

REPORT ON FACULTY DEVELOPMENT PROGRAMME 2014

The School of Graduate Studies, Jain University, J C Road conducted a Faculty Development Programme for UG lecturers from 17 to 19 December 2014.

There were two sessions on all the days; a general session for all the faculty members followed by subject oriented sessions. The general sessions were conducted by Dr. Sandeep Shastri, Dr. Shailaja Shastri, Dr. Sherin and Ms. Ashwini.

For the general sessions on all the days the faculty members were divided into two groups-Advanced and Preliminary; based on the years of experience in the University.

Subject oriented sessions on each day were conducted separately for Physical Sciences; Life Sciences and Chemistry; Forensic Sciences; BCA, ISMS and Computer Science; Arts and Languages. These sessions were conducted by subject experts from academic organizations of high repute and enhanced the knowledge of faculty in the recent trends, techniques and happenings in their respective fields of study. This in turn would benefit the students because such knowledge updation would make them ready to face the challenges of the competitive fields of study.

Thus the faculty development programme was a true overall value addition for the faculty members and was an academically enriching experience.

DAY 1 – 17 December 2014

GENERAL SESSION

PRELIMINARY

Mrs. Ashwini, Faculty, PG Department of Psychology, conducted a session on the topic “Decoding EQ” wherein the faculty members learnt about the different types and features of cognitive distortions and also the types of behavior based on a teacher and a student perspective.

ADVANCED

The advanced session was conducted by Dr. Sherin on the topic “Being and feeling happy” which highlighted the importance of being happy in life and how happy teachers could have a very positive influence on the lives of students. The session through small group activities taught the faculty members to introspect and find out what makes them happy in life.

SUBJECT SESSIONS

PHYSICAL SCIENCES (Math s/ Physics / Electronics)

Prof. C.D. Prasad, Retired scientist from ISRO, gave a very informative and scintillating talk on “Space Technology”. He spoke on all the engineering aspects of satellite testing, launching vehicles (PSLV & GSLV), assembly, launching and tracking. He also gave good information on Mars Orbit Mission (MOM) and Chandrayaan mission.

LIFE SCIENCES / CHEMISTRY

Dr. M.R.N. Murthy, from Indian Institute of Science, Bangalore gave a talk on “Applications of Physical science in the field of Biological sciences”. The talk was mostly centralized on X-ray crystallography and polarized light microscopy. Basic concepts behind the working principle and its applications were explained in detail. It helped faculty members to gain knowledge about microscopy in general and to use the instrument to its maximum extent.

FORENSIC SCIENCE

Mr. V.G. Nayak, from Karnataka state Forensic Science Laboratory, gave a talk on Toxicology recent trends and in perspective. The talk Started with a briefing on Forensic Toxicology and later went into the detail of it, giving importance and concentrating on classification of poisons based on the method of extraction, which is carried out in the laboratory. He threw light on the hurdles faced by forensic toxicologists in the analysis of the samples. He shared his experiences regarding the lapses that take place by Investigating officers, police officers, forensic scientists, and lawyers that lead to the evidence being useless in the case. He also gave a few case studies regarding these. He also spoke on the curriculum that needs to be set for the students in order to perform the role of a forensic scientist with efficiency.

BCA / ISMS / COMPUTER SCIENCE

The session was on “Essentials of Writing Research Paper”. Guest speaker was Professor and Head of the department Master of Computer Application, Dr. J Meenakumari from The oxford college of Science, Bangalore. She inspired Ph.D. scholars and all faculties to do research and publish papers in journals of National and International repute.

LANGUAGES

The faculty members from all language departments; English, Hindi, Kannada and Sanskrit participated in an Interactive session. The session was a discussion on comparative literature comparing regional texts, primarily life writings.

ARTS

The session was conducted by the Sr. Agnes, from Bangalore University on classroom behaviour of students and learning styles of teachers. The session was very interactive and there were lot of inputs

from both sides. The session moved to discussion mode. The overall session of faculty development programme was productive and fruitful.

DAY 2 – 18 December 2014

GENERAL SESSION

PRELIMINARY

On the second day, Dr. Shailaja Shastri, Head PG Department of Psychology, Jain University, conducted a session on “Bringing multiple intelligence into the classroom”. In the session the faculty members learnt that intelligence is the capacity of individuals to acquire and advance knowledge and reflects the priorities and opportunities in the society. The session made everyone understand that the role of a teacher is to identify, nurture and encourage the students in developing competencies and also to develop an interdisciplinary curriculum facilitating interconnection between intelligences. The aspects were presented through group discussions and activities.

