



Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad, T.S.

Report on activities of UGC-Human Resource Development Centre



The UGC-Human Resource Development Centre (HRDC) (formerly Academic Staff College) was established in the year 2000 as an autonomous unit in Jawaharlal Nehru Technological University Hyderabad (JNTUH) funded by the University Grants Commission, New Delhi. This was the first established Academic Staff College in a Technological University (JNTUH) in South India to support Technical Education. To create high quality human resources and to adopt innovative approaches in Higher Education, the HRDC of JNTUH has been organizing several programs viz., Orientation Programmes (four-weeks duration), Faculty Induction Programmes (five-weeks duration – 30 working days), Refresher Courses (two-weeks duration), Short Term Courses (one-week duration), Workshops (one to six days duration), Faculty Development Programmes (one-week duration) for the members of the faculty, throughout India. HRDC of JNTUH has conducted a total number of **371** training programmes (four weeks/three weeks/two weeks/one week duration) and trained a total number of **15,286** members of faculty since its inception through its programmes. During the current Academic Year 2021-22(till date), the HRDC of JNTUH has conducted **34** training programmes and trained a total of **2,359** faculty members.



*The Hon'ble Vice-Chancellor of JNTUH Prof. Katta Narasimha Reddy
Inaugurating the UGC Sponsored Refresher Course on "Drug Discovery, Drug Development and Analytical
Interpretation of Data in Pharmaceutical Research" held on July 12, 2021*

Along with the UGC sanctioned (diversified) programmes, the UGC-Human Resource Development Centre, JNTUH, Hyderabad is organising AICTE sponsored programmes, TEQIP sponsored programmes, Outreach Programmes and other Self-financing programmes, on thrust areas for in-service teachers and also for newly recruited teaching faculty on a regular basis, to update the pedagogical skills and knowledge in their respective fields.

As the landscape of the Educational System has changed in the context of Industry 4.0. Education 4.0 and in the context of National Education Policy (NEP-2020), there is a high emphasis on holistic education, which provides holistic development of students, where they can learn on their own/convenient way, which is an important aspect of academic pursuit. The role of the teachers is also changing from time-to-time so they have to customize their knowledge and methodologies in teaching-learning and should be ready to adapt new and innovative technologies. The UGC-HRDC of JNTUH is helping in this direction and conducting several programmes, for the benefit of faculty members.

The Programs at HRDC, JNTUH are designed to assist faculty to effectively integrate educational technologies into classroom and web-based teaching-learning practices. The HRDC of JNTUH conducts programs to build research competence and academic administration apart from teaching skills for holistic faculty development.

The HRDC, JNTUH provides capacity building/training on

- Technology Enhanced Teaching for the Academic Administrators – HoDs”,
- Preparing Vision, mission and strategic plans of the Institutions
- SWOT analysis and Strategic Goals , Conducting training need analysis
- Performance management and Nurturing creativity
- Quality assurance with specific reference to NAAC & NBA accreditation
- Funding opportunities for Academic Institutions
- Good Governance of Higher Education Institutions
- Current & Future trends in Higher Education
- Industry Institution Interaction , Building Alumni Associations for Institutions
- Academic Leadership qualities for meeting today’s Higher Education challenges
- Human Values and Professional Ethics etc.

These programmes emphasize more on **Hands-on training in emerging areas** with Industry professionals and also sessions are arranged at various Industries to enhance the practical knowledge and expose the participants on current industry needs. Courses on emerging technologies like Artificial Intelligence, Machine Learning, Deep Learning, Data Analytics, Internet of Things etc., with hands-on practices are conducted regularly to train the fresh faculty in colleges along with the senior faculty, to expose them to the latest technologies and to make them abreast in their subjects.

The HRDC has fully equipped Lecture Halls, Discussion Rooms and Committee room with LCD, Wi-Fi access and UPS facilities. It has well furnished and air-conditioned Computer Laboratory for use by the participants as well as resource persons of the programmes. It has a Library with a good number of books related to different subjects like Computer Science & Engineering, Information Technology, Electronics & Communication Engineering, Electrical & Electronics Engineering, Civil Engg., Mechanical Engg., Physics, Chemistry, Mathematics, English, life Sciences and other General Books. The Guest house comprises of 12 AC rooms and 34 non-AC rooms for accommodating both local & non-local participants and Resource persons thus making the programmes fully residential.



