P.V.K.N. GOVT. COLLEGE, CHITTOOR; A.P.

INSPIRE INTERNSHIP 2015 SCIENCE CAMP

19/10/2015 TO 23/10/2015

FINAL REPORT

Department of Science and Technology (DST) sponsored Inspire Internship Science Camp was held from 19/10/2015 to 23/10/2015 at P.V.K.N. Govt. College, Chittoor, Andhra Pradesh. First we are very much Thankful to the authorities of DST for sanctioning this programme to our college for the first time in Chittoor city.

After receiving the sanction letter from the DST, wide publicity about the programme was given through the news papers and local cable television operators. A team of five faculty members along with Dr. Giribabu the programme coordinator of our college visited all Govt. Junior Colleges in Chittoor city. In each college, we assembled XI class students with 9.2 and above GPA in their X class to bring awareness among them about the DST sponsored Inspire Internship Programme. We also interacted with managements of all junior colleges about this programme so that they can motivate their students to participate in this programme. We have also supplied the online application in the DST format to all the eligible candidates of various Junior Colleges.

In response to our wide publicity in the media and interaction with the students of various junior college students, 180 students who are in XI class with 9.2 and above GPA in their X class submitted their applications in the DST format provided by us showing their interest to join in this programme. We have prepared a merit list of the received applications on the basis of their X class GPA. We intimated to the first 150 members of the prepared merit list about their selection to the camp through their mobile numbers. The remaining candidates in the merit list were kept in waiting list and intimated the same to the candidates through their mobile numbers. A list of selected candidates, wait listed candidates and the procedure to be followed during the entire camp was also sent to the managements of various junior colleges. Meanwhile The Principal of our College Dr. G. Ananda Reddy and the programme coordinator Dr. G. Giribabu assembled faculty members of all the Science Departments to discuss the organization of DST sponsored Inspire Internship Science Camp in the College. In this meeting various committees were formed for the smooth conduction of the programme. We communicated with the mentors listed in the DST official website through their mail IDs to invite them to interact with the participants as mentors in the forenoon sessions. Out of 10 mentor sessions, we were able to arrange 9 mentors from the list provided by the DST in their official website. As the last available slot could not be adjusted by the mentor in list provided by the DST, we requested Prof. W. Rajendra, Ex. Vice Chancellor, Sri Venkateswara University, Tirupati, to act as one of the mentor in the camp. In spite of his busy schedule he accepted our invitation and attended the camp. Out of ten mentor sessions, we were able to provide mentors in all the five disciplines (Mathematics,

Physics, Chemistry, Life Sciences and Earth Sciences) as suggested by the Department of Science and Technology. Out of the ten mentors we provided two scientists from reputed research organizations, one scientist for the inaugural day and another for the valedictory day. We have invited two mentors from the prestigious Central University of Pondicherry. Another two mentors from the reputed University of Madras, Chennai. Besides we arranged a session from neurosurgeon of internationally reputed Christian Medical College, Vellore, Tamilnadu; and another session from the Professor of prestigious Indian Institute of Technology Madras, Chennai. In addition to the ten mentors we invited Dr. Anand. A. Samuel, Vice Chancellor, Vellore Institute of Technology (VIT UNIVERSITY) as the chief guest for the inaugural function and Prof. A. Jayaraman, Director, National Atmospheric Research Laboratories (NARL), Department of Space, Govt. of India, Gadanki, Andhra Pradesh as the chief guest for valedictory function.

- **Hard copies of the list of mentors, their course modules and mentor feedback forms are enclosed along with this report**
- **Soft copies of the list of mentors, their course modules and mentor feedback forms are enclosed along with this report in the external hard disc.**

On the first day of the Internship, the interns were reported at the hostel accommodation provided for them and present at the college premises for registration. They were already informed to attend the college campus and register their names before 9 am on the reporting day. Vacancies raised due to the non reporting candidates were filled by the wait listed candidates as per their merit order by intimating them through their mobile numbers. Out of 150 selected participants, 117 were girl students and the remaining 33 were boys. Girl students were accommodated in the women's hostels at N.P.S. Govt. Women Degree College and Krishnaveni Govt. Junior College which are adjacent to our college campus. The remaining 33 male participants were accommodated in our college campus. On the day of registration every participant was provided with an inaugural kit containing a laptop bag, identity card, scribbling pad, pen, mentors list and mentor profiles. Attendance of the participants was daily taken in the attendance format provided by the DST.