ADVANCED

On the second day, Dr. Sandeep Shastri, Pro Vice Chancellor, Jain University, conducted a session on the topic “Changing role of a faculty”. The session was extremely interesting and beneficial to the faculty members where through group activities, the role of a teacher in modern times was highlighted. The facts like center of learning, understanding the difference between teaching and learning, the teachers being constant learners, involvement of teachers, Innovation in class room and providing a controlled lenience were dealt with.

SUBJECT SESSIONS

PHYSICAL SCIENCES (Maths / Physics / Electronics)

Prof. Alladi Sitaram an eminent Academic working in the broad area of Mathematical Analysis, addressed to the Physical Sciences faculty on the topic “Mathematical analysis in the physical sciences”. He started by reading out a passage of Poincare a great Mathematical Physicist. He then got into a narrative which chronicled the simultaneous development of ideas in Physics as well in Mathematical Analysis. For instance he cited Newtonian laws which very much needed calculus ideas. He then went on to tell us the story of how gravitational laws were a consequence of mathematical deduction. Another phenomenon which linked almost all physical sciences like electronics, computing and physics was that of Fourier expansion and transform techniques. He explained how Joseph Fourier started with the analysis of heat conduction and hit upon the idea that almost all (well behaved) functions could be expanded as fourier series. This idea he said has immense applications and today all digital communication phenomena including the song and speech downloads that people do often are due to the fundamental notions put forth in the form of Fourier analysis. He also briefly touched

upon the life and work of Harish Chandra who worked both in Physics and Mathematics and attained great appreciation, fame and glory in the research community.

LIFE SCIENCES / CHEMISTRY

Prof H.G. Nagendra, from Visvesvaraya Institute of Technology, Bangalore, spoke on the Topic- "Enigmatic facets of Cancer". His talk was on cancer, its types, complexity and characteristic features at molecular level. Different types of cancer and their predominance in Humans were explained in detail. Later part of the talk mostly emphasized on drug designing using bioinformatics and computational biology with different lead molecules from plant sources.

FORENSIC SCIENCE

Dr. Vinod J Lakkappan from Karnataka state Forensic Science Laboratory spoke on the topic "Recent trends in DNA analysis". He gave a brief introduction on DNA and its uses in the field of investigation. He explained in detail the methods of DNA profiling using the VNTR, STR etc. He explained the importance of PCR and its uses in the Forensic Laboratory. He gave the procedures for extraction of DNA from various sources like bone, teeth etc. He also gave us cases which he has worked on as examples to help us understand these aspects better. He also spoke on the modern techniques developed and also on the techniques that are developing in this area, research conducted and in what way we as faculty can conduct research projects.

BCA / ISMS/ COMPUTER SCIENCE

Technical session on day 2 was on "Mobile App Development in Current IT Scenario". Guest speaker was Ms. Dhanya Mentor in Mobile Applications, iNurture Education Solutions Pvt. Ltd., who gave the faculty members useful insights related to the topic.

LANGUAGES

The session on day 2 was conducted by Dr. Mamtha Sagar, the poet and theatre artist. Her interventions into gender constructs, patriarchy and sexuality in popular culture was set as premise for discussions on renewed connotations of gender in contemporary times. A performer by profession she rendered her literary pieces letting the participants experience the verse form through emphasis on sound effect and dramatics. Her poems were rooted in reality, and she narrated how she had conceptualized these life experiences into poetry. The session was theory and practice driven.

ARTS

Mr. Ashok Acharya, Corporate trainer, spoke on the topic "Emotional Intelligence". This session mainly focused on how emotions play an important role in a workplace. Emotional intelligence (EI) is vital to being an effective and high-performing member of any team. Professionals who understand the connection between emotions and actions and can apply EI skills to maximize effectiveness have a stand-out advantage in any organization.

DAY 3 – 19 December 2014

GENERAL SESSION

PRELIMINARY

On the third day, Dr. Sandeep Shastri Pro Vice Chancellor, Jain University, conducted an interactive session on “You are the message” wherein teachers learnt that Teaching and Learning go hand in hand. This was done through very interesting group activity and discussion.

ADVANCED

On the third day, Dr. Shailaja Shastri, Head PG Department of Psychology, Jain University, conducted a session on the topic “Training for future minds” through group activities and a lot of interaction. She spoke on different kinds of minds like Synthesizing, creative, ethical and respectful minds.

SUBJECT SESSIONS

PHYSICAL SCIENCES (Maths / Physics / Electronics)

Dr. G Raju Garudachar, Adjunct Professor, Dept. of ECE, Jain Engg. College, Jain University spoke on the topic “Current Advanced Applications in Physical Sciences”.

