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Dr. Avadhani D.N , Associate Prof. -Physics

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Registration: Free

<https://forms.gle/apfgvYbMjha5EsrMA>

R V College of Engineering

(Autonomous Institution Affiliated to Visvesvaraya Technological University, Belagavi)

Bengaluru-560059



Five day Online Workshop

on

"Computational Physics for Higher Education"

Sponsored by

**Karnataka State Science and Technology Academy
(KSTA)**

09-13 AUGUST, 2021



Organized by

Department of Physics
R.V. College of Engineering
Bengaluru - 560 059

About the Institution:

RV College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a non-profit trust. RVCE is an autonomous college. Currently institution offers 13 bachelor, 16 Master Programmes and all the departments have research centers. affiliated to Visvesvaraya Technological University (VTU) Belagavi. Current annual intake for undergraduate, post graduate and research programmes in Engineering is in excess of 1200. Qualified and dedicated faculty motivate the students to achieve high academic proficiency.

Recent awards and achievements of the college include "Engineering College of the year-2019" by the higher education review Magazine, Ranked 70th in the country by National Institutional Framework (NIRF) -2020, Ranked 6th among the top 10 of 100 Pvt Engineering Colleges in the country by Education World Magazine. All the UG programmes and eligible PG programmes have been accredited multiple times by NBA.

About the Department:

The Physics department has a team of enthusiastic and qualified faculty with a passion for teaching and research. Department has VTU recognised research center equipped with basic facilities and equipments like electrochemical workstation. The active research fields are thin films, polymer composites, energy storage devices and Computational Physics. Department has included Physics experiments using ICT tools in the syllabus and constantly organizing workshops and FDP's in the area of Computational Physics.

About the KSTA:

Karnataka Science and Technology Academy (KSTA) is an autonomous organization under DST, GOK. KSTA has been carrying out a number of programmes to encourage students pursuing studies at different levels in an educational pyramid as well as popularization of science among general public.

Objective of the workshop:

Participants will be exposed to open source hardware and software frame work for simulating Physics experiments using ICT tools.

Topics covered in the workshop:

- Python for Scientists and Engineers-Lecture followed by hands on python tutorial.
- Computer interfaced Physics experiments.
- Scilab for Science education-Lecture with hands on tutorial.
- Modelling tool for Physics education.
- Open source ICT-tools for teaching and learning.