UGC-HRDC, JNTUH Building



Classrooms



Computer Lab.



Library

The HRDC is moving towards the attainment of holistic and multidisciplinary education, by training the faculty on the design of flexible and innovative curricula and included the topics on CBCS, projects in the areas of community engagement and service, environmental education, and value-based education.

The NEP-2020 focuses on teachers training because “when a teacher learns, the nation leads,”. Faculty training is vital in creating a pool of teachers that will shape the next generation. Faculty training is included with Indian values, culture and traditions.

In-service continuous professional development for college and university teachers is mandatory as per the policy. The technology platforms such as SWAYAM/DIKSHA for online training of teachers shall play a vital role. As the trained faculty members are essential to the current technical education Institutions, in order to improve the quality of education and to meet the requirements of changing pedagogy, the HRDC of JNTUH has been striving in this direction by conducting several Orientation Programmes/Faculty Induction Programmes for newly joined faculty, Refresher Courses in the specified thrust subject areas and other courses.

NEP-2020 proposes for the establishment of a National Research Foundation to fund outstanding peer-reviewed research and to actively seed research in universities and colleges. Accordingly, several programs on Research Methodology are conducted to encourage the faculty to apply for various funding agencies and to train them on various related topics like research article writing, presentation techniques, collaborative research , research ethics , copy rights and intellectual property rights.



Inaugural function of two programmes UGC sponsored Short Term Course on “Softskills and Professional Ethics” and AICTE sponsored STTP Programme on “3D Printing for Sustainable Development” held on October 25, 2021

The academic administrators of the Institutions/Colleges should encourage the teaching faculty for attending the Faculty Development Programmes for their professional development. So, the HRDC of JNTUH is conducting the workshops for the academic administrators, Principals and Head of the Departments every year, to enable them to gain exposure on the changing pedagogical practices and also to encourage their respective faculty for attending the programmes.

The Faculty Induction Programmes which are organized by the HRDC of JNTUH helps the faculty to understand their roles and responsibilities as faculty members and also to have a clear understanding of curriculum development and pedagogical strategies, maintenance of academic integrity, awareness on policies, governance and administrative structures in Higher Education. The UGC-Human Resource Development Centre of JNTUH has been putting its efforts in training the faculty members, as they are crucial to the current Higher Educational Institutions, in order to improve the quality of Education.

The center has been organising Skill Enhancement / Capacity Building programmes for the administrative/non-teaching staff of the University every year, to train them on various office procedures, accounting procedures and latest technologies of ICT.



Short Term Course on “Effective Academic Administration – for the Administrative Staff of the Universities and Colleges” held from December 6-9, 2021