The talk began with “Guiding the teachers about quality improvement in Education”. He emphasized on education enrichment, syllabus update, content update, change in the teaching methodology, updating latest trends in science and technology, referring journals, publications etc. Quest for new research in the field of astronomy, planitation, Role of physical science subjects, the general topics like – Astronomy, Remote sensing, Climate change, Space mission and Navigation. He explained Big bang theory, History of Universe, Space Astronomy, Radio telescope, Antennas. The talk also focused on chandrayana, MARS, MOM (Mars Orbiter Mission) were discussed. Microwave sensing, Radio meter, Brightness temperature measurement, Microwave image, wind profile Radar, Space born imaging Radar etc. He explained the current global issues like reason and effect of climate change, greenhouse effect. The brief account on new devices like altimeter an instrument used for the measurement of ice thickness in Antarctica, Megha-Tropique mission. He spoke about space vehicles, Latitude preparation, transport and launching of satellites. He gave a brief account of technologies like semiconductor, Microwave devices antennas, spatial filters, Gytrons, GPS system used in satellite communication and IRNSS (Indian Regional Navigation Satellite System) and Launching of satellites using PSLV and GSLV.

LIFE SCIENCES / CHEMISTRY

Dr. Sandra Misquith Colaco from St. Joseph Art and Science College, Bangalore, spoke on the topic “Enzymes and their Kinetics”. Through the session the faculty members learnt the chemical basis of enzymes and kinetics and also about how their activity can be manipulated for better performance.

FORENSIC SCIENCE

Speakers for the third day's session were - Ms Mohini, Ms. Sowmya and Mr. Sumith from Axxonet System Technologies India Pvt.Ltd. who spoke on "Forensic Psychology". They spoke on the methods of forensic psychology. They gave the methods and uses and drawbacks of Polygraph and BEOS - BEOS is brain mapping. They also gave the areas in which they are working on and the collaboration with the Police Officers and investigation agencies.

BCA / ISMS / COMPUTER SCIENCE

The session on the 3rd day was on "Real time Challenges in Systems" handled by Mr.N.S.M.Kumar - The speaker is currently working as the Head -Anveshana -JGI ventures. The talk was very enlightening and gave us an insight on the practical challenges.

LANGUAGES

The faculty members from all language departments; English, Hindi, Kannada and Sanskrit participated in an Interactive session.

ARTS

Mr. Bhaskar Bhatt, Corporate trainer, spoke on the topic "Organisational behavior". This session highlighted on how individuals behave when they are in groups. The session showed the impact that individuals, groups and structure have on behavior within organization and application of knowledge about how people act within organizations. It is a human tool for human benefit. It applies broadly to the behavior of people in all types of organizations, such as business, government, schools and services organizations. It covers three determinants of behavior in organizations: individuals, groups, and structure.

