



ज्ञान-विज्ञान विमुक्तये

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UGC-HRDC News is the half-yearly publication of the Human Resource Development Centre (Erstwhile the Academic Staff College), University of Kerala Thiruvananthapuram. This publication is meant for maintaining a constant dialogue between the HRDC on the one hand and the University Departments, Affiliated Colleges and Alumni of the HRDC on the other. Through this Newsletter we hope to establish meaningful contacts with a wider audience interested in the cause of higher education in this country. We submit the HRDC News to the academic community and welcome their valuable suggestions about its form and content.

LOCAL PROGRAMME PLANNING AND MANAGEMENT COMMITTEE (LPPMC) OF HRDC

1. **Chairman**
Dr. P. K. Radhakrishnan
Vice-Chancellor, University of Kerala
2. **Member Secretary**
Dr. S. V. Sudheer
UGC-HRDC, University of Kerala
3. **UGC – Nominee**
Dr. (Ms.) Meenakshi Gopinath
(Former Principal, LSR College, New Delhi),
A-86, Nizamuddin East, New Delhi
4. **Four Senior Professors**
 1. **Dr. T. S. Anirudhan** (Dept. of Chemistry, University of Kerala)
 2. **Dr. G. Padma Rao** (Dept. of Malayalam, University of Kerala)
 3. **Prof. Lingaraj Gandhi** (Director, UGC-HRDC, Mysore University)
 4. **Prof. S. Kannan** (Director, UGC-HRDC, Madurai Kamaraj University)
5. **Registrar**, University of Kerala
(Ex-officio) – Special Invitee
6. **Finance Officer**, University of Kerala
(Ex-officio) – Special Invitee

From The Editor's Desk



Greetings from HRDC!

The 20th Century gave much emphasis to education and was referred as the education Century. Being a catalyst to socio-economic growth, national prosperity and advancements including science and technology severely slant on Education. Education sector has to bear multi faceted challenges in coping with innovations and quality sustenance. The prominence of traditional system of education cannot be mitigated as India is one among the counties with expansive mass educational needs. The 21st century aims to promote borderless education capable of facing all the challenges posed by global system. Higher Education Institutions should turn up to be centres of excellence with qualified, skilled and trained teachers along with state of the art facilities.

The capacities and qualities of human capital invested in higher education has to be refined polished and fine turned to capacitate moulding of brighter young minds. The humble but most prominent objective of the HRDC is to effectuate this task.

Hearty thanks to all.

Dr. S. V. Sudheer
Professor Director

143rd ORIENTATION PROGRAMME **[From 22-04-2015 To 19-05-2015]**

The 143rd Orientation Programme (IT-Oriented) began on 22.04.2015 at the UGC-HRDC, University of Kerala. The participants were given a warm welcome by Dr. S. V. Sudheer, Director, UGC-HRDC, University of Kerala. They were briefed on the course content and the expected outcome of the programme. The programme was formally inaugurated after the briefing. The afternoon session was an ice-breaking session which was led by Dr. Sonny Jose, Associate Professor of Social Work, Loyola College of Social Sciences, Trivandrum.

For the smooth conduct of the programme, Dr. N. Madhavan, Assistant Professor, Department of Physical Education, Sree Ayyappa College, Chengannur and Ms. Rajalakshmi. R, Assistant Professor, Department of Economics, U.C. College, Aluva were selected as the convenors of the programme.

The following topics were covered in the programme.

Topic 1: Ice Breaking Session, Resource Person: Dr. Sonny Jose, **Topic 2: Stress Management, Resource Person:** Dr. Dev Das Menon, **Topic 3: Information Literacy Skills, Resource Person:** Dr. K. P. Vijayakumar, **Topic 4: Value Based Education, Resource Person:** Dr. Diankarlal Thavamony, **Topic 5: Spark Yourself, Resource Person:** Sri. Suresh Kumar, **Topic 6 : Introduction to Computers, Resource Person:** Mr. Shibu Albert, **Topic 7 : International Relations, Resource Person :** Ambassador T. P. Sreenivasan, **Topic 8 : Reflective Teaching, Resource Person:** Dr. Rosamma Philip, **Topic 9 : Disaster Management, Resource Person:** Dr. Thara K. G, **Topic 10 : Effective Communication, Resource Person:** Dr. N. Sankaran, **Topic 11 : Life Styles, Resource Person:** Dr. Sivasankaran, **Topic 12: Self awareness and Counseling, Resource Person:** Fr. Joye James, **Topic 13 : Cyber Crimes, Resource Person:** Sri. N. Vinayakumaran Nair, **Topic 14: Health and Wellness, Resource Person:** Dr. Usha S. Nair, **Topic 15: Service Rules, Resource Person:** Sri. Natesan Asary, **Topic 16: Music in Daily Life, Resource Person:** Dr. B. Arundhathi, **Topic 17: History of Education, Resource Person:** Dr. Alexander Jacob IPS, **Topic 18: Reflective Teaching Analysis, Resource Person:** Dr. Theresa Susan. A, **Topic 19: Fire & Rescue in Disaster Management, Resource Person:** Sri. Prathap Kumar.

A one day field trip to Neyyar Dam and Kovalam was arranged which created a feeling of oneness among

the participants. All the participants presented their project work with the help of power point slides. The presentations were evaluated by Dr. P. P. Ajayakumar, Dr. A. Ganga Prasad, Dr. Resia Beegam and Dr. K. G. Gopchandran. The course was successfully completed on 19.05.2015 with evaluation and feedback sessions followed by a valedictory function in which Dr. S. V. Sudheer, Director, UGC-HRDC distributed the certificates to the participants.

XVII REFRESHER COURSE IN HUMAN RIGHTS **[From 06.05.2015 to 26.05.2015]**

The 17th refresher course in Human Rights was held by UGC- Human Resource Development Centre from 6th May 2015 to 26th May 2015. The course was inaugurated by Dr. Babu Paul IAS, Former Chief Secretary, Govt. of Kerala. He emphasized the importance of seeing Human Rights in a multidisciplinary angle and encouraged the participants to develop projects incorporating Human Rights in various specialization. The Honorable Director of the by UGC- Human Resource Development Centre, Dr. S. V. Sudheer briefed the participants on the details of the course. The coordinator of the course was Dr. J. Prabhash. He conducted the Ice- breaking session. Dr. Joju John, Department of Education, Mar Theophilus Training College, Nalanchira and Dr. Nisha Vikraman, Department of Home Science, St. Theresa's College, Ernakulam, were selected as the convenors of the course respectively.

The course covered various topics in Human Rights. The Topics are as following: **Topic 1: Philosophical Foundations of Human Rights, Resource Person:** Prof. G. Haragopal, **Topic 2: Police and Human Rights, Resource Person:** Dr. P. J. Alexander, **Topic 3: Human Rights Movements in India , Resource Person:** Prof. G. Haragopal, **Topic 4: Human Rights Values and Judicial Process, Resource Person:** Dr. Manoj Krishna, **Topic 5: Time Management, Resource Person:** Dr. V. Reghu, **Topic 6: Human Rights at the UN, Resource Person:** Ambassador T. P. Sreenivasan, **Topic 7: Cultural Relativism and Human Rights, Resource Person:** Dr. Josukutty, **Topic 8: Science, Society & Human Rights, Resource Person:** Prof. A. Jayakrishnan, **Topic 9 : Human Rights : Concept and Realisation, Human Rights in the Indian Constitution, Resource Person:** Prof. N. K. Jayakumar, **Topic 10: Human Rights in Indian Documentary Films, Resource Person:** Dr. C. S. Venkateswaran, **Topic 11: Rights of Refugees : A case of Palestinians in Lebanon, Resource Person:** Dr. Sajad Ibrahim, **Topic 12: Cyber Crimes, Resource**

