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St. Joseph's College of Engineering
St. Joseph's Group of Institutions
OMR, Chennai - 119.
COUNSELLING CODE : **1317**



DEPARTMENT OF SCIENCE

REPORT – NATIONAL WEBINAR ON “RADIATION PHYSICS (RP-2020)” - RECENT ADVANCES IN RADIATION THERAPY FOR CANCER TREATMENT

DATE: 23rd June 2020

BACKGROUND & OBJECTIVE:

Department of Science, St. Joseph's College of Engineering organized an national webinar on “**RADIATION PHYSICS – (RP 2020)**” for Faculty members, Research Scholars and students from **23rd June 2020**. Radiation can be thought of as the transmission of energy through space. Treatment of materials and products with radiation in order to modify their physical, chemical and biological properties is defined as radiation processing of materials. Radiation processing can be controlled and used for the development of the novel materials and products with desirable properties. The knowledge of the basic radiation physics, including the structure of matter, elements of nuclear physics and the nature of electromagnetic radiation. Radiation Physics is an interdisciplinary science and in the past different aspects of the subject such as nuclear and atomic cross section measurements analysis, shielding of accelerators, dosimetry, nuclear electronics, radiation biophysics, etc., It has been increasingly feel that a webinar presenting the subject matter in an integrated manner would be useful to specialists working in isolated areas of radiation physics as well as to those interested in the global view of the entire subject.

RESOURCE PERSONS DETAILS:

DATE	TOPIC	PRESENTER	Link
23.06.2020 10 AM –11 AM	Radiation Physics (RP 2020) - Recent Advances in Radiation therapy for cancer treatment	Dr. C. VARATHARAJ, M.Sc., M.Phil., Dip.R.P., Ph.D. FUICC (USA), FICTP (Italy), FUICC (Canada) Associate Professor, Department of Radiation Physics, Kidwai Memorial Institute of Oncology, Bangalore – 560 029. India.	https://youtu.be/EyZFNfzFlo

FACULTY DEVELOPMENT PROGRAM DETAILS:

The International online Faculty Development Program on “**RADIATION PHYSICS (RP-2020)**” was conducted using the registration link <https://forms.gle/Jc2DKuX8z7wdD3Hg9> and Streamyard Youtube live links

<https://streamyard.com/3mnruxkqye>, <https://youtu.be/EyZFNFfZFlo> E-certificate has been issued to the participants those who were submitted feedback form through feedback link <https://forms.gle/peDbfwTc5pNCWKHZ7>

PARTICIPANT'S DETAILS:

Total Number of Registration: 775

A total number of 445 participants from various parts of the World have participated and were issued participation certificates through their registered e-mail based on their feedback forms.

OUTCOME:

An overwhelming response has been received for the Nation webinar on Radiation Physics – (RP 2020) program from the participants from various Educational institutions and Research Centres. The webinar exposed the participants to the clear and in-depth idea about the theoretical and application oriented aspects of Radiation Physics. The participants have given very good feedback for the presentation and explanation.

HOD/Convener

Dr.V. N. Nandini Devi M.Sc., Ph.D.,

Professor and Head

Department of Science

Principal

Dr. Vaddi Seshagiri Rao

Organizers

Dr. G. Murugan/AP/Dept. of Chemistry

Mr. Kaleel Mohamed Ibrahim/AP/Dept. of Physics

Dr. B. Subash/AP/Dept. of Chemistry