- **Hard copies of participants' online applications in the DST format, Participants' X class certificates with GPA, Participants' attendance for the entire camp, Acknowledgement for inaugural kit by the participants are enclosed along with this report.**

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After completing their registration process and having their breakfast, the interns were assembled in the auditorium for the inaugural session. Chief Guest Dr. Anand .A. Samuel, Vice Chancellor of VIT University, Special Guests Dr. R. Raghavendra Rao, Honorary Scientist, Bangalore and Prof. R. Ramakrishna Reddy, President of the function and Principal of the host college, Dr. G. Ananda Reddy, Vice Principal, Dr. M. Sudhakara Reddy, Programme Coordinator Dr. G. Giribabu, UGC Coordinator Dr. K. S. Naidu, all teaching and non teaching staff of the host college were attended the inaugural function of the DST sponsored Inspire Internship Programme. After lightening of the lamp and prayer, Principal of the college Dr. G. Ananda Reddy, Principal of the college delivered his presidential address to the participants. He explained the importance the camp to the students. In his speech, Vice Principal Dr. M. Sudhakara Reddy gave instructions to the students about the programme. Programme coordinator Dr. G. Giribabu detailed the students about the procedure to be followed by them throughout this 5 days camp. He also suggested them to interact with the mentors as well as hands on experimentation trainers to enrich their knowledge. Senior faculty member from the college science departments and UGC coordinator Dr. K. S. Naidu provided briefing on importance of the internship.

Special Guests Dr. Raghavendra Rao and Prof. R. Ramkrishna Reddy addressed the participants and motivated them towards basic sciences and research by bringing awareness in them about the opportunities and financial support provided by various funding agencies to those who pursue their higher education and research. Finally, the chief guest of the function, Dr. Anand. A. Samuel, the Vice Chancellor of VIT University in his inspiring speech suggested the participants to attentive towards the mentors and hands on experimentation trainers to learn to their maximum extent. The inaugural function was ended with the felicitation to the chief guest by other dignitaries on the Dais.

Participants attended to the Registration of the Inspire Internship 2015

Registration process of the participants' to the Inspire Internship

Inaugural address by the Principal of the host college Dr. G. Ananda Reddy

Inaugural address by the Programme Coordinator Dr. G. Giribabu

Inaugural massage by the Chief Guest Dr. Anand A Samuel, Vice Chancellor, VIT University,Vellore

Felicitation to the Chief Guest Dr. Anand A Samuel by the staff members

After completion of the inaugural Function, the participants went for a tea break and further assembled in the auditorium for the first mentor session. For this session we invited Dr. R. Raghavendra Rao, Honorary Scientist, Indian National science Academy (INSA) as the mentor to interact with the participants. His areas of specialization are Plant Taxonomy, Ethnobotany, Phytogeography, Medicinal and Aromatic Plants and Biodiversity Conservation. Research, research promotion through lectures, workshops, evaluation of research papers and publication of research papers are his major activities. He is a member of many international and national professional bodies like Indian National Science Academy (INSA), National Academy of Sciences (NAS), Indian academy of Sciences (IAS), Society of Ethonobotanists, Indian Botanical Society, Indian Association of Angiosperm Taxonomy, Association of Plant Taxonomy, International society for the Conservation of Natural Resources and Linnean Society of London. He received many prestigious awards like Scientist of the Year Gold Medal in 2009 from National Environmental Science Academy, New Delhi; Puri Memorial Award in 2013 from Indian Science Congress, Talented Scientist Award from S.V. University etc. from various reputed national and international professional bodies. He was elected two terms as the president for Society for Ethnobotanists and also served as the president for Indian Botanical Society. In this Programme, Dr. Rao delivered a talk on "Floristic Diversity in India; Conservation and Bio Prospection". In this first mentor session participants were interacted with the scientist to get awareness about the floristic diversity in India. He demonstrated the colour conversion of flowers in Himalayas with his excellent power point presentation. Dr. Rao was also enlightened the participant as well as the faculty members of our institution about the protection of biosphere. After completion of the session he was honored by the faculty members of Life Science departments of the host college.