Person: Sri. N. Vinayakumaran Nair, **Topic 13: Human Rights as Value**, Resource Person: Dr. K. C. Sunny, **Topic 14: API Score**, Resource Person: Dr. S. V. Sudheer, **Topic 15: War and Humanitarian Intervention**, Resource Person: Dr. Shaji Varkey, **Topic 16: Stress Management**, Resource Person: Dr. Dev Das Menon, **Topic 17: Panel Discussion on Media and Human Rights**, Resource Person: Sri. Gouridasan Nair, Sri. Sebastian Paul, Sri. M. G. Radhakrishnan, **Topic 18: RTI: A Human Rights Perspective**, Resource Person: Dr. K. B. Kempe Gowda, **Topic 19: Universal Declaration of Human Rights**; Resource Person: Dr. R. Suresh, **Topic 20: Rights of persons with disability**, Resource Person: Dr. Manju S. Nair, **Topic 21: Human Rights and Prisoners**, Resource Person: Justice K. T. Thomas, **Topic 22: Panel Discussion on Environment and Human Rights**, Resource Person: Dr. Biju Kumar, Sri. C. R. Neelakantan, Sri. K. Ramachandran, **Topic 23: History of Human Rights**, Resource Person: Dr. Alexander Jacob IPS, **Topic 24: Health and Wellness**, Resource Person: Dr. Usha S. Nair, **Topic 25: Human Rights in a Multicultural World**, Resource Person: Dr. G. Gopakumar

The participants gave their feedback on the course in the valedictory session. They were highly satisfied with the course content and the way the resource persons presented their deliberations. The panel discussion sessions were very informative and gave the participants opportunity to voice their apprehensions related to Human Rights in media and environment. The topic 'History of Human Rights', 'Time Management' and 'Cyber Crimes' were highly appreciated. The participants suggested that topics like 'Genocide' and 'Euthanasic' could also be included in the course. They were filled with gratitude and appreciation for Director of the UGC-Human Rights Development Centre, Dr. S. V. Sudheer, who led the team to its remarkable perfection by his dynamic personality gifted with administrative and interpersonal skills.

SPECIAL SUMMER SCHOOL PROGRAMME [From 28.05.2015 To 17.06.2015]

The Special Summer School Programme of UGC-Human Resource Development Centre, University of Kerala commenced on 28th May 2015. Dr. S. V. Sudheer, Director, UGC-HRDC, briefed the participants on the objectives of the programme. The ice breaking session was handled by Dr. Sony Jose. Dr. Ambeesh Mon S. Assistant Professor, Institute of Management and Technology Punnappara, and Dr. Sreedevi E. P., Assistant

Professor, Department of Statistics, Carmel College, Mala, were selected as convenors of the programme.

The following themes were discussed in the programme: **Topic 1: Positive Thinking**, Resource Person: Mrs. Anuja Nair, **Topic 2: Time Management**, Resource Person: Dr. V. Reghu, **Topic 3: Physiology of Professional Empowerment**, Resource Person: Dr. K. Gireesh, **Topic 4: Food Safety**, Resource Person: Sri. G. Gopakumar, **Topic 5: Research Methodology**, Resource Person: Dr. Simon Thattil, **Topic 6: Service Rules**, Resource Person: Sri. Natesan Asary, **Topic 7: Performance Based Appraisal System and Academic Performance Indicators**, Resource Person: Dr. S. V. Sudheer, Director, UGC – HRDC. **Topic 8: Stress Management**, Resource Person: Dr. Chandra Prasad Sreedhar, **Topic 9: Cyber Crimes**, Resource Person: Sri. N. Vinayakumaran Nair, **Topic 10: Value Based Education**, Resource Person: Dr. Dinakarlal Thavamony, **Topic 11: Health and Wellness**, Resource Person: Dr. Usha S. Nair, **Topic 12: Water Resource Management**, Resource Person: Dr. E. Shaji, **Topic 13: Interactive Session**, Resource Person: Dr. S. V. Sudheer, Director, UGC – HRDC, **Topic 14: Fire and Rescue Services in Disaster Management**, Resource Person: Sri. Prathap Kumar, **Topic 15: Sustainable Energy**, Resource Person: Dr. R.V.G. Menon, **Topic 16: Disaster Management**, Resource Person: Dr. K. G. Thara, **Topic 17: Human Rights**, Resource Person: Dr. Padma Ramakrishnan, **Topic 18: Class Room Strategies**, Resource Person: Dr. S. V. Sudheer, Director, UGC – HRDC, **Topic 19: Reflective Teaching**, Resource Person: Dr. Rosamma Philip, **Topic 20: History of Education**, Resource Person: Dr. Alexander Jacob IPS. **Topic 21: Pesticides and Residues in Food and their Impact**, Resource Person: Dr. Thomas Biju Mathew, **Topic 22: Digital Learning**, Resource Person: Dr. Senthil Nathan, **Topic 23: Yoga for Health and Prevention of Diseases**, Resource Person: Dr. S. Vasudevan, **Topic 24, 25, 26: Project Presentations and Evaluations**. Resource Persons: Dr. P. P. Ajayakumar, Dr. Resia Beegam and Dr. K. G. Gopchandran.

The participants went on a field visit to Poovar, Vizhinjam and Kovalam and came back refreshed after a jolly good boat ride. The participants were highly appreciative of the sessions conducted and this was visible from the feedback they gave. They were all of the view that the UGC-HRDC lived up to their expectations and were very sure that it would maintain its number one position for many years to come. They

thanked Dr. S. V. Sudheer for the dexterous execution of the programme.

REFRESHER COURSE IN COMMERCE AND BANKING [From 03.06.2015 To 23.06.2015]

The Refresher Course in Commerce and Banking began on 03.06.2015 at the UGC-HRDC, University of Kerala. The course started with the introductory remarks and briefing of the course by the Director. The allotment of project work and discussions were done by the course co-ordinator Dr. K. S. Chandrashekar, Professor & Director School of Business Management and Legal Studies, University of Kerala, Trivandrum. Dr. Binu. R, Assistant Professor, Department of Commerce, Govt. College, Kottayam & Sr. Ligy V. K, Assistant Professor, Department of Commerce, St. Joseph's College, Irinjalakkuda were selected as the Convenors of the course respectively.

The following topics were covered in the programme:
Topic 1: Managerial Excellence, Resource Person: Dr. C. V. Jayamani, **Topic 2: Credit Management**, Resource Person: Dr. K. Kumara Pillai, **Topic 3 : Branding and ambush marketing**, Resource Person: Dr. Johney Johnson, **Topic 4 : Case Studies in Finance**, Resource Person: Dr. M. Selvam, **Topic 5: Alternative delivery channels in banking**, Resource Person: Sri. J. Gregory Paul, **Topic 6: Time Management**, Resource Person: Dr. V. Reghu, **Topic 7: IPR**, Resource Person: Dr. V. Ajith Prabhu, **Topic 8: Money Markets**, Resource Person: Dr. T. Asokan, **Topic 9: Disciplinary procedures and Domestic enquiry**, Resource Person: Sri. Yasodharan, **Topic 10 : E-finance**, Dr. G. Simon Thattil, **Topic 11 : Application of statistical methods with SPSS**, Resource Person: Dr. P. N. Harikumar, **Topic 12 : An overview of international finance**, Resource Person: Dr. S. Madhavan, **Topic 13 : Corporate Governance**, Resource Person: Dr. K. P. Muraleedharan, **Topic 14 : PPP and Project financing**, Resource Person: Dr. C. Jayashankar Prasad, **Topic 15 : Business Analytics**, Resource Person : Dr. M. Senthil, **Topic 16 : Hedging Risk through Financial Derivatives**, Resource Person : Dr. S. Kevin, **Topic 17 : Health & Wellness**, Resource Person: Dr. Usha S. Nair, **Topic 18 : BASEL Norms**, Resource Person: Dr. R. Vasanthagopal, **Topic 19 : GST**, Resource Person: Dr. N. Ramalingam, **Topic 20 : Stress Management**, Resource Person: Dr. Dev Das Menon, **Topic 21 : Contemporary Business Environment**, Resource Person: Dr. Jacob Thomas DGP, **Topic 22 : Research Proposals**,

Resource Person: Dr. G. Raju, **Topic 23 : R software**,
Resource Person: Mr. Somasekharan Pillai M.

The programme was successfully completed on 23.06.2015 with evaluation and feedback sessions followed by valedictory function in which Dr. Sarngadharan, Former Professor and Head Dept. of Commerce, University of Kerala delivered the valedictory address and distributed certificates of participants.

REFRESHER COURSE IN LIFE SCIENCES [From 25.06.2015 To 15.07.2015]

The Refresher Course in Life Sciences began on 25.06.2015 at the UGC-HRDC, University of Kerala. Dr. S. V. Sudheer, Director, UGC-HRDC, delivered a warm welcome to the participants. The course was co-ordinated by Dr. P. M. Radhamany, Associate Professor & Head, Department of Botany, University of Kerala. Dr. Saju Abraham, Assistant Professor, Department of Botany, Newman College, Thoduuzha, and Ms. Jaya Kuruvilla, Assistant Professor, Department of Botany, St. Xavier's College for Women, Aluva, were selected as the convenors of the course respectively.