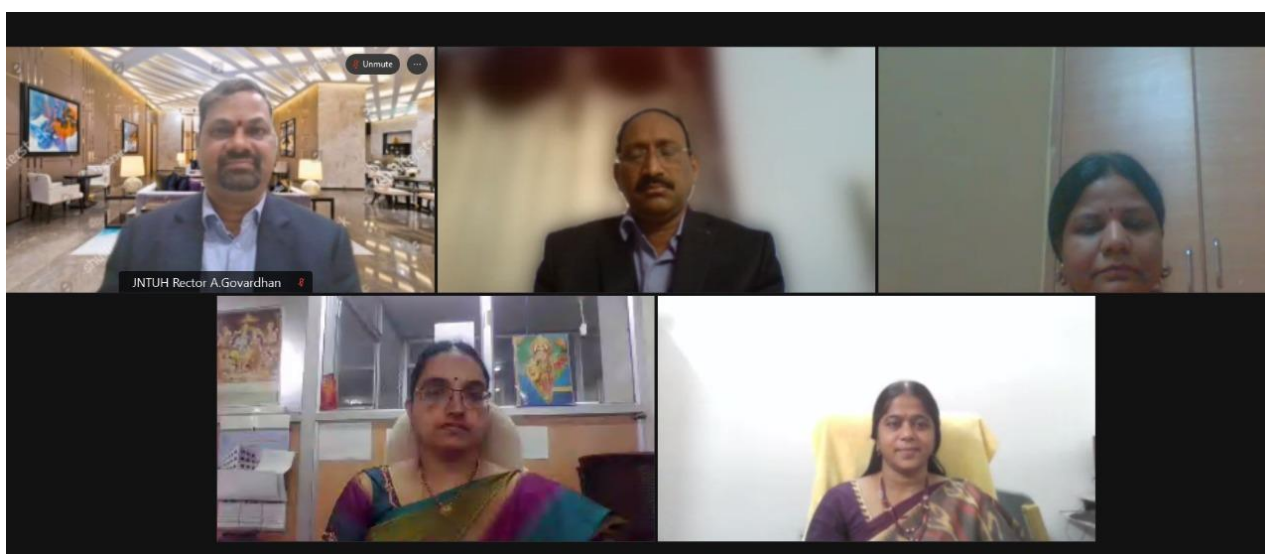


Release of Proceedings by the Chief Guest Hon'ble Vice-Chancellor of JNTUH Prof. Katta Narasimha Reddy of the Short Term Course – Effective Academic Administration on 6th Dec 2021.

The HRDC of JNTUH has successfully conducted 68 Programmes through ONLINE during the Academic years 2020-21 and 2021-22 (till date) i.e., from 1st April 2020 to 31st December 2021 and trained 6589 members of faculty from all over the country, through online mode.

During Covid-19 pandemic time, for creating active teaching learning environment and to explore the online Open Educational Resources and other Digital tools, the HRDC of JNTUH has conducted Online Workshops on “Online Tools and Software for Remote Teaching Learning” and also

on different disciplines to the faculty members of Engineering and Degree Colleges, all over India. The faculty members are the back bone of every Institution/University and their performance is the key to for the development of entire organization. They must update and their knowledge with new technologies and new pedagogical practices. HRDC of JNTUH is easily adapted to new changes and technologies during this COVID-19 pandemic and contributing its efforts in very efficient manner in conducting several programmes. Incorporated Interactive Teaching Learning Methods like Project Based Learning, Case Studies Based Learning, Interactive Game Based Learning, Group Discussions, Yoga practical sessions, Universal Human Values Sessions etc., in all the courses. Automation was initiated for participant registrations, payment of registration fee, assignment submission etc. Online Feedback system has been implemented for each and every session on daily basis to evaluate Resource Persons and the Programmes.



Inaugural Programme of two Short Term Courses on “Deep Learning” and “Modern Methods in Organic Synthesis and Analytical Techniques” held on 31-08-2021

The center has implemented Management Information System for Centralized Data Management, Online Participant Registration with Online Payment Integration, Integrated online Assignment, Feedback, Assessment submission, Attendance Tracking, Automatic reminders for Assignment and Feedback submissions, Automatic Certificate Eligibility Processing / Review, Certificate generation along with Participant Photo and QR Code, Controlled User Access Management for Participants, HRDC Staff, Program coordinators, Assignment Reviewers and all other stake holders of HRDC, Generating Customized Reports based on Year, Funding Agencies, Program / Course Types, Program Categories etc., Generating the reports of Assignment, Feedback, Assessment and Attendance.