Second mentor session on the first day of the programme was handled by UGC BSR Emeritus Fellow, Prof. R. Ramkrishna Reddy, Sri Krishnadevaraya University, Anatapur, Andhra Pradesh. He served as the Registrar of Sri Krishnadevaraya University, Anantapur during 2006, Yogi Vemana University, Kadapa during 2009 and served as a Principal to S.K. University College of Engineering and Technology, Anantapur. He has an extensive academic and administrative experience for more than 28 years. His main research interests are in spectroscopy, solid state physics, materials chemistry and Atmospheric Sciences. Prof.

Reddy received many prestigious awards. To site a few, UGC research award for the year 1999, by UGC, New Delhi. Andhra Pradesh Best Teacher Award for the year 2005. American Biographical Institute Inc., USA "Man of the Year 1995". Bharat Jyothi Award for the year 2006 by Indian International Friendship Society, New Delhi., Best Scientist and fellowship Awards (FNESA) for the years 2006 and 2007 by the National Environmental Science Academy, New Delhi. He visited and delivered lectures at Rutgers University and Alabama University, U.S.A. during 2004, 2007and 2014. He was invited to deliver an invited lecture during the Atmospheric Remote Sensing - Education and Training workshop held on 25 September 2013 at University of KwaZulu Natal, South Africa and also chaired a session to the 29th Annual conference of South African Society for Atmospheric Sciences (SASAS) during. 26th to 27th September 2013. He has so far carried out 12 research projects [ISRO, UGC, DST] and published 215 research articles in reputed national and international journals.. He has guided 21 research students for Ph.D., Degree and 10 students for M. Phil., Degree. He has attended 8 international seminars and 85 national seminars. He delivered 40 invited lectures in various universities and organized 11 seminars. He has authored 4 books and are related to Atmospheric Science published in Germany, 2 for graduate students and 8 popular science books. He published around 112 popular science articles in various telugu Dailies news papers /Weekly magazines. He delivered 40 talks through All India Radio, Kadapa and Anantapur. In this Inspire programme, Prof. Reddy delivered a talk and interacted with the participants on the topic "Nanotechnology in Daily Life". In this session he explained them about the basics of nanomaterials and how they are useful to the present society. He impressed the participants by displaying videos on the modern applications of nano scaled structures. After completion of the session he was honored by the faculty members of Physics department of the host college.

After the lunch break the participants were attended to their respective allotted laboratories for hands on experimentation sessions on rotation basis. There the faculty members trained them with their introduction and provided hands on experimentation for the participants in various topics as per the prepared course manuals.

Mentor session 1 on 19/11/2015 by Dr. R. Raghavendra Rao, Scientist INSA, Bangalore

Dr. R. Raghavendra Rao, Scientist INSA, Bangalore; interacting with the interns

Mentor session 2 on 19/11/2015 by Dr. R. Ramakrishna Reddy, S.K. University, Anatapur.

Participant interacting with the mentor, Prof. R. Ramakrishna Reddy

Hands on experimentation Session to the participants; Computer Science Laboratory

Hands on experimentation Session to the participants; Computer Science Laboratory