The following topics were covered in the programme:
Topic 1: Population & Evolutionary Genetics, Resource Person: Dr. Ashalatha S. Nair, **Topic 2: Stress Management**, Resource Person: Dr. Dev Das Menon, **Topic 3: Time Management**, Resource Person: Dr. V. Reghu, **Topic 4: Science on Biological Waste Water Treatment**, Resource Person: Dr. B. Krishnakumar, **Topic 5 : Molecular techniques based on proteins interaction**, Resource Person: Dr. Jayakumaran Nair. A, **Topic 6 : Wet land biodiversity conservation and management**, Resource Person: Dr. K. G. Padmakumar, **Topic 7 : Biodiversity crisis and the way forward**, Resource Person: Dr. A. Biju Kumar, **Topic 8 : Introduction to Mass Spectroscopy & Protein Identification**, Resource Person: Dr. Abdul Jaleel, **Topic 9 : Insights of spindle chromosome interaction in mitosis: Perspectives of the past and present**, Resource Person: Dr. Tapas Manna, **Topic 10 : Biomedical Engineering**, Resource Person: Dr. Annie John, **Topic 11 : Bioinformatics**, Resource Person: Dr. S. Subramaniyan, **Topic 12 : Engineering uniparental genome elimination in plants**, Resource Person: Dr. Ravi Maruthachalam, **Topic 13 : Delivering healthy living through safe food from farm to fork**, Resource Person: Dr. K. Ashok Kumar, **Topic 14 : Mass extinction in the history of the earth**, Resource Person: Dr. S. N. Kumar, **Topic 15 : New**

Biotechnology-Revolution in understanding new style, Resource Person : Dr. G. M. Nair, ***Topic 16 : Ethno Pharmacological Investigations in JNTBGRI***, Resource Person : Dr. P. G. Latha, ***Topic 17 : Diabetic Hypertension and Glucose Signaling***, Resource Person: Dr. P. G. Biju, ***Topic 18 : Digital Learning***, Resource Person: Dr. Senthilnathan, ***Topic 19 : Vector borne diseases : a persisting threat in the 21st century***, Resource Person: Dr. R. Rajendran, ***Topic 20 : Health & Wellness***, Resource Person: Dr. Usha S. Nair, ***Topic 21 : Bio pesticides***, Resource Person: Dr. C. A. Jayaprakas, ***Topic 22 : Life style diseases***, Resource Person: Dr. Sivasankaran, ***Topic 23 : Mysteries of the Universe***, Resource Person: Dr. Prince P.R., ***Topic 24 : Instrumentation***, Resource Person: Dr. E. A. Siril, ***Topic 25 : Molecular markers in plant Genome analysis with reference to rubber (Hevea brasiliensis)***, Resource Person: Dr. T. Saha, ***Topic 26: Biostatistics***, Resource Person: Sri. Somasekharan Pillai, ***Topic 27: Diversity of Algae***, Resource Person: Dr. K. Padmakumar.

As part of the programme a one day field trip was arranged to TBGRI, Palode, which was indeed a memorable and enjoyable trip. The programme concluded on 15.07.2015 with an evaluation and feedback session. The participants expressed their opinion about the programme, its organization, content and administration and also gave valuable suggestions for its further improvement.

REFRESHER COURSE IN ENGLISH LANGUAGE AND MODERN LITERATURE [From 01.07.2015 To 21.07.2015]

The UGC-HRDC, University of Kerala successfully conducted the XXXX Refresher Course in English Language and Modern Literature from 01-07-2015 to 21-07-2015. On the opening day, Prof. P.P. Ajayakumar, Co-ordinator of the course, welcomed all the participants, especially those who had come from outside the state. Out of the 63 participants 31 were from other states. The Co-Ordinator briefed the participants about the Course and its guidelines. He also conducted an ice-breaking session.

The Honourable Director of the UGC- HRDC, Dr. S.V. Sudheer, had a keen interactive session with the participants, where he talked about the changing contours of the teaching/learning experience. His discussion of the PBAS (Performance Based Appraisal System) and API Scores (Academic Performance Indicators) was highly informative and lucid. The Director, who surprised

many with his remarkable memory of people and names, spent quality time with the participants responding to their academic and non-academic queries. Dr. Jibu Mathew George, Assistant Professor, Dept of Indian & World Literatures, The English and Foreign Languages University, Hyderabad and Ms. Sruti Ramachandran, Assistant Professor, Dept of English, Government College for Women, Thiruvananthapuram were chosen as Conveners of the course respectively.

The following areas were discussed and deliberated during the course: ***Topic 1: Teaching Grammar***, Resource Person: Dr. Lal. C. A, ***Topic 2: Introduction to Film Studies***, Resource Person: Dr. C. S. Venkiteswaran, ***Topic 3: Space and Modern Literature***, Resource Person: Dr. Bennet, ***Topic 4: Academic Writing Skills***, Resource Person: Dr. Vijayakumar K.P. ***Topic 5: Postcolonial Theory and Literature***, Resource Person: Dr. Joseph Albert, ***Topic 6: Group Discussion***, Moderator: Prof. P.P. Ajaykumar, ***Topic 7: Cyber Crime***, Resource Person: N. Vinayakumaran Nair, ***Topic 8: Indian Theories of Translation***, Resource Person: Dr. Sreedevi K. Nair, ***Topic 9: Time Management***, Resource Person: Dr. V. Reghu, ***Topic 10: Modern Poetry***, Resource Person: Dr. N. Ramachandran Nair, ***Topic 11: Performance-Based Appraisal System (PBAS) and Academic Performance Indicators (APIs)***, Resource Person: Dr. S.V. Sudheer, ***Topic 12: Communicative Language Teaching***, Resource Person: Dr. Bhaskaran Nair, ***Topic 13: Stress Management***, Resource Person: Dr. Gireesh, ***Topic 14: Introduction to Canadian Literature***, Resource Person: Dr. B. Hariharan, ***Topic 15: Modernism, Politics and the Theatre of the Marginalised***, Resource Person: Prof. P.N. Prakash, ***Topic 16: Painting and Literary Modernism***, Resource Person: Dr. C.S. Jayaraman, ***Topic 17: Non-Fiction Trajectories: Reconstellating Literature***, Resource Person: Prof. Gopalakrishnan K, ***Topic 18: Myth and Literature***, Resource Person: Dr. Joseph Doreiraj, ***Topic 19: Binarisms in ELT***, Resource Person: Dr. Joseph Doreiraj, ***Topic 20: Modernism and Modernity***, Resource Person: Dr. P.P. Raveendran, ***Topic 21: Culture Studies***, Resource Person: Dr. M.V. Narayanan, ***Topic 22: Queer Theory***, Resource Person: Dr. Murali, ***Topic 23: James Joyce and Modern Fiction***, Resource Person: Dr. Chithra Panikker, ***Topic 24, 25, 26 & 27: Project Presentations and Evaluation***, Resource Person: Prof. P.P. Ajaykumar.

The participants thoroughly enjoyed the trip to Poovar and Kovalam navigating through the verdant greens and the blue sea. As the trip was scheduled at the beginning

of the course, the participants could create and sustain a wonderful rapport with each other. Responses to the feedback questionnaire were positive as participants appreciated the currency and effectiveness of the topics. Listening to the eminent resource persons was inspiring, to say the least. The course provided new insights, new methodologies and jogged old memory. The resources gained at the course will definitely define the classroom strategies of the participants. The patience and geniality of Prof. P.P. Ajaykumar was lauded by all participants. They thanked him for his unstinted support and guidance. Dr. S.V. Sudheer and the entire staff of the UGC-HRDC were appreciated by all participants for their unfailing commitment to excellence. Dr. S.V. Sudheer's sharp administrative acumen and unassuming attitude will be remembered by all. The participants thanked him for the support that he and his team had extended to them.

