

B. Three-Minute Video Presentation of Research: Competition for Research Scholars

In this completion, every research student in the University has to make a presentation for 3 minutes, explaining their research/hypothesis and its deliverables/application to the society/knowledge domain.

The presenter can use only one PowerPoint slide as an introduction (highlighting name, title of work, name(s) of supervisor(s) and registration order number and date) and has to talk for 3 minutes explaining their work. Presentations are to be spoken word. Each scholar has to speak in front of the entire group in the department including all students, office staff and faculty. All the talks will be video documented separately. The talk may be in Malayalam (preferable) or English. Each talk has to be video recorded in mobile/SLR camera/handicam separately and will be evaluated by the department council. The best presentation from each department will be selected by the Department Council and all the Videos thus recorded will be sent to the organisers. From each faculty the best presentation will be selected for the award and will be put in the University Website. All winners will be given certificates and trophies.

Date: On or before 26th February 2019 (Department-level competitions)

■ Date of submission to the organisers in CD:
28 February 2019

■ Presentation of awards:
2nd March 2019

C. Workshop on Popular Science Writing and Communication

A common workshop will be organised for students interested in science writing in Malayalam and English. Experts will handle the classes.

■ Dates: **1st and 2nd March 2019**

D. Exhibition at Sophisticated Instrumentation and Computation Centre (SICC) (<http://kusicc.ac.in/>)

The Sophisticated Instrumentation and Computation Centre (SICC) at Kariavattom campus is a new and exciting initiative with broad range of state-of-the-art analytical instruments purchased under PURSE Scheme and various other sources. The centre represents one of the largest commitments for research in the history of the university and will carry forward decades of research into new realms of application and discovery. The visitors will get a unique opportunity to see the



sophisticated instrumentation centre and the instruments installed, which include High Performance Computing Facility, Scanning Probe Microscope with Peak Force Tapping Package (SPM/AFM), iCAP Qc Series ICP-MS with New Wave NWR 213, X-Ray Diffractometer (XRD), Spectral Confocal Microscope (SCM), UV-Visible-Near Infrared Spectrophotometer (UV-VIS-NIR), Carl Zeiss EVO 18 Secondary Electron Microscope with EDS (SEM), Thermo Fisher Scientific iS50 FT-IR Spectrophotometer, Nuclear Magnetic Resonance Spectroscopy (NMR), CHN(S) Analyser Simultaneous Thermal Analyser TGDTA/DSC, DNA Sequencer, Liquid Nitrogen (LN2) Generator, X-Ray Photoelectron Spectrometer (XPS), High-Performance Thin-Layer Chromatography (HPTLC) and Liquid Chromatography-Mass Spectrometry (LCMS).

DEPARTMENT LEVEL ACTIVITIES

Science day celebrations and open house are the means of reach out to the students and public, to showcase the evolution of the mother university, to communicate the academic and research contributions and to provide a platform for interaction between the academic community and people. This programme will highlight the innovative practices followed by the university, its various departments and societal applications of research, especially in the fields of science and technology. Further, the programme is designed to inculcate scientific temper among students, besides providing career advices for the youngsters.

The departments may organise a series of programmes including Public Lectures, Exhibitions, Competitions, Debates, Demonstrations, Trainings, Film shows and Open Days in order to highlight the importance of science and to showcase their strength in education, research and extension.

Each department or school can organise a workshop on **Research Methodology, Paper Writing and Presentation.**

Open House may be arranged during the science week celebrations, preferably a common day for a school. A common invitation can go from the University and from the PRO indicating the date(s) of open house days. However, each department may invite school and graduate students from various colleges and organise programmes for them and distribute brochures.

Best department award: Based on the programmes and open house day performance

Dr. Gabriel Simon Thattil
Director, IQAC
(Chairperson)

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(Co-ordinators)

<https://www.keralauniversity.ac.in>

BENEFITS TO THE VISITOR

- Through the exhibition the departments create accessible, innovative and good quality learning materials for students and public, highlighting the socially relevant academic and research activities.
- Creation of awareness on latest technologies and science and better practices in other faculties
- Networking opportunities for the students to further their academic activities and dream for research options for future.
- Opportunities for students and public to interact with researchers and academicians in the University to exchange ideas and to develop mutual respect essential for inclusive education.

We cultivate and embrace the full diversity of voices from all backgrounds and experiences through

SCIENCE WEEK CELEBRATIONS

SCIENCE WEEK CELEBRATIONS & OPEN HOUSE

Celebration of Science by University of Kerala

25TH FEBRUARY TO 2ND MARCH 2019

THEME:

SCIENCE COMMUNICATION FOR ALL

OPEN HOUSE DAYS

Public Lectures | Exhibition
Competitions | Demonstrations
Workshops | Film shows
Debates | Open Days



Organised by
INTERNAL QUALITY ASSURANCE CELL
UNIVERSITY OF KERALA

OVERVIEW

The University of Kerala, Mother University of the state, has crossed a land mark in its history as it turned 80 years old on 1st November, 2017. Founded as University of Travancore in 1937, this University has been at the forefront of the renaissance of the Kerala society during the 20th century and contributed immensely towards human resource development in multiple sectors. In line with its motto "KarmaniVyajyathePrajna" (Wisdom manifests in action), the University of Kerala is re-accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade. Further, the University is ranked 30th among Indian Universities by the National Institutional Ranking Framework (NIRF) in 2018, the highest rank of any University in Kerala, besides ranked in the band 800-1000 among world universities by TIMES World University Rankings. The University of Kerala was ranked first (in 2015) and second (in 2016) in the Chancellor's Award for best University in the State of Kerala.

Science has the power to change human lives for the better, providing technological paradigms to take academics and research to new frontiers, and overall setting the platform for sustainable development. The Syndicate of the University of Kerala has decided to celebrate **National Science Day**, with a week-long celebration involving all the departments. It has also been decided to consider one day in this week as **Open House (Open Day)** where the doors of all the departments of the University will be open to the general public to allow people to look around the University and learn about it. The events during these days will showcase the evolution of the mother university and its departments, communicate the academic and research contributions to the society and will provide a platform for interaction between the academic community and people. This programme will highlight the innovative practices followed by the university, its various departments and societal applications of research, especially in the fields of science and technology. Further, the programme is designed to inculcate scientific temper among students, besides providing career advices for the youngsters.

The essence of science is independent thinking, hard work, and not equipment. When I got my Nobel Prize, I had spent hardly 200 rupees on my equipment.
-Sir C.V. Raman



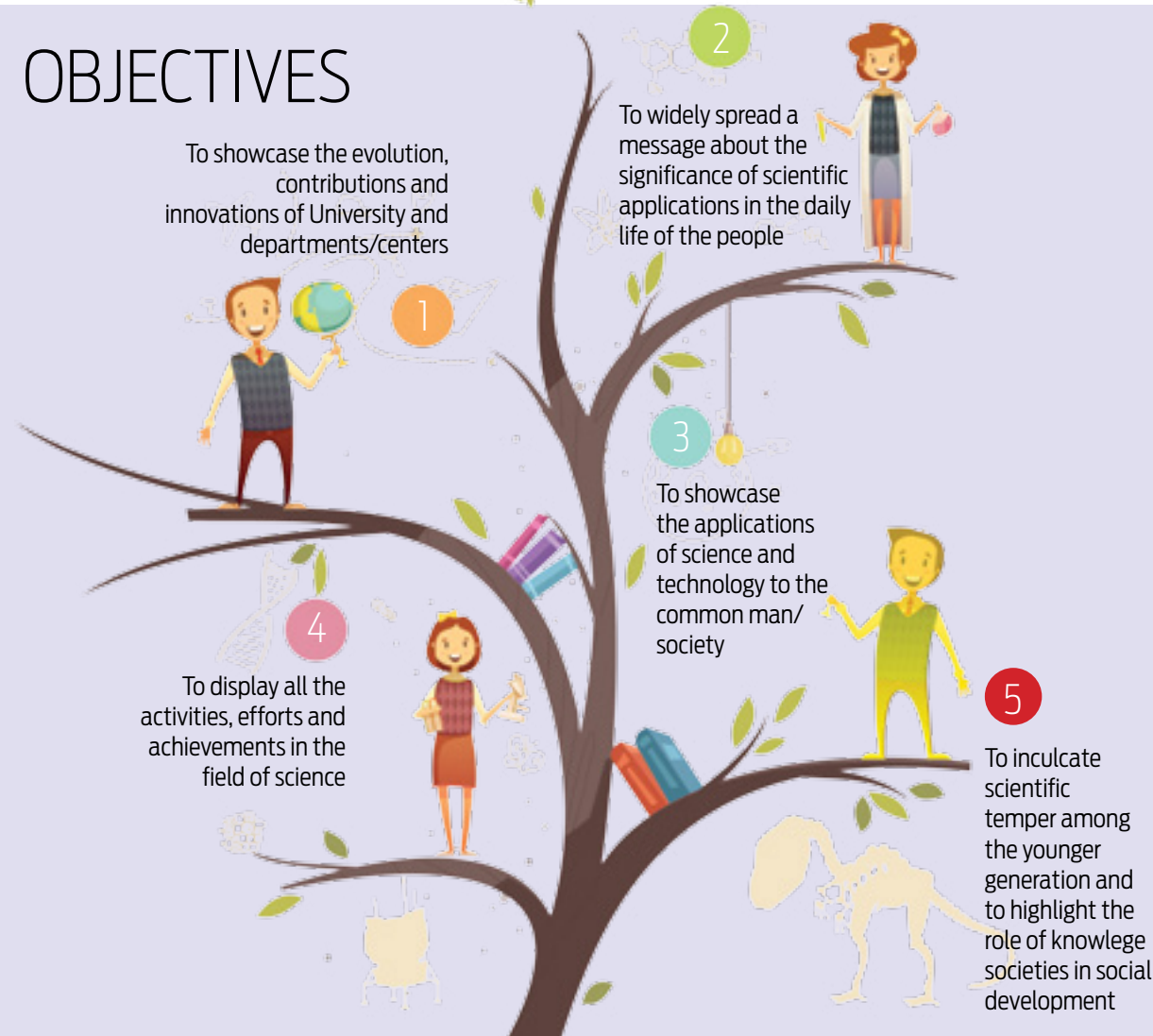
National Science Day is celebrated in India on 28 February each year to mark the discovery of the Raman Effect by Indian physicist and Nobel Laureate **Sir C V Raman** on 28 February 1928. The basic objective of observation of National Science Day is to spread the message of importance of science and its application among the people. This year, the theme topic of Science Day is **Science Communication for All**, which demands communication of science across disciplines, highlighting the importance of science for humanity.

We must teach science in the mother tongue. Otherwise, science will become a highbrow activity. It will not be an activity in which all people can participate. **C. V. Raman**



The whole of science is nothing more than a refinement of everyday thinking. **Albert Einstein**

OBJECTIVES



VISION

A world where the complexity, wonder and opportunities of scientific and academic research are explored, challenged, celebrated and enjoyed across society.

SUGGESTED PROGRAMMES

Science Week Celebrations (SWC)

25th February to 2nd March 2018

Common programmes

PUBLIC LECTURES

COMPETITIONS

- Workshop on science writing and communication

Department-level programmes

OPEN HOUSE

Public Lectures | Exhibition Competitions | Demonstrations, Workshops | Film shows Debates

COMMON PROGRAMMES

A. Public Lecture Series

27th February 2019 10.00 - 11.15 am

Introductory Remarks : **Dr. V. P. Mahadevan Pillai**, Vice Chancellor
 Key-note address : **Shri. M. C. Dathan**, Scientific Advisor, Government of Kerala
 Science day messages : **Dr. S. Nazeeb**, Member, Syndicate
 : **Dr. Annie Abraham**, Director of Research, University of Kerala
 : **Dr. Gabriel Simon Thattil**, Director, IQAC
 : **Dr. A. Biju Kumar**, Dean, Faculty of Science
 11.15- 11.30 am : Tea Break

INVITED PUBLIC LECTURES

Topic: Optics for 4th Industrial revolution : **Dr. Murukeshan Vadakke Matham**
 Director, Centre for Optical and Laser Engineering (COLE), Nanyang Technological University, Singapore
 Topic: Energy-mix for the coming decades : **Dr. Jatin Rath**
 Professor, Department of Physics, Indian Institute of Technology Madras, Chennai

28th February 2019 10.00 am - 12.30 pm

INVITED PUBLIC LECTURE

Science Day Message : **Dr. C.R. Prasad**, Registrar, University of Kerala
 Introductory Remarks : **Dr. A. Biju Kumar**, Dean, Faculty of Science
ആരാണ് ഭാരതീയർ? ജിനകൾ പറയുന്ന കഥ
 Lead Lecture : **Dr. Sunil P Elayidom**, Professor, Sree Sankaracharya University of Sanskrit
ശാസ്ത്രം, ചരിത്രം, മാനവിതര

1st March 2019 10.00 am - 12.30 pm

INVITED PUBLIC LECTURE

Science Day Message : **Dr. Ajayakumar P. P.**, Pro Vice Chancellor, University of Kerala
 Introductory Remarks : **Dr. Achuthsankar S Nair**, Head, Department of Computational Biology
 Lead Lecture : **Dr. A. Jayakrishnan**, Former Vice Chancellor, University of Kerala and Professor (Retd), IIT, Madras