Hands on experimentation Session to the participants; Chemistry Laboratory

Hands on experimentation Session to the participants; Chemistry Laboratory

Hands on experimentation Session to the participants; Physics Laboratory

Hands on experimentation Session to the participants; Physics Laboratory

Hands on experimentation Session to the participants; Botany Laboratory

Hands on experimentation Session to the participants; Botany Laboratory

Hands on experimentation Session to the participants; Zoology Laboratory

Hands on experimentation Session to the participants; Zoology Laboratory

On the forenoon of second day first mentor session was handled by Prof. P. Ramamurthy, Head; Department of Chemistry, University of Madras, Chennai. His research areas are Ultrafast spectroscopy, Nanomaterials, Photophysics and Photochemistry of Organic molecules and Fluorescent sensors. Dr. Ramamurthy has contributed significantly in the field of ultrafast spectroscopy and Photo sciences not only through his scientific publications but also by establishing the National Center for Ultrafast Processes with state of art facilities which is unique of its kind in our country. He has more than 100 research publications with high impact factor in international and national journals to his credit. He has been awarded UGC career Award in 1993 and bronze medal by Chemical Research Society in 2002. He is a member in many professional bodies like Chemical Research Society of India, Indian Society for Radiation and Photochemical sciences, and Indian Photo biology Society. He has delivered scientific talks in international and national conferences like Asian Photochemical Conference. He has completed 11 research projects with financial support from different funding agencies like DST young scientist, DST-IRHPA, DST-SERC, UGC, CSIR, DAE,ISRO, which has mobilized grants to the tune of ₹.6 crore to the University of Madras. Currently he has one ongoing project from DST-EU with the financial sanction to the tune of 150 lakhs. To his credit he has produced 13 Ph.Ds and 22 M. Phils under his guidance. In this programme he has delivered a talk to our participants on the topic "Electron Vs Photon" .He has started from the fundamentals of atomic structure and interacted with them to bring the awareness about the fundamental particle interactions. Many of the participants were involved in the discussion and clarified their doubts in this session. He impressed the participants with his excellent animations in his power point presentation. After completion of the session he was honored by the faculty members of Chemistry Department of the host college.

After having tea break, second mentor session for the participants was arranged with Prof. G.P. Youvaraj, Ramanujan Institute of Advanced Study in Mathematics, University of Madras, Chennai. He has done his Ph. D in Mathematics from the prestigious Indian Institute of Technology, Kanpur and another Ph. D in Education from Kansas State University, Manhattan, Kansas, U.S.A. His areas of interest in research are Fourier Analysis, Harmonic Mapping, Pseudo Analytic Functions and Summability Theory. In his career he worked in various capacities in University of Madras and also worked as visiting faculty member in various capacities in the Kansas State University, Manhattan, Kansas, U.S.A. He

was honored with Hostinsky Outstanding Graduate Student Award and Outstanding Graduate

Mentor session 3 on 20/11/2015 by Prof. P. Ramamurthy, University of Madras, Chennai

Prof. P. Ramamurthy, University of Madras, Chennai; interacting with the participants

Mentor session 4 on 20/11/2015 by Prof. G. P. Youvaraj, University of Madras, Chennai

Prof. G. P. Youvaraj, University of Madras, Chennai; interacting with the participants

Teaching Assistant Award from Kansas State University, Manhattan, Kansas, U.S.A. He organized many Workshops and Symposia at University of Madras, Chennai funded by the agencies like UGC, CSIR etc. He delivered 30 invited talks and 7 presentations in various national and international conferences. To his credit till now he guided for 2 M.S, 3 Ph. Ds and 10 M. Phils. In this DST sponsored Inspire Internship Science Camp, he had delivered a talk on the topic "Convergence of Series and Sequences". He utilized both the power point presentation and black board in this session to explain the mathematical concepts to the students. They were also appreciated and enjoyed the session by interacting with the mentor to clarify their doubts. Besides his interaction the mentor spared some of his time to bring awareness among the students by explaining the about the courses and financial support extended by various funding agencies and institutions for those who pursue their higher education in mathematics. After completion of the session he was honored by the faculty members of Mathematics department of the host college.

After the lunch break the participants were attended to their respective allotted laboratories for hands on experimentation sessions on rotation basis. There the faculty members trained them with their introduction and provided hands on experimentation for the participants in various topics as per the prepared course manuals.

For the third day forenoon of the internship we invited Prof. Vedantam Rajsekhar, Neurosurgeon from internationally identified Christian Medical College, Vellore, Tamilnadu as mentor for the first session. Dr. V. Rajshekhar joined the Faculty of the Department in 1987 soon after completing his M.Ch. Neurosurgery (5 year course) from the Christian Medical College, Vellore. He was a cerebrovascular fellow at Dartmouth Medical School, Hanover, U.S.A. between 1989 and 1991. His special interests are stereotactic and functional neurosurgery, cervical spine and cranio vertebral junction surgery and neurocysticercosis. In his career he worked as the President for Indian Society of Neuro-oncology, as President for Neurological Society of India, President, Indian Society of Stereotactic and Functional Neurosurgery and as the Chairman for WFNSR Radio surgery Committee, Christian Medical College, Vellore. In this Inspire Internship Camp, He delivered a talk on the topic "Essentials of Scientific Research". In this session he impressed the participants with his simple and easily understandable language. He provided a briefing for them about the various steps involved in the process of scientific research. He was able to extract the various qualities of a scientist from the participants through interaction. Besides his topic he spent some of his