144th ORIENTATION PROGRAMME [From 16.07.2015 To 12.08.2015]

The 144th Orientation Programme was conducted from 16th July 2015 to 12th August 2015 by the UGC-Human Resource Development Centre, University of Kerala. In his enlightening inaugural address, Dr. S.V. Sudheer, Director, UGC-HRDC, highlighted the objectives of the 28 day programme to enrich the participants with new teaching skills and methodology. He pointed out the challenges in Higher Education and assured that the Programme would enable the participants to face the challenges in the field. The ice breaking session was effectively handled by Dr. Suresh Kumar. Mr. Prasad Rajendran, Assistant Professor of Geography, University College, Thiruvananthapuram and Ms. Manju Anna Varghese, Assistant Professor of Chemistry, Govt. College, Attingal, were selected as the Convenors of the Programme.

The Programme comprised sessions on the following topics: **Topic 1: Information Literacy Skills**, Resource Person: Dr. K. P. Vijayakumar, **Topic 2: Stress Management**, Resource Person: Dr. Dev Das Menon, **Topic 3: Introduction to Computers - An Informative Discussion on the basis of Computers, Hands on training - Microsoft word, Microsoft Excel, Microsoft Power Point**, Resource Person: Mr. Shibu Albert, **Topic 4: Time Management**, Resource Person: Dr. V. Reghu, **Topic 5: Skill Development**, Resource Person: Dr. S. V. Sudheer, **Topic 6: History of Education**, Resource Person: Dr. Alexander Jacob, **Topic 7: Reflective Teaching**, Resource Person: Dr. Rosamma Philip, **Topic 8: Research Methodology**, Resource Person:

Dr. Simon Thattil, **Topic 9: Pesticides and Residues in food**, Resource Person: Dr. Thomas Biju Mathew, **Topic 10: Interactive Discussion**, Resource Person: Dr. S. V. Sudheer, **Topic 11: Professional Excellence**, Resource Person: Dr. Santhosh V. M. **Topic 12: Cyber Crimes**, Resource Person: Mr. Vinayakumaran Nair, **Topic 13: Value Based Education**, Resource Person: Dr. Dinakaral Thavamony, **Topic 14: Fire and Rescue Services in Disaster Management**, Resource Person: Sri. Prathap Kumar, **Topic 15: Health and Wellness**, Resource Person: Dr. Usha. S. Nair, **Topic 16: Water Resource Management**, Resource Person: Dr. Shaji. E, **Topic 17: Disaster Management**, Resource Person: Dr. K. G. Thara, **Topic 18: Digital Learning**, Resource Person: Dr. Senthil Nathan, **Topic 19: Food Safety**, Resource Person: Dr. Gopakumar, **Topic 20: Reflective Teaching Analysis**, Resource Person: Dr. Theresa Susan. A, **Topic 21: Service Rules**, Resource Person: Sri. Natesan Asary, Sessions 22, 23, 24: Project Presentation by the Participants for evaluation, Resource Persons: Dr. K. P. Vijayakumar, Dr. P. P. Ajayakumar & Dr. Mini. S.

The participants went on an enjoyable field trip to Poovar Island which was punctuated with laughter, fun and frolic. The Valedictory session of the Programme was held on **12th August 2015**. Feedback from the participants reflected the success of the Programme conducted.

XXXVth REFRESHER COURSE IN MATHEMATICS [From 04.08.2015 To 24.08.2015]

The UGC-HRDC, University of Kerala, conducted the 35th Refresher Course in Mathematics from 04.08.2015 to 24.08.2015. Dr. S. V. Sudheer, the Honourable Director inaugurated the course. In his speech, he observed that the activities and the efforts of HRDC are oriented towards enhancing the academic standards of teaching fraternity so as to make their contributions more meaningful, productive and result oriented. The course Co-ordinator Dr. G. Suresh Singh briefed the participants on the details of the course. Mr. S. Vinod, Assistant Professor, Govt. College for Women, Thiruvananthapuram, and Dr. S. S. Sandhya, Assistant Professor, Sree Ayyappa College for Women, Chunkankadai, were selected as the convenors of the course respectively. The ice-breaking session was conducted by Dr. Sonny Jose, Faculty of Loyola College of Social Sciences, Thiruvananthapuram.

The following were the topics discussed: **Topic 1: Galois Theory**, Resource Person : Prof. A. R. Rajan,

Topic 2: Differential equations and Applications, Resource Person : Dr. Raju K. George, Topic 3 : Error Correcting Codes, Resource Person : Dr. N. Sreedharan, Topic 4: Topology, Resource Person : Dr. P. T. Ramachandran, Topic 5: Finite Simple Groups, Resource Person : Prof. T. Tamizh Chelvam, Topic 6 : Performance Based Appraisal System, Resource Person : Dr. S. V. Sudheer, Topic 7: Order Statistics, Resource Person : Dr. Yageen Thomas, Topic 8: Bi Topology and Nano Topology, Resource Person : Dr. Lellis Thivakar, Topic 9: Linear Transforms, Resource Person : Dr. P. G. Romeo, Topic 10: Network Analysis, Resource Person: Dr. K. Satheesh Kumar, Topic 11: Distance in Graphs, Resource Person : Dr. D. Kala, Topic 12: Differential equations and its Applications, Resource Person : Dr. T. R. Sivakumar, Topic 13: Real and Complex Analysis, Resource Person : Dr. E. Krishnan, Topic 14: Fuzzy Sets, Resource Person : Dr. Mary George, Topic 15: Applications of Fuzzy Graphs, Resource Person: Dr. A. Sunny Kuriakose, Topic 16: Approximation Theory, Resource Person: Dr. C. Jaya Sree, Topic 17: Health & Wellness, Resource Person : Dr. Usha S. Nair.

Project Presentation by the participants was evaluated by Dr. G. Suresh Singh. The participants went on a field Trip to Zoo, Museum and Planetarium on 22.08.2015, which brought them closer. The participants celebrated Onam in a grand manner with various activities and special Onasadhya was also arranged on the session.

The feedback on the course taken from the participants testified to the fact that the care and the interest shown by the Director Dr. S. V. Sudheer made the participants feel at home throughout the course. They gave their suggestions to improvement. They placed on record their gratitude for the course co-ordinator who had been very supportive. The course came to a successful culmination on 24.08.2015 with a valedictory function.

**SHORT-TERM INTERACTION PROGRAMME FOR
PH.D STUDENTS
[From 17.08.2015 To 21.08.2015]**

The programme commenced with the inaugural talk by the Director, Dr. S. V. Sudheer, in which he briefed about the aims, objectives, outline and overview of the programme. Post-lunch sessions were handled by Dr. K. P. Vijayakumar, who gave an eloquent discourse on Literature Reviewing in the present day context. Also he addressed the major issues that a researcher comes across while reviewing literature.

The second day of the programme started with an interactive session by Dr. S. V. Sudheer, Hon. Director, elaborating on the importance of Research Mind and Attitude. He touched upon almost all aspects of research, ranging from the need to set rational objectives to time management. The afternoon sessions were handled by Dr. Simon Thattil, who introduced the scholars to the various approaches to research design. Dr. Madhu S. Nair opened the third day sessions with IT Applications in Research. Vital information regarding journals and online materials were dealt with quite elaborately. Dr. Dinesan Koovakkai handled the afternoon session imparting knowledge on Open Access Resources. The fourth day started with a feedback session by Dr. K. P. Vijayakumar. The academic sessions started with Dr. C. R. Prasad who dealt with Research Methodologies in Languages and Literature. The post-lunch sessions were handled by Shri. V. Shriram who took us into the world of Style Manuals and Reference Management. The highlight of the last day of the programme was the session on Student-Guide Relationship by Dr. Dev Das Menon. Dr. Simon Thattil concluded the sessions with his guidelines on Writing the Research Report.

The five-day programme was actively attended by the research scholars from various disciplines. The relevance of the course is very much evident from the comments in the feedback obtained from the participants. They appreciated the whole-hearted efforts of Dr. S. V. Sudheer in successfully coming up with such innovative courses and bringing in brilliant resource persons to guide research scholars. They also thanked the staff of UGC-Human Resource Development Centre for their cooperation and hospitality.

**145th ORIENTATION PROGRAMME
[From 03.09.2015 To 30.09.2015]**

The 145th IT Orientation Programme conducted by the UGC-Academic Staff College, University of Kerala, Kariavattom, commenced on 3rd September, 2015. The programme was inaugurated by Dr. S. V. Sudheer, Director, Academic staff College. In his inaugural address, he enlightened the participants about the various skills; quality, ability and mentoring capacity a teacher ought to possess. The course coordinator Harikumar addressed the gathering and explained the modus operandi of the programme. Dr. Santhoshkumar. T. Asst. Professor, Regional Agricultural Research Station, Pillicode, Kerala, Agricultural University and Geetha Ramesh, Asst. Professor, College of Agriculture, Vellayani, were selected as conveners of the

programme. The ice-breaking session was very interactive and interesting and was effectively conducted by the conveners in an outdoor environment.

