics - Dr Aruna Karnawat
- 4.45 - 5.15 pm Spiral and MDCT - Mr Panneer Selvam
- 5.15 - 5.45 pm DECT - Dr. Parang Sanghavi
- 5.45 - 6.15 pm CT post processing - Dr Vishnu Vardhan Ravilla

# PROGRAMME

## Programme Day 2 - 18<sup>th</sup> July 2021

- 9.00 - 9.30 am MR Basics and Hardware  
- Mr Panneer Selvam
- 9.30 - 10.00 am MR signal, Spin Echo, Inversion Recovery  
- Dr Shivakanth
- 10.00 - 10.35 am GRE, Steady State, SWI - Dr Gayatri S
- 10.35 - 11.00 am Factors affecting MR image quality  
- Dr Chandresh Karnavat
- 11.00 - 11.25 am K Space, EPI, MR safety  
- Mr Panneer Selvam
- 11.25 - 11.30 am Q and A
- 11.30 - 11.40 am TEA BREAK
- 11.40 - 12.10 pm DWI, DTI, MR Spectroscopy - Dr Shivakanth
- 12.10 - 12.45 pm MR Perfusion, fMRI, Fat suppression techniques  
- Dr Gayatri S
- 12.45 - 1.05 pm MRA, MRV - Dr Jaganmohan Reddy J.
- 1.05 - 1.20 pm MR Artifacts - Dr Shivakanth
- 1.20 - 1.30 pm Q and A
- 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 Noori
- 3.30 - 3.45 pm TEA BREAK
- 3.45 - 4.15 pm Nuclear Medicine Basics and SPECT  
- Dr Madhur Srivastava
- 4.15 - 4.45 pm Molecular Imaging - Dr Suneetha B
- 4.45 - 5.15 pm PET-CT and PET-MR - Dr. Sikandar
- 5.15 - 5.45 pm Artificial Intelligence - Dr Amit Kharat
- 5.45 - 5.50 pm Q and A
- 5.50 - 6.00 pm Valedictory

## REGISTRATION FORM

Name:.....

IRIA Membership No.:.....

Designation:.....

Institution: .....

Address:.....

.....

.....

E-mail:.....

Contact No.:.....

## REGISTRATION FEE FOR 2 Days (11<sup>th</sup> & 18<sup>th</sup> July 2021)

### MEMBERS

Before  
30<sup>th</sup> June  
Rs. 600/-

Before  
9<sup>th</sup> July  
Rs. 1,000/-

No Spot  
Registration

### NON - MEMBERS

Before  
30<sup>th</sup> June  
Rs. 800/-

Before  
9<sup>th</sup> July  
Rs. 1,200/-

No Spot  
Registration

Payments for Registration can be done through NEFT/  
RTGS.

Name of the Bank : Indian Bank, Banjara Hills (01674)  
Account Name : Telangana State Chapter IRIA  
Account Number : 6243807479  
IFS Code : IDIB000B090

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. L.T. Kishore*

*Dr. Prabhakar Reddy*

*Dr. T.L.N. Praveen*

## **OFFICE BEARERS OF TELANGANA STATE CHAPTER OF IRIA**

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*Dr. Aruna Karnawat*

*Dr. Jwala Srikala M*

*Dr. Ankit Balani*

PC PNDDT Co-ordinator

*Dr. Krishna Mohan P*

**Address for Correspondence**

**General Secretary**

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