Mentor session 5 on 21/11/2015 by Prof. V. Rajasekhar, Christian Medical College, Vellore

Participants interacting with the mentor, Prof. V. Rajasekhar, Christian Medical College, Vellore

Mentor session 6 on 21/11/2015 by Prof. W. Rajendra, Ex Vice Chancellor, S.V. University, Tirupati

Prof. W. Rajendra, Ex Vice Chancellor, S.V. University, Tirupati; interacting with the participants

time to motivate the students towards higher education by explaining the way of teaching and learning process in Christian Medical College, Vellore. After completion of the mentor session he was felicitated by the faculty members of life sciences departments in the host college.

The second mentor session on the forenoon of the third day of the programme was handled by Prof. W. Rajendra, Ex. Vice Chancellor, Sri Venkateswara University, Tirupati, Andhra Pradesh. His areas of research interests include Molecular Biology and Molecular Physiology. He received many awards like Andhra Pradesh Meritorious Teacher Award (2010); Andhra Pradesh Scientist Award (2009); Teacher of Excellence Award, S.V. University College of Sciences (2008-09). He is a member of many professional bodies like Andhra Pradesh Akademi of Sciences, National Environmental Science Academy, National Medical Research Council, Singapore and Rockefeller Foundation for Biotechnology Career. To his credit he published his research work in more than 120 articles in national and international journals with high impact factor, attended 40 seminars and conferences, conducted 5 national seminars. Under his able guidance 13 Ph. Ds and 9 M. Phils were awarded to his research scholars. He is having research collaborations with University of California, Davis, USA. In this mentor session he interacted with the participants on the topic "Modern Trends in Molecular Biology". After completion of the mentor session he was felicitated by the faculty members of life sciences departments in the host college.

On the fourth day forenoon of Inspire Internship Science Camp, for the first mentor session we invited Prof. K.M. Tamizhmani, Dept. of mathematics, Central University of Pondichrrey, Pondicherry. Prof. K.M. Tamizhmani is a member of several professional bodies like National Academy of Sciences, Academy of Sciences (F.A.S.Ch.), Chennai, Pondicherry Science Forum, Ramanujan Mathematical Society and Tamilnadu Mathematical Society . He served as Organizing Committee member Indo-French workshop on Integrable Systems, Expert Committee member/referee to Review project proposals DST and President of Pondicherry Science Forum. . To his credit, 5 students got Ph.D. and 22 students got M. Phil. degrees under his guidance Prof. Tamizhmani has profound research contribution. His research outcomes were published in 79 refereed journals and were presented in over 90 conferences. He interacted with the participants on the topic "Mathematical modeling". In his talk he involved many of the participants in the discussion. He explained them how to use the mathematical modeling concept by the researchers and students when it is required. He

Mentor session 7 on 22/11/2015 by Prof. K. M. Tamizhmani, Central University, Pondicherry

Prof. K. M. Tamizhmani, Central University, Pondicherry; interacting with the participants

used both blackboard and power point presentation for explaining the concepts to the interns using simple techniques. He briefly explained them about the positions can be achieved by them by pursuing their higher studies in mathematics. After completion of the session he was honored by the faculty members of Mathematics department of the host college.