The following topics were covered in the programme:
Topic 1: Stress Management, Resource Person: Dr. Dev Das Menon, **Topic 2: Food Safety**, Resource Person: Sri. Gopakumar, **Topic 3: Introduction to Computers, Microsoft Word, Excel, Powerpoint, & Internet**, Resource Person: Mr. Shibu Albert, **Topic 4: Open Access Resources in Research**, Resource Person: Dr. Dinesan Koovakkai, **Topic 5: Reflective Teaching**, Resource Person: Dr. Rosamma Philip, **Topic 6: Information Literary Skills**, Resource Person: Dr. K. P. Vijayakumar, **Topic 7: Research Methodology**, Resource Person: Dr. Simon Thattil, **Topic 8: Cyber Crimes**, Resource Person: Sri. Vinayakumaran Nair, **Topic 9: Time Management**, Resource Person: Dr. V. Reghu, **Topic 10: Mysteries of the Universe**, Resource Person: Dr. Prince P. R., **Topic 11: Self awareness and Counselling**, Resource Person: Fr. Joye James, **Topic 12: Health and Wellness**, Resource Person: Dr. Usha S. Nair, **Topic 13: Fire and Rescue and Disaster Management**, Resource Person: Sri. Prathap Kumar, **Topic 14: Interpersonal Relationship**, Resource Person: Dr. Justin Padamadan, **Topic 15: Value Based Education**, Resource Person: Dr. Dianakarlal Thavamony, **Topic 16: Environment and climate change**, Research Skills, Resource Person: Dr. Elizabeth, **Topic 17: Service Rules**, Resource Person: Sri. Natesan Asary. Power Point Presentation evaluation was done by Dr. P. P. Ajayakumar, Dr. A. Ganga Prasad, Dr. Resia Beegam.

The course came to a successful culmination on 30.09.2015. An evaluation of the programme was conducted through feedback questionnaires and interactive discussions. The participants expressed their views regarding the programme and were of the opinion that it improved the teaching, interactive skills, attitudes and knowledge. Dr. S. V. Sudheer, the Director and the office staff ensured the execution of the programme with perfect finesse. The participants expressed their deep appreciation for the excellent conduct of the course and placed on record their gratitude towards the course coordinator and his team for their support throughout the course. The 28 day long orientation Programme was a rich learning experience and all participants expressed their gratitude to course Director, Dr. S. V. Sudheer for providing a unique academic experience throughout the programme.

REFRESHER COURSE IN MALAYALAM LANGUAGE AND MODERN LITERATURE [From 09.09.2015 To 29.09.2015]

The UGC sponsored 37th Refresher Course in Malayalam Language & Modern Literature was held from 9th September to 29th September 2015. Dr. S. V. Sudheer, Director, UGC-HRDC, introduced the course to the participants. In his speech, he highlighted the importance of mother tongue. The course was formally inaugurated by Dr. S. V. Sudheer. The Co-ordinator of the course was Dr. G. Padma Rao, HOD of Malayalam Department, University of Kerala. The ice-breaking session of the course was handled by Dr. G. Padma Rao, Course Co-ordinator, Dr. Reghukumar. G, SSUS-RC, Ettumanoor and Dr. C. Udayakala, All Saints' College, Trivandrum were selected as the conveners of the course.

The following were the themes covered in the course.
Topic 1: Media and Changing Kerala, Resource Person: Sri. P. Sujathan, **Topic 2: Pashchimatheera Bhashabheda Parinamam**, Resource Person : Dr. Naduvattam Gopalakrishnan, **Topic 3: Epic Theatre**, Resource Person : Dr. Valsala Baby, **Topic 4: Sahithyathile Sargathmakatha**, Resource Person : Dr. K. M. Venugopal, **Topic 5: The Modern Theatre**, Resource Person : Dr. C. L. Thomas Kutty, **Topic 6: The Modern Techniques in Theatre Art**, Resource Person : Dr. N. Ajayakumar, **Topic 7 : The Modern Short Stories - A Revaluation**, Resource Person : Dr. Prasanna Rajan, **Topic 8: The changes of Theatre Art**, Resource Person : Dr. C. R. Omanakuttan, **Topic 9 : Time Management**, Resource Person : Dr. V. Reghu, **Topic 10: The Post Modern Literature – The Art of Vision**, Resource Person : Dr. Valsalan Vathusseri, **Topic 11: Stress Management**, Resource Person : Dr. Dev Das Menon, **Topic 12: The Relation of Music and Literature**, Resource Person : Dr. B. Arundhathi, **Topic 13: The Future of Criticism**, Resource Person : Dr. V. Rajakrishnan, **Topic 14: Islamic Literature**, Resource Person : Dr. A. Ashraf, **Topic 15: The Historical Study of Literature**, Resource Person : Dr. P. S. Radhakrishnan, **Topic 16: Arivu Vivaranam Bhashayil**, Resource Person : Dr. C. R. Prasad, **Topic 17: Folk Aesthetics**, Resource Person : Dr. C. R. Rajagopal, **Topic 18: The Writings of Modern Age**, Resource Person : Sri. B. Murali, **Topic 19: Sanchara Sahityam**, Resource Person: Dr. J. Devika, **Topic 20: The Possibilities of Literary Theories**, Resource Person: Dr. P. K. Rajasekharan, **Topic 21: PBAS**, Dr. S. V. Sudheer, **Topic 22: Kavithayude Cholvadivukal**, Resource Person: Dr. Anchal Prasad, **Topic 23: Health**

& Wellness, Resource Person: Dr. Usha S. Nair, Sessions 24, 25, 26 : Project Presentations by participants. Evaluation by subject experts, *Resource Persons:* Dr. C. R. Rajagopal & Dr. G. Padma Rao.

In the feedback session, the participants specially mentioned the dedication, responsibility and enthusiasm of Dr. S. V. Sudheer which ensured the smooth conduct of the course. They also expressed their appreciation of the efforts taken by the Co-ordinator Dr. G. Padma Rao. The extremely co-operative and amiable attitude of the staff of the UGC-Human Resource Development Centre was also sincerely acknowledged by the participants.

REFRESHER COURSE IN WOMEN'S STUDIES [From 1.10.2015 To 21.10.2015]

The XII Refresher Course in Women's Studies commenced on 1st October 2015 at the UGC-Human Resources Development Centre, University of Kerala. Dr S.V. Sudheer, Director, HRDC, inaugurated the programme which was attended by teachers from different parts of the country. Dr. Sindhu Thulaseedharan, Co-ordinator of the programme, conducted an ice-breaking session ensuring a high level of interaction among the participants. Well known academicians, professional, trainers and activists made presentations on various aspects of Women Studies on the following days.

The following were the topics covered in the course:
Topic 1: Women & Leisure & Somatophobia – Women's bodies, Resource Person : Dr. Meera Baindur, Topic 2 : Stress Management, Resource Person : Dr. K. Gireesh, Topic 3: Women & Kudumbasree Mission, Resource Person : Ms. Soya Thomas, Topic 4: Women in Indian Constitution, Resource Person : Justice K. T. Thomas, Topic 5: Femititude: Decentred Narratives of Munnar Struggle, Resource Person : Dr. K. Ravi Raman, Topic 6 : Nature, Women & Human Survival, Resource Person : Dr. S. Santhi, Topic 7 : Mainstreaming Gender Issues in Development: Towards Transformative Planning & Budgeting, Resource Person : Dr. Mridul Eapen, Topic 8 : Protection of Women from Cyber Crimes, Resource Person : Sri. Vinayakumaran Nair, Topic 9 : Panel Discussion on Women Empowerment, Resource Persons : Ms. Mini. S, Ms. Vijitha V. V, Sri. J. Reghu, Topic 10: Modes of Enforcing Patriarchy in this Media Generation, Resource Person: Dr. Laura Dameris, Topic 11 : Introduction to Women's Studies, Resource Person :

Dr. S. P. Denisia, **Topic 12: Women & Gandhiji, Resource Person : Sri. P. Gopinathan Nair, Topic 13 : Modern Political Thinkers on Women, Resource Person : Prof. Rajaram Tolpadi, Topic 14: Crimes against Women, Resource Person : Adv. Bhuvanachandran Nair, Topic 15 : Time Management, Resource Person : Dr. V. Reghu, Topic 16 : Health & Wellness, Resource Person : Dr. Usha S. Nair, Topic 17: API Score, Dr. S. V. Sudheer, Director, Topic 18: Status of Women in Smritis, Resource Person : Dr. Devi Prasad Mishra, Topic 19 : Difficult Transitions in Gender – Some Instances from The Present, Resource Person : Dr. Parinitha, Topic 20: Gender & Women's Health, Resource Person : Dr. T. K. Sundari Raveendran.**

On October 19th and 20th, the project presentations by the participants were held. Dr. Sindhu Thulaseedharan and Dr. Resia Beegam chaired the sessions. The participants went on an enjoyable trip to Poovar on 14 October 2015. Positive feedback and suggestions were given by the participants during the valedictory function.