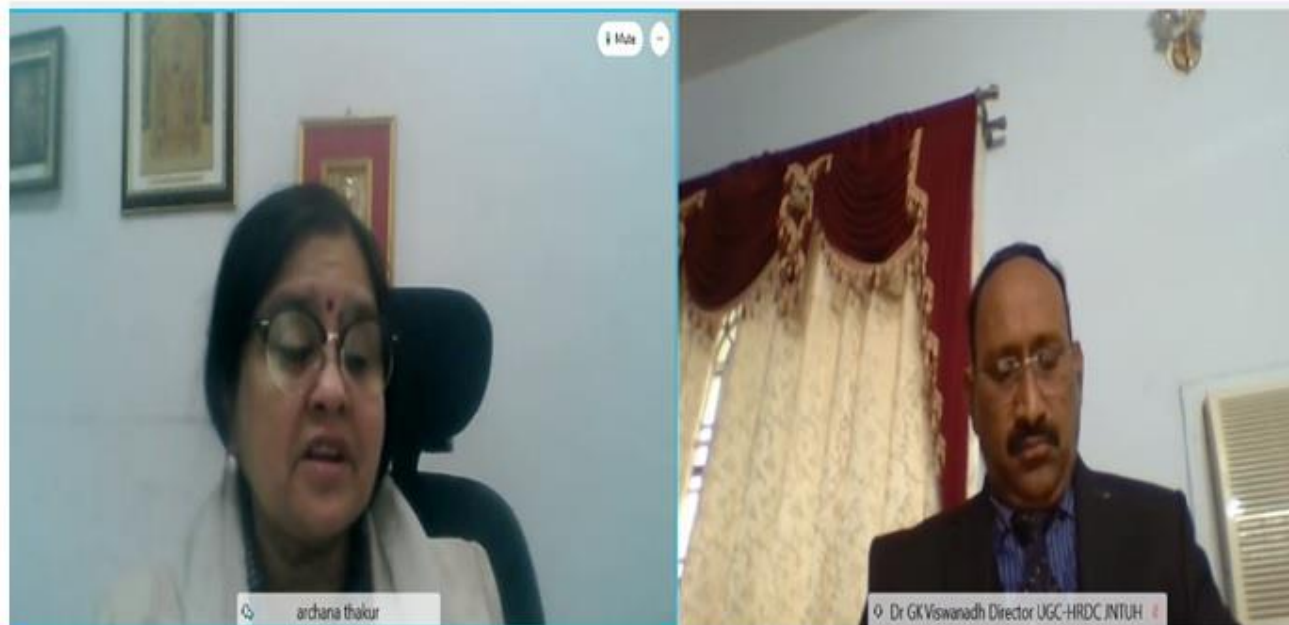


UGC Sponsored One Week Online Short Term Course on
"EFFECTIVE ACADEMIC ADMINISTRATION"
(04-01-2021 to 08-01-2021)

Organized by
UGC- Human Resource Development Centre
Jawaharlal Nehru Technological University Hyderabad



ज्ञान-विज्ञान विमुक्तये



UGC Joint Secretary Smt. Archana Thakur delivering a lecture in the short term course Effective Academic Administration at JNTUH through online on 6th January 2021.

The Jawaharlal Nehru Technological University Hyderabad entered into an MoU with All India Council for Technical Education (AICTE), New Delhi, in the Academic Year 2019-20, for conducting the Joint Short Term Training Programmes for the faculty of AICTE approved Institutions affiliated to JNTUH, with the objective to prepare the faculty members for being successful in the Knowledge Society. As per the MoU, the JNTUH in association with AICTE shall conduct **10** such programs in a financial year in the field of Technical Education and **1** program for Library Science faculty. The JNTUH has conducted 20 AICTE – JNTUH Joint Short Term Training Programmes through HRDC.



Project Monitoring Committee (PMC) of AICTE-JNTUH Joint Short Term Training Programs for the Year 2021-22 held on 28th July 2021 at 4.00 P.M. through online



Inaugural function of three AICTE-JNTUH Short Term Training Programmes on “Seismic Design of Multi Storey buildings”, “Blockchain and its applications” and “Latest trends and challenges in Electric Vehicle Technology and Battery Management Systems” held on October 4, 2021



*Inaugural function of one day workshop on “AICTE Quality Initiatives and Funding Opportunities :
Chief Guest Hon’ble Vice-Chancellor of JNTUH Prof. Katta Narasimha Reddy,
Guest-of-Honor Director FDC, AICTE Col. B. Venkat, Registrar of JNTUH Dr. M. Manzoor Hussain and
Director, UGC-HRDC Dr. G.K. Viswanadh*

Training Programmes conducted for the year 2021-22 (till date)

