



RV Educational Institutions[®]
NMKRV College for Women[®]

Autonomous
Institution Affiliated
to Bengaluru
University

Recognised by UGC as
College with Potential
for Excellence.
Accredited by NAAC

CRITERIA – III : Research , Innovation & Extension

3.3 – Innovation Ecosystem

3.3.2- Workshops/ Seminars on Research

Research Capacity Building for Women in STEM

Date: 25th March 2022

The UGC STRIDE Component-1 funded one-day lecture series on Research Capacity Building for Women in STEM was held on 25th of March 2022 in NMKRV College for Women.

UGC STRIDE is a scheme by the University Grant Commission for trans-disciplinary research for India's developing economy. It aims to promote innovative culture for trans-disciplinary research especially in universities and colleges. Our college has received 52 lakhs grant under the UGC STRIDE Component-1 scheme in 2019 for Research Capacity Building and Human Resource Development.

Capacity building within the context of research is defined as enhancing the abilities of individuals, organizations and systems to undertake and disseminate high quality research efficiently and effectively.

STEM is an abbreviation for Science, Technology, Engineering and Mathematics. It is an interdisciplinary approach that helps students to succeed in college and in their further careers. The focus of STEM education is to give hands-on, problem-based learning.



The three dignitaries who were invited to confer the lectures include-

- Dr. Tripti Shrivastava, Senior Research Scientist at Translational Health Science and Technology Institute, Faridabad, Haryana.
- Dr. Albeena Nisar, Scientific Officer at CAR T Cell Therapy Centre and cGMP Cell Therapy Centre, ACTREC, TMC, Mumbai, India.
- Dr. Manpal Sridhar, Emeritus Scientist, ICAR-National Institute of Animal Physiology and Nutrition, Adugodi, Bengaluru, India.

Dr. Tripti Shrivastava spoke about Respiratory Viral Diseases, Respiratory Syncytial Virus (RSV), vaccines for RSV. She also explained the types of vaccines, the mechanism of action of a vaccine and the successful story of the vaccine against the polio virus. She briefed the crowd about epidemic, endemic and pandemic. We learnt in much greater detail about the influenza virus, the types of influenza based on the viral proteins and host organism. We were also given the understanding about SARS-CoV-2, the efficacy of COVID-19 vaccines against the variants and mutations deciding the effectiveness of vaccines.



Dr. Albeena Nisar discussed about the Cellular Therapies for curing Cancer. This talk gave light upon the types of cancer treatment, types of immunotherapy and how immunotherapy works. This lecture gave us an overview on the CAR T Cell Therapy, its working mechanism and advantages. We were also briefed about the NK Cell Therapy and Oncolytic Viro Therapy to cure cancer in patients.

Dr. Manpal Sridhar bestowed knowledge to the crowd about Microbial Deconstruction of Lignocellulosic Material for Enhancing Livestock Productivity. We learnt about ruminant nutrition, various ways of utilizing crop residue and the need for deconstructing lignocellulosic material. We gained knowledge about various lignolytic enzymes of microbial origin that degrade lignin, the extraction of these lignolytic enzymes from wide range of fungi, screening, optimization of enzymes and the methods involved in the purification of these enzymes. Thus, we learnt about the ways of enhancing livestock productivity.



This lecture series exposed the students and faculty to various concepts of science and technology and motivated them towards understanding the need for further research to improve the environment and mankind.

The Department of M.Com organised the following activities on Skill Development

- a) A 10 Days Hands on workshop on 'Financial modeling using spreadsheet' is organized in association with Primax Eduacademy, Bengaluru for the students of M.Com on 18-3-2022 to 29-3-2022. The students were given hands on training by the resource person. 40 students participated in the workshop.



- b) A 15 Days Hands on workshop on ‘**GST Practical’s**’ was organized by Department of Commerce PG in association with Aaptha academy, Bengaluru on **27-7-2022 to 16-8-2022**. The final year M.Com students were exposed to this workshop. 40 students along with the faculty members were benefited through this workshop.