SHORT-TERM COURSE FOR UNIVERSITY ADMINISTRATORS [From 12.10.2015 To 16.10.2015]

The Short-Term Course for University Administrators began on 12.10.2015 at the UGC-Human Resource Development Centre, University of Kerala. The programme was formally inaugurated by Dr. S. V. Sudheer, Director, UGC-HRDC. In his inaugural address, he highlighted the crucial role of Administrators in ensuring the successful functioning of the University.

The following topics were covered in the programme:
Topic 1: Revamping University Administration, Resource Person: Dr. Achuthsankar S. Nair, Topic 2: Stress Management, Resource Person: Dr. Dev Das Menon, Topic 3: Financial Propriety, Resource Person: Sri. Sivasankaran Nair, Topic 4: Interpersonal Relations, Resource Person: Dr. S. V. Sudheer, Topic 5: RTI, Resource Person: Sri. T. Manoharan Nair, Topic 6: Time Management, Resource Person: Dr. V. Reghu.

The programme was highly beneficial to the participants. The programme was designed and co-ordinated by Sri. R. Dilip, Joint Registrar, Campus Administration, University of Kerala, Kariavttom.

REFRESHER COURSE IN ECONOMICS [From 27.10.2015 To 16.11.2015]

The Refresher Course in Economics was held from 27.10.2015 to 16.11.2015. The programme began with an inspirational briefing of the objective of the course by Dr. S. V. Sudheer, Director, UGC-HRDC, University of Kerala. He emphasized the vital role of teachers in the field of higher education. The course co-ordinator Dr. Manju S. Nair, Associate Professor & Head, Dept. of Economics, University of Kerala, Kariavattom campus gave an overview of the programme and allotted project work to the participants. Mr. Joseph K. J., Assistant Professor, Department of Economics, Peren Govt. College, Nagaland & Ms. Rajalakshmi. R, Assistant Professor, Department of Economics, Union Christian College, Aluva were selected as the convenors of the programme respectively.

The following were the topics covered in the course:
Topic 1: NSS data for understanding labour market in India, Resource Person: Dr. Vinoj Abraham, **Topic 2: What is wrong with economics?** Resource Person: Dr. M. A. Oommen, **Topic 3: Methodology of Econometrics**, Resource Person: Dr. Manju S. Nair, **Topic 4: Qualitative Data Analysis**, Resource Person: Dr. Vijayamohanan Pillai N., **Topic 5: Privatisation of Higher Education**, Resource Person: Prof. Prabhat Patnaik, **Topic 6: Applications of simple derivatives in economics Part-I**, Resource Person : Dr. Abdul Salim, **Topic 7: GST in India**, Resource Person: Dr. N. Ramalingam, **Topic 8: Time Management**, Resource Person: Dr. V. Reghu, **Topic 9: Changing fashions of balance of payments adjustment**, Resource Person : Dr. Manmohan Lal Agarwal, **Topic 10: Federalism and Economic Development in India : Future Prospects**, Resource Person : Dr. G. Karunakaran Pillai, **Topic 11: Understanding Society and the role of intellectuals**, Resource Person : Dr. J. Prabhash, **Topic 12: Development & Public Policy: The experience of United Nations**, Resource Person : Dr. John Samuel, **Topic 13: Kerala State Local Finances: Selected Issues**, Resource Person : Dr. B. Alwin Prakash, **Topic 14: Liquidity Management in India**, Resource Person : Dr. Simon Thattil, **Topic 15: Agrarian Question**, Resource Person : Dr. K. N. Harilal, **Topic 16: Empowerment & Liberation : On two overused concepts**, Resource Person : Dr. J. Devika, **Topic 17: The 1990 Macroeconomic Policy Consensus : Some issues from Indian Economy**, Resource Person: Dr. Visakh Varma, **Topic 18: Emerging Economic Scenario: Challenges & Opportunities**, Resource

Person : Dr. V. K. Vijayakumar, **Topic 19: Regression Analysis : Model Diagnosis and SPSS**, Resource Person : Dr. V. Nagarajan Naidu, **Topic 20: Health & Wellness**, Resource Person : Dr. Usha S. Nair, **Topic 21: RTI**, Resource Person : Sri. T. Manoharan Nair.

The field trip to Chitharal, Thripparappu & Padmanabhapuram Palace was a refreshing experience of participants. The project presentations of the participants were evaluated by Dr. Prasad A. K., Associate Professor, Dept. of Economics, University of Kerala, Kariavattom. The course came to a conclusion with evaluation and feedback session. Participants expressed their opinion about the programme and gave their suggestions for further improvement. The whole hearted and timely involvement of the Director and sincere and extreme co-operative attitude of the administrative staff were specially mentioned.

SPECIAL WINTER SCHOOL PROGRAMME [From 29.10.2015 To 18.11.2015]

The Special Winter School Programme commenced on 29-10-2015 with the inaugural address by Dr. S. V. Sudheer, Director, HRDC, University of Kerala. The ice-breaking session was handled by Dr. Sonny Jose which helped the participants to know each other. Dr. Stephen Sequeira, Department of Botany, Government College, Chittoor, and Dr. Sikha T.S, Department of Chemistry, M.G College, Trivandrum, were selected as the Convener and the Co- Convener respectively.

The following topics were discussed in the programme. **Topic 1: Swot analysis and Interpersonal Skills for Teachers**, Resource Person: Dr. Dinakar Lal Thavamany, **Topic 2: R.T.I**, Resource Person: Sri. T. Manoharan Nair, **Topic 3: Personality Development**, Resource Person: Dr. Devadas Menon, **Topic 4: Stress Management**, Resource Person: Dr. K. Gireesh, **Topic 5: Disaster Management**, Resource Person: Dr. Thara K.G, **Topic 6: Professional Excellence**, Resource Person: Dr. V. M. Santhosh, **Topic 7 : History of Education**, Resource Person: Dr. Alexander Jacob I.P.S., **Topic 8: Time Management**, Resource Person: Dr. V. Reghu, **There was a Panel Discussion on Women Empowerment by the Resource Persons**: Sri. J. Reghu, Ms. Mini S and Ms. Vijitha V.V, **Topic 9: Health and Wellness**, Resource Person: Dr. Usha S. Nair, **Topic 10: Academic Writing Skills**, Resource Person: Dr. K.P. Vijayakumar, **Topic 11: Cyber Crimes**, Resource Person: Sri. Vinayakumaran Nair, **Topic 12: Funding Agencies**, Resource Person: Dr. G. Gopakumar, **Topic 13: Service Rules**, Resource Person: Sri K. Natesan Asari, **Topic 14: Reflective**

Teaching, Resource Person: Dr. Rosamma Philip, **Topic 15: Pesticides and residues in food and their impact, Resource Person:** Thomas Biju Mathew.

On 13th November, 2015, the participants went on a field visit to Varkala beach. Dr. John Panicker.V, S.G College, Kottarakkara, organized the trip and made it a memorable experience for all the participants. The Project Presentations were held on 11th, 12th, 16th and 17th of November 2015. They were evaluated by Dr. P. P. Ajaykumar, Dr. Resia Beegam & Dr. Ganga Prasad. The course came to a successful culmination on 18-11-2015. All the participants gave their feedback on the course and were satisfied about the excellent conduct of the course. They expressed their gratitude to Dr. S. V Sudheer, for providing them with a brilliant and unique academic experience throughout the programme.

REFRESHER COURSE IN NANOSCIENCE [From 25.11.2015 To 15.12.2015]

The 30th Refresher Course commenced on 25.11.2015. The program was inaugurated by Dr. S. V. Sudheer, Director, UGC-HRDC, University of Kerala, Kariavattom. Dr. S. V. Sudheer welcomed the gathering and briefed the program profile. In his speech, he focused on the importance of technology innovations using basic scientific basis concepts. The coordinator of the course was Dr. K. G Gopchandran, Professor, Department of optoelectronics, University of Kerala. Dr. Sibi K. S and Dr. Teena Lis Luke were selected as the convenors of the programme.

The following were the themes covered in the course.
Topic 1: Introduction to Nano Materials & Nano Technology, Resource Person: Dr. M. Abdul Khader, **Topic 2: X-ray diffraction of Nano materials, Resource Person:** Dr. V. Biju, **Topic 3 : Nanoelectronics, Resource Person :** Dr. Premlet. B, **Topic 4 : Introduction to Nanotechnology, Resource Person :** Dr. M. K. Jayaraj, **Topic 5 : Mesoporous Materials, Resource Person :** Dr. A. Thirumurugan, **Topic 6 : Magnetic Nanomaterials, Resource Person :** Dr. Ramesh Chandra Nath, **Topic 7 : Nanoelectronic devices, Resource Person :** Dr. K. P. Surendran, **Topic 8 : Plasmonic, Resource Person :** Dr. C. S. Narayanamurthy, **Topic 9 : Nanomaterials and biomedicine, Resource Person :** Dr. R. S. Jayasree, **Topic 10 : RTI, Resource Person :** Sri. T. Manoharan Nair, **Topic 11 : Graphene, Resource Person :** Dr. K. B. Jinesh, **Topic 12 : Mass Spectrometry, Resource Person :** Dr. Umesh. R. Kadhane, **Topic 13 : SPM techniques, Resource Person :** Dr. Joy Mitra, **Topic 14 : Structural properties of nanomaterials, Resource**

Person : Dr. C. Sudarsanakumar, **Topic 15 : Nanomaterials, Resource Person :** Dr. Vinesh Vijayan, **Topic 16 : Computational Chemistry, Resource Person :** Dr. Jayasree E. G, **Topic 17 : Supramolecular Chemistry for the Creation of Functional Nanostructures, Resource Person :** Dr. Vijayakumar C. Nair, **Topic 18 : Role of Electron microscopy in Characterization of nano materials, Resource Person :** Dr. P Prabhakar Rao, **Topic 19 : Nano structuring for ecofriendly alternatives for cooling, Resource Person :** Dr. Anantharaman M. R, **Topic 20 : Polymer nanocomposites, Resource Person :** Dr. Honey John, **Topic 21 : Solar energy materials and solar cells, Resource Person :** Dr. K. P. Vijayakumar, **Topic 22 : Structural Evolution and Applications of Atom-Precise Metal Nanocluster, Resource Person :** Dr. SukhenduMandal, **Topic 23 : Quantum confinement, Resource Person :** Dr. K. J. Thomas, **Topic 24 : Nanobiotechnology, Resource Person :** Dr. A. Jayakumaran Nair, **Topic 25 : Nanoelectronics, Resource Person :** Dr. MadhuThalakulam, **Topic 26 : Nanophotonics, Resource Person :** Dr. C. Vijayan, **Topic 27 : Investigations on Nano Biomimetics, Resource Person :** Dr. S. NarayanaKalkura, **Topic 28 : Nanophotonics, Resource Person :** Dr. Reji Philip, **Topic 29 : Nano Fabrication Technology, Resource Person :** Dr. P. S. Anil Kumar.

The Project Presentations by the participants were evaluated by Dr. T. S. Anirudhan, Dr. V. K. Vaidyan, Dr. K. Mohanan and Dr. V. P. M. Pillai. The Participants went on an enjoyable and memorable field visit to VSSC, KochuVeli, Vettukad Church, on 09.12.2015 and to Observatory, University of Kerala, on 14.12.2015. It was definitely a great experience for the participants. The feedback taken from the participants reflected the fact that the course was highly successful. Special mention was made of the whole hearted dedication, responsibility and timely help from Dr. Sudheer. Dr. K. G. Gopchandran ensured the smooth conduct of the course and was well appreciated by the participants. Without the help of staff members of UGC-HRDC, the programme would not have achieved the colour, fun and frolic that it had. They were appreciated by all the participants for their untiring efforts and hospitality.

146th ORIENTATION PROGRAMME [From 01.01.2016 To 28.01.2016]

The 146th Orientation Programme (IT-Oriented) began on 01.01.2016 at the UGC-HRDC, University of Kerala. The participants were given a warm

welcome to the course by Dr. S. V. Sudheer, Director, UGC-HRDC, University of Kerala. They were briefed on the course content and the expected outcome of the programme. The programme was formally inaugurated after the briefing. The afternoon session was an ice-breaking session which was led by Dr. Sonny Jose, Assistant Professor of Social Work, Loyola College of Social Sciences, Trivandrum.

The following topics were covered in the programme:
Topic 1: Ice Breaking Session, Resource Person: Dr. Sonny Jose, **Topic 2: Stress Management**, Resource Person: Dr. Dev Das Menon, **Topic 3: Introduction to Computers, Microsoft Word, Excel, Powerpoint, & Internet**, Resource Person: Mr. Shibu Albert, **Topic 4: Time Management**, Resource Person: Dr. V. Reghu, **Topic 5: Cyber Crimes**, Resource Person: Sri. Vinayakumaran Nair, **Topic 6: Reflective Teaching**, Resource Person: Dr. Rosamma Philip, **Topic 7 : History of Education**, Resource Person : Dr. Alexander Jacob IPS, **Topic 8: Disaster Management**, Resource Person: Dr. K. G. Thara, **Topic 9: Self Awareness and Counseling** Resource Person: Fr. Joye James, **Topic 10: Academic Writing Skills**, Resource Person : Dr. K. P. Vijayakumar, **Topic 10: Fire and Rescue services in Disaster Management**, Resource Person : Sri. Prathap Kumar, **Topic 11: Pesticides and residues in food and their impact**, Resource Person : Dr. Thomas Biju Mathew, **Topic 12: Life Styles**, Resource Person : Dr. Sivasankaran, **Topic 13 : Digital Learning**, Resource Person : Dr. Senthilnathan, **Topic 14 : Health & Wellness**, Resource Person: Dr. Usha S. Nair, **Topic 15 : Mysteries of the Universe**, Resource Person : Dr. Prince P.R, **Topic 16 : Water Resource Management**, Resource Person : Dr. E. Shaji, **Topic 17 : RTI**, Resource Person : Sri. T. Manoharan Nair, **Topic 18: Research Methodology**, Resource Person : Dr. Simon Thattil.

On 18.01.2016 FN Dr. Thomas Biju Mathew rendered a well researched talk on pesticides and residues in food and their impact. Dr. Sivasankaran explored the topic “Life Styles” in a freewheeling discussion. Dr. Senthilnathan gave an exhaustive study on Digital Learning. Dr. Usha S. Nair took the group through a very refreshing session on Health and Wellness with a practical aerobics session. Microteaching videos were analysed by Dr. Rosamma Philip and a field visit to Poovar and Vizhinjam was conducted. Dr. Simon Thattil presented a well organized, systematic talk on research methodology. The projects were submitted and presented and evaluation and feedback were given. Power Point Presentation evaluation was done by Dr. P. P. Ajayakumar, Dr. A. Ganga Prasad, Dr. Resia

Beegam. The programme was very informative and thought provoking. It has been successful in re-orienting the participants to become better teachers.

REFRESHER COURSE IN ENVIRONMENTAL SCIENCES

[From 05.01.2016 To 25.01.2016]

The UGC sponsored Refresher Course in Environmental Sciences conducted by the Human Resource Development Centre, University of Kerala, commenced on the forenoon of 5th January, 2016. The course was attended by 50 participants from different colleges and Universities spread across the country. Dr. S. V. Sudheer, Director, UGC-HRDC, inaugurated the programme and addressed the participants after meeting them individually in the morning. He mentioned our responsibility to know our environment and the necessity to study the problems faced by the environment and remedy to these. He expressed his expectation that the participants will take over the message to the students as well. This was followed by an ice-breaking session which was led by the course coordinator, Dr. V. Salom Gnana Thanga, Associate Professor, Department of Environmental Sciences, University of Kerala. Dr. Ayona Jayadev, Assistant Professor of Environmental Sciences, All Saints’ College, Thiruvananthapuram and Fr. Sabu P. Thomas, Assistant Professor of Social Work, Loyola College, Thiruvananthapuram were chosen as convenors for the smooth conduct of the course. It was also decided that as the course was on Environmental Sciences, each day should commence with a small ‘thought on environment’.

