



NEWS LETTER 2022-23

Directorate of Sponsored Research, JNTUA



Prof. G. Ranga Janardhana, Vice-Chancellor JNTUA

STAFF

Dr. R. Padma Suvarna

Prof. of Physics & Director, Sponsored Research.

Supporting Staff

Junior Assistant

Sri. H. Nagaraju

Office