During the fourth day of the programme, the second mentor session was taken by Prof. K. Porsezian, Department of Physics, Pondicherry Central University, Pondicherry. His areas of research interest include Nonlinear Dynamics, Nonlinear Fiber optics, Solitons and Theoretical Physics. To his credit he published 195 research articles in reputed International Journals and published 5 books. Presently he is acting as Member, Project Advisory Committee, Science and Engineering Research Board, Department of Science and Technology(DST), Chairman, SERC School on Nonlinear Dynamics, Department of Science and Technology, Fellow, Indian Academy of Sciences, Bangalore and The National Academy of Sciences, Allahabad , Member, Fund for Improvement of S &T Infrastructure, Department of Science and Technology, Member, DST Planning Committee on Nonlinear Dynamics and Wave Guide Optics Activities in India. He received Ramanna Fellowship from DST, Research Award from UGC, N.S. Satya Murthy Memorial Award, from Indian Physics Association, Anil Kumar Bose Memorial Award from Indian National Science Academy etc. He had completed 19 major and 3 Minor research projects funded by organizations like DST, UGC, CSIR etc. He visited Italy, Denmark, Germany, France, Japan, UK, Poland, Portugal and Russia on his research work. He produced 15 Ph. Ds and 18 M. Techs and 33 M. Phils under his able guidance. He is also having research collaboration with various Universities throughout the globe. In the present DST sponsored Inspire Internship Science Camp, he delivered a lecture on "Optical Fibre Communication: The Past, Present and Future". After discussing the growth and basic aspects of communication, the development of low loss optical fibers, compact and efficient semiconductor lasers operating at room temperatures, he presented a brief outline of the different inventions in optical fibers and their impact on optical fiber communication systems. In his talk Prof. Porsezian spared some of his time to bring awareness among the students about financial support by different funding agencies like DST for those who continue their higher education in the field of research. After completion of the session he was honored by the faculty members of Physics department of the host college.

After the lunch break the participants were attended to their respective allotted laboratories for hands on experimentation sessions on rotation basis. There the faculty

Mentor session 8 on 22/11/2015 by Prof. K. Porsezian, Central University, Pondicherry

Prof. K. Porsezian, Central University, Pondicherry; interacting with the participants

members trained them with their introduction and provided hands on experimentation for the participants in various topics as per the prepared course manuals.

We invited Prof. N. Chandrakumar, Dept. of Chemistry, Indian Institute of Technology, Chennai, as a mentor for the first session on the forenoon of the last day of Inspire Internship Camp. His areas of research interest include Magnetic Resonance Spectroscopy & Imaging, Spatially Resolved Magnetic Resonance, Spin Dynamics, Quantum Information Processing with spin systems. He received many awards like Santhi Swaroop Bhatnagar Award for Chemical Sciences, First CSIR New Idea Fund award, CSIR Young Scientist Award etc. To his credit he authored 3 books, published more than 100 research papers in reputed international journals with high impact factor. He got 7 patents for his scientific inventions. Prof. Chandrakumar delivered a talk on "Multi Disciplinary Research". He suggested that students or researchers not to pursue the subjects individually like Physics, Chemistry, Mathematics, Life Sciences etc. but observe them Science as a whole. He explained how a researcher has to depend on all branches of science with various examples. He also explained them about the system of learning in reputed organizations like IITs. Students were also very much interested to interact with him in academic matters as well as certain aspects related to their career. After completion of the session he was honored by the faculty members of chemistry department of the host college.

After the tea break the last mentor session of the Inspire Internship programme was handled by Dr. Shakeel Ahmed, Director Grade Chief Scientist, National Geographical Research Institute (NGRI), Hyderabad. He was awarded Ph. D with thesis titled "Hydrology & Quantitative Hydrogeology" from Paris School of Mines, France. To his credit he published 2books, contributed for certain chapters in 22 other books. He published more than 100 research papers in international journals with high impact factor. He got a patent for his work on Natural Recharge Estimation from Surface Geological Measurements. He is having scientific collaboration in the field of Geology with Scientists from different parts of the world. He received many awards like National Mineral Award 2006 in Groundwater awarded by the Ministry of Mines, Govt. of India, International Prize for Water Science for the year 2004 awarded by the Cannes Water Symposium, France, MAAS Young Scientist Award for 1996 by the Muslim Association for the Advancement of Science, India, Shared (as Co-author) HS Pareek Award for the best paper published in Jr. Geol Soc. of India during 2009 on coal geophysics and Fellowship of the National Environmental Sciences Academy, New Delhi, 2010. After completion of the session he was honored by the faculty members of the host college.

Mentor session 9 on 23/11/2015 by Prof. Prof. N. Chandra Kumar, IIT, Chennai

Prof. N. Chadrakumar, IIT, Chennai; interacting with the participants

Mentor session 10 on 23/11/2015 by Prof. Shakeel Ahmed, Scientist, NGRI, Hyderabad

Prof. Shakeel Ahmed, Scientist, NGRI, Hyderabad; Interacting with the participants

After the lunch break the participants were attended to their respective allotted laboratories for hands on experimentation sessions on rotation basis. There the faculty members trained them with their introduction and provided hands on experimentation for the participants in various topics as per the prepared course manuals.