The programme covered sessions and discussions on the following topics/areas: **Topic 1: Wild life of Western Ghats**, Resource Person: Dr. Kunhikrishnan, **Topic 2: Environment, Natural Resource Base and human destiny**, Resource Person: Dr. K. Soman, **Topic 3: Importance of Rivers – river processes**, Resource Person: Dr. K. Soman, **Topic 4: Ecological footprint and sustainable development**, Resource Person: Dr. Renjan Mathew Varghese, **Topic 5: Human animal conflict**, Resource Person: Dr. Renjan Mathew Varghese, **Topic 6: Natural Hazards**, Resource Person: Dr. John Mathai, **Topic 7: Energy and Environment**, Resource Person: Dr. R. V. G. Menon, **Topic 8: Conservation and development**, Resource Person: Dr. P. S. Easa, **Topic 9: Individual contribution in global warming**, Resource Person: Dr. D. Thankamony, **Topic 10: Environmental Impact Assessment**, Resource Person: Dr. A. R. R. Menon,

Topic 11: Mass Extinction, Resource Person: Dr. S. N. Kumar, **Topic 12: Environmental issues: Special reference to mining, Resource Person:** Dr. Sabu Joseph, **Topic 13: Biological control of insects, Resource Person:** Dr. Chandish Ballal, **Topic 14: Environmental law, Resource Person:** Dr. Sindhu Thulaseedharan, **Topic 15: Stress Management, Resource Person:** Dr. Dev Das Menon, **Topic 16: Our Common Future, Resource Person:** Dr. A. Bijukumar, **Topic 17: Climate change and food security, Resource Person:** Dr. G. Sudha, **Topic 18: Pesticide residues and environment, Resource Person:** Dr. Thomas Biju Mathew, **Topic 19: Earth and its Environment with special reference to management of solid wastes, Resource Person:** Prof. K. K. Sharma, **Topic 20: Time Management, Resource Person:** Prof. K. K. Sharma, **Topic 21: Wetland Biodiversity and human intervention in the Vembanad lake, Resource Person:** Dr. Padmakumar K. G, **Topic 22: Global Warming, Resource Person:** Smt. Rani V. R, **Topic 23: Climate induced disasters, Resource Person:** Dr. K. G. Thara, **Topic 24: Essentials of Oceanography, Resource Person:** Dr. Mohammed Hatha, **Topic 25: Arctic expedition, Resource Person:** Dr. Mohamed Hatha. Just before the last technical session, there was Project presentations and evaluation and the resource persons for these sessions were Dr. V. Salom Gnana Thanga, Dr. Sabu Jseph and Dr. Jaya D. S.

As part of the course, the participants went on a field trip to 'Chitharal', a beautiful hillock with the remnants of a ruined Jain temple. The participants enjoyed the trip and the scenic beauty and the nature walk. Feedback forms were distributed and the responses were collected from the participants. While giving their feed backs on the course, participants were unanimous on the excellent quality of the course. Representatives of participants expressed their profound gratitude to Dr. S. V. Sudheer, Director, UGC-HRDC for the effective management and execution of the programme. They also thanked the entire crew of HRDC for being cordial and helpful. The programme included with a valedictory session in which the certificates were distributed to the participants.

**Workshop on Administrative Training
Programme for University Heads / Directors
of Teaching Departments
[From 02/03/2016 to 05/03/2016]**

Report of the Administrative Training for University Heads of Teaching Departments / Directors organized by UGC-Human Resource Development Centre, University of Kerala and sponsored by Rashtriya

Uchchathar Shiksha Abhiyan (RUSA), Ministry of Human Resource Development, Government of India held at UGC-HRDC, Kariavattom on 2–5 March, 2016.

The higher education scenario is rapidly changing. As a nation which tries to assert its claim as a great power, India has to focus more on higher education, especially on the terrain of quality education. University Teaching Departments possess a unique place not only in imparting quality education but to be the leaders of research, which is essential for the comprehensive growth of the nation. With this aim in mind, the UGC-Human Resource Development Centre, University of Kerala, with the help of RUSA, has initiated an imaginative programme to provide a short term training to the University Heads of Teaching Departments / Directors in the basics of academic administration to cope with the demands of a changing world of higher education.

The training programme started with the registration at 9.00 am. The inaugural session started at 9.30 a.m. with a welcome speech by Dr. S.V. Sudheer, Director, UGC-HRDC, University of Kerala. Along with that he has made some introductory remarks about the objective of the course. Dr. N. Veeramanikandan, Pro-Vice Chancellor, University of Kerala has inaugurated the Training Programme. Sri. R. Dilip, Joint Registrar, Campus Administration proposed vote of thanks.

The first technical session was handled by Dr. Dev Das Menon, Former Head of Department of Psychology, University of Kerala, on "Stress Management." The afternoon session was focused on "General Administration". Dr. Alexander Jacob, IPS, Former DGP of Kerala presented the issues of General Administration in relation with Higher Education. On 3rd March 2016, the forenoon session was handled by Prof. Sudhanshu Bhushan of NEUPA, New Delhi, on "Higher Education and Planning." The afternoon session was earmarked for discussing the "Financial Propriety" which was led by Sri. S. Vijayakumar of Kerala University.

On 4 March 2016, the technical session was on "Kerala Service Rule" which was presented by Sri. Natesan Asari, Former Secretary, Kerala Social Welfare Board, Government of Kerala. The afternoon session discussed the problems on "Interpersonal Relations" by Dr. S.V. Sudheer, Director, UGC-HRDC. The last of the technical session was handled by Prof. K. Srinivas, NEUPA, New Delhi, on "Designing, Transacting, Assessing and Delivering MOOCs with Moodle Software."

The Programme came to an end with the valedictory Session which was chaired by Dr. S.V. Sudheer, Director, UGC-HRDC. Prof. S. Varghese, RUSA State Project Coordinator, delivered the valedictory address. Dr. Joseph Antony, Convenor proposed vote of thanks.



Director Dr. S. V. Sudheer inaugurating onam celebration organised by the participants of RC in Mathematics



The participants of RC in Malayalam enjoying “Athapookalam”



Justice K. T. Thomas interacting with the participants of RC in Women Studies



Dr. D. Babu Paul IAS inaugurating RC in Human Rights - Dr. S. V. Sudheer and Dr. J. Prabhash on the dias



Panel discussion on Media and Human Rights - Sri. Sebastian Paul, Sri. Gouridasan Nair and Sri. M. G. Radhakrishnan on the dias



Dr. S. V. Sudheer and the participants of Special Winter School planting tree



The participants of RC in Life Sciences in TBGRI

**PROGRAMMES CONDUCTED
FROM DECEMBER 1987 TO MARCH 2016**

Sl. No.	Year	Number of Courses	Number of Participants
1	1987 - 1988	03	94
2	1988 - 1989	08	281
3	1989 - 1990	10	337
4	1990 - 1991	12	405
5	1991 - 1992	16	482
6	1992 - 1993	18	493
7	1993 - 1994	19	583
8	1994 - 1995	15	459
9	1995 - 1996	12	381
10	1996 - 1997	11	408
11	1997 - 1998	11	449
12	1998 - 1999	13	572
13	1999 - 2000	22	960
14	2000 - 2001	27	1104
15	2001 - 2002	28	1202
16	2002 - 2003	32	1294
17	2003 - 2004	33	1108
18	2004 - 2005	33	1296
19	2005 - 2006	36	1180
20	2006 - 2007	33	1002
21	2007 - 2008	36	1094
22	2008 - 2009	32	1104
23	2009 - 2010	34	1049
24	2010 - 2011	32	985
25	2011 - 2012	30	1093
26	2012 - 2013	27	1014
27	2013 - 2014	29	1125
28	2014 - 2015	28	1202
29	2015 - 2016	20	1011
Total		660	23,767

Applications may reach this office 30 days prior to the commencement of each course
Application forms can be downloaded from the website: www.keralauniversity.ac.in/ugcasc

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