UGC – SPONSORED PROGRAMMES

FACULTY INDUCTION PROGRAMMES

S. No	Title of the Programme	Duration	Coordinator	No. of participants
1	Faculty Induction Programme-5	12-07-2021 to 18-08-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	43
2	Faculty Induction Programme-6	30-08-2021 to 08-10-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	45
3	Faculty Induction Programme-7	25-10-2021 to 01-12-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	36
4	Faculty Induction Programme-8	24-01-2022 to 28-02-2022	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	40

REFRESHER COURSES

S. No	Title of the Programme	Duration	Coordinator	No. of participants
1	Drug Discovery, Drug Development and Analytical Interpretation of Data in Pharmaceutical Research	12-07-2021 to 26-07-2021	Dr. M. Sunitha Reddy Assoc. Professor, Centre for Pharmaceutical Sciences, IST, JNTUH, Hyderabad	79
2	Internet of Things	09-08-2021 to 24-08-2021	Dr. B.V. Ram Naresh Yadav Assoc. Professor, Dept. of CSE, JNTUH CES, Sultanpur, T.S.	56
3	Contemporary Development Trends in Materials Science and Engineering	09-08-2021 to 24-08-2021	Dr. T. Sreekanth Professor, Dept. of Physics JNTUH CEJ, Jagtial, T.S.	36

S. No	Title of the Programme	Duration	Coordinator	No. of participants
4	Artificial Intelligence and Machine Learning	13-09-2021 to 25-09-2021	Dr. B.V. Ram Naresh Yadav Assoc. Professor, Dept. of CSE, JNTUH CES, Sultanpur, T.S. & Dr. B. Kranthi Kiran Assoc. Professor Dept. of CSE, JNTUH CEJ, Jagtial, T.S.	62
5	AI Techniques - Electrical Engineering	22-11-2021 to 04-12-2021	Dr. K. Nagasujatha Professor of EEE & Dy. Director, UGC-HRDC, JNTUH, Hyderabad & Dr. R. Durga Rao Assistant Professor & Head, Dept. of EEE, JNTUH CEM, Manthani, T.S.	36

SHORT TERM COURSES

S. No	Title of the Programme	Duration	Coordinator	No. of participants
1	Cyber Security & Forensics	26-07-2021 to 31-07-2021	Dr. J. Ujwala Rekha Assoc. Professor, Dept. of CSE, JNTUH CEH & Mrs. E. Hemalatha Assistant Professor, Dept. of CSE, JNTUH CEH	36
2	Modern Methods in Organic Synthesis and Analytical Techniques	31-08-2021 to 06-09-2021	Dr. Aparna Pasula Assistant Professor, Dept. of Chemistry, JNTUH CEH & Dr. T. Sabithakala Assistant Professor, Dept. of Chemistry, JNTUH CEH	32

S. No	Title of the Programme	Duration	Coordinator	No. of participants
3	Deep Learning	31-08-2021 to 06-09-2021	Dr. A. Kavitha Assoc. Professor, Dept. of CSE, JNTUH CEH & Dr. S. Suresh Kumar Assistant Professor & Head, Dept. of IT, JNTUHCEJ	30
4	Recent Advances in Renewable Power	13-09-2021 to 18-09-2021	Dr. K. Nagasujatha Professor of EEE & Dy. Director, UGC-HRDC, JNTUH & Dr. D. Kiran Kumar Assistant Professor, Dept. of EEE, JNTUHCEH	30
5	Soft Skills and Professional Ethics	25-10-2021 to 30-10-2021	Dr. V. Parvathi Professor & Head, Dept. of H & SS, JNTUH CEH	33
6	Principles, Synthesis and Characterization of Nanotechnology – Current and Future approaches	22-11-2021 to 27-11-2021	Dr. M. Sunitha Reddy Assoc. Professor & Head, Centre for Pharmaceutical Sciences, IST, JNTUH & Dr. Ch. Shilpa Chakra Assistant Professor & Head, CNST, IST, JNTUH	36
7	E-Content Development and Online Pedagogy	13-12-2021 to 18-12-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	34
8	Robotics and its applications	20-12-2021 to 27-12-2021	Dr. P. Sammulal Professor, Dept. of CSE, JNTUHCEJ & Dr. M. Shailaja Professor, Dept. of M.E., JNTUH CES	30
9	Effective Academic Administration for administrative staff of Universities and Colleges	06-12-2021 to 09-12-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	50
10	Research Methodology	24-01-2022 to 31-01-2022	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	44

JNTUH SPONSORED PROGRAMMES

S. No	Title of the Programme	Duration		No. of participants
1	Faculty Induction Programme for the Assistant Professors (C) of JNTUH Constituent Colleges	28-06-2021 to 04-08-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	44
2	Short Term Course on “Artificial Intelligence and Machine Learning”	28-06-2021 to 03-07-2021	Dr. S. Suresh Kumar Assistant Professor & Head, Dept. of IT, JNTUH CEJ & Dr. Ch. Asha Jyothi Assistant Professor, Dept. of IT, JNTUH CEJ	220
3	Webinar on “Advocacy Programme on Competition Law”	28-08-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	40

AICTE – JNTUH JOINT STTP PROGRAMMES

STTP PROGRAMMES

S. No	Title of the Programme	Duration	Coordinator	No. of participants
1	Advanced Machine Learning Algorithms	20-09-2021 to 25-09-2021	Dr. B. Sateesh Kumar Professor, Dept. of CSE, JNTUHCEJ	137
2	New Technology Development of Advanced Drug Delivery in Life Threatening Diseases	20-09-2021 to 25-09-2021	Dr. M. Sunitha Reddy Assoc. Professor & Head, Centre for Pharmaceutical Sciences, IST, JNTUH	154
3	Latest Trends and Challenges in Electric Vehicle Technology and Battery Management Systems	04-10-2021 to 12-10-2021	Dr. Sadanandam Perumandla Assoc. Professor, Dept. of EEE Vaagdevi College of Engineering, Warangal	142
4	Blockchain and its Applications	04-10-2021 to 12-10-2021	Dr. Bipin Bihari Jayasingh Professor & Head, Dept. of IT, CVR College of Engineering, Ibrahimpatnam	140

S. No	Title of the Programme	Duration	Coordinator	No. of participants
5	Seismic Design of Multistory Buildings: IS 1893-2016	04-10-2021 to 12-10-2021	Dr. V. Mallikarjuna Reddy Professor & Head, Dept. of Civil Engineering, GRIET, Hyderabad & Dr. K. Srikanth Assoc. Professor, Dept. of CE, GRIET	96
6	3D Printing for Sustainable Development	25-10-2021 to 30-10-2021	Dr. G. Janardhana Raju Dean, School of Engineering, Nalla Narasimha Reddy Education Society's Group of Institutions	142
7	Covid-19 Data Analysis with Deep Learning	08-11-2021 to 15-11-2021	Dr. K. Anitha Sheela Professor & Head, Dept. of ECE JNTUH CEH	94
8	Teaching English	08-11-2021 to 15-11-2021	Dr. V. Parvathi Professor & Head, Dept. of H & SS, JNTUH CEH	73
9	Digital Resource Management in Libraries	29-11-2021 to 04-12-2021	Mrs. V. Lalitha Assistant Professor in L.I.Sc., University Library, JNTUH, Hyderabad	56
10	Role of Statistics in Machine Learning and Data Science	29-11-2021 to 04-12-2021	Dr. V. Suseela Triveni Professor of Mathematics Geethanjali College of Engg & Tech., Hyderabad	90
11	Novel Materials and Energy Storage Devices for Environment and Health Care Applications	24-01-2022 to 31-01-2022	Dr. Padmavathi Papolu Assistant Professor, Dept. of H & S, VNR VJIT, Hyderabad	53

WORKSHOPS

S. No	Title of the Programme	Duration	Coordinator	No. of participants
1	Workshop on "AICTE Quality Initiatives and Funding Opportunities"	29-10-2021	Dr. G.K. Viswanadh Professor of Civil Engineering & Director, UGC-HRDC, JNTUH	90