During the last day afternoon of the programmme, after lunch break, the hands on experimentation session is limited to 2 hours. After completion of the hands on experimentation session, the students are requested to assemble in the auditorium for valedictory function. We have invited Prof. A. Jayaraman, Director, National Atmospheric Research Laboratory (NARL), Department of Space, Govt. of India, from Gadanki RADAR station, Chittoor (DT), Andhra Pradesh as the Chief Guest for valedictory function of Inspire Internship Science Camp. During the first 15 minutes of the programme he interacted with the participants with his excellent power point presentation. He demonstrated some thought provoking videos in his presentation and asked the students about the concepts behind them. Students were appreciated the presentation and many of them also clarified their doubts with him. The president of the function Dr. G. Ananda Reddy, Principal of the host college delivered his massage to the students. He told them to interact with elders who pursued their higher studies in science research to get awareness about basic sciences and research. Then some of the participants were also shared their experiences in this 5 day Internship Camp. They appreciated the efforts of the organizers for providing excellent mentor sessions, exciting hands on experimentation sessions and very good boarding and lodging facilities throughout the camp. Then the Programme coordinator Dr. G. Giribabu delivered his valedictory massage to the participants. He briefly explained about the funding agencies and financial support provided by various organizations for those who would like to continue their higher studies the field of basic sciences and research by. He explained them about the difference between an IT professional and an academician with some examples. He told that the corporate companies provide money for employees to work for the welfare of the company where as the funding agencies like DST, CSIR, UGC support the young minds to think and to develop the nation. Later the Chief Guest Prof. Jayaraman in his massage suggested the participants to observe the nature and try to think about the science behind every observation. He told that this kind of thinking and discussion with friends, elders and seniors help them to know the facts and to develop scientific attitude. Then the participants received their participation certificates and a science kit from the Chief Guest. This science kit provided to all the participants include a digital multimeter with probes, a 9V

Chief Guest, Valedictory Function, Prof. A. Jayaraman, Director, NARL; addressing the participants

Chief Guest, Valedictory Function, Prof. A. Jayaraman, Director, NARL; Interacting with the participants

Participant sharing his experiences during the 5 day camp on the valedictory day

Participant sharing her experiences during the 5 day camp on the valedictory day

Dr. G. Ananda Reddy, Principal of the college, addressing the participants on the valedictory function

Dr. G. Giribabu, Programme Coordinator, valedictory massage to the participants

Distribution of Science Kits and Participation Certificates by Prof. A. Jayaraman, Director, NARL

Distribution of Science Kits and Participation Certificates by Prof. A. Jayaraman, Director, NARL

Felicitation to the Chief Guest Prof. A. Jayaraman, By the Principapal & Programme Coordinator

Distribution of Science Kits and Participation Certificates by the Vice Principal, Dr. M. Sudhakara Reddy

battery and various electrical and electronic component like resistors, capacitors, diodes, transistors, LEDs, Integrated Chips(ICs) etc. The Chief Guest appreciated the programme coordinator for providing this kind of science kit for the students because they can practically apply their theoretical knowledge by measuring and checking the parameters of electrical and electronic gadgets in their home and college. Due to time constraint the Chief Guest distributed certificates and science kits to some of the students and left the function after receiving felicitation from the faculty members. Later the programme coordinator invited each and every faculty member of the college to distribute the certificates and science kits to all the students. After completion of the distribution of certificates to the students, coordinator honored the Principal of the College for encouraging to conduct this programme, Vice Principal of the college for his help throughout the programme, all in-charges of science departments in the host college for their cooperation in conducting the hands on experimentation sessions and all managements of various junior colleges for motivating their students to participate in this programme with mementoes. Finally the programme was ended with the national anthem.

- **Hard copies of Acknowledgement for Science kit by the participants are enclosed along with this report.**
- **Soft copies of Acknowledgement for Science kit by the participants are enclosed along with this report in the external hard disc.**