Glimpses of the Sessions





General Sessions: Preliminary and Advanced











Arts: Subject Sessions





BCA / ISMS / Comp.Sc: Subject Session



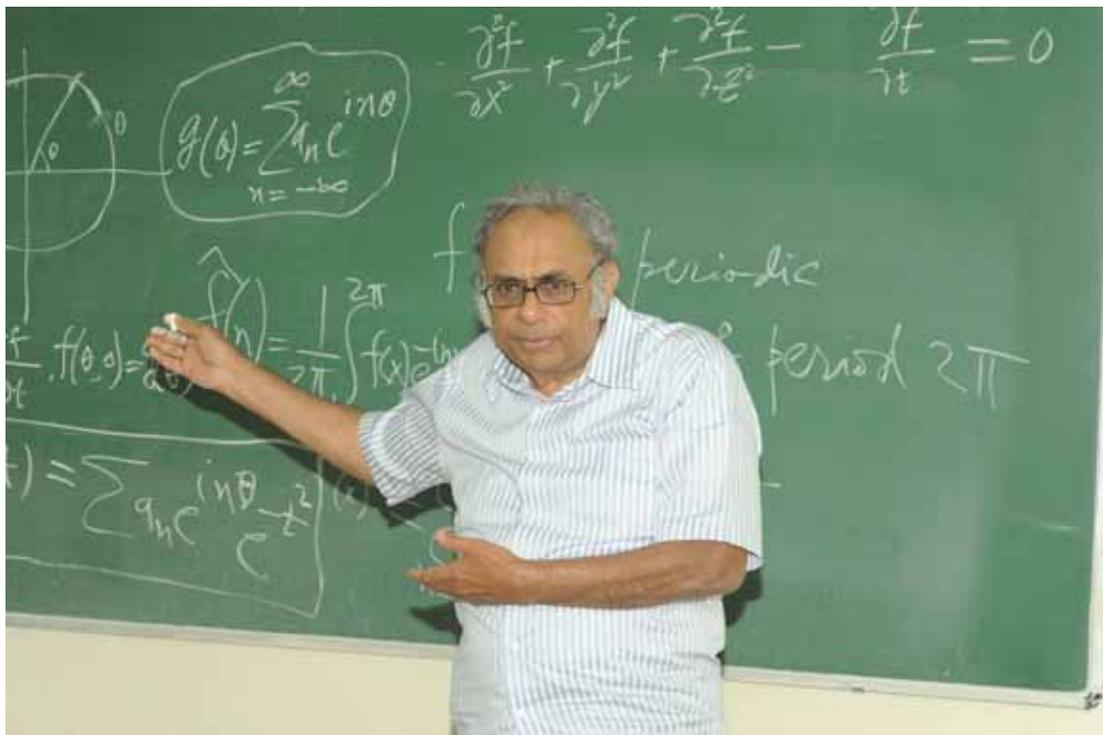


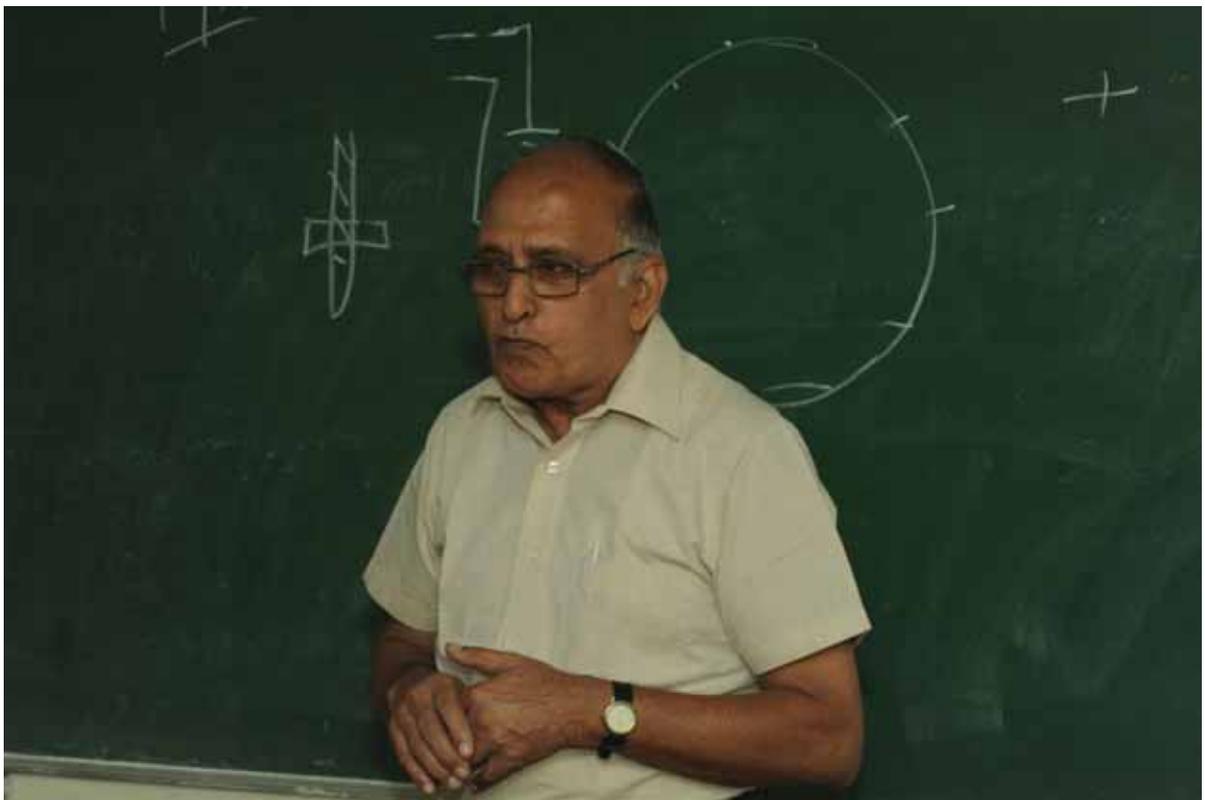
Life Science / Chemistry: Subject Session





Physical Science: Subject Session





Interactive Session: Languages



Languages: Subject Session





Forensic Science: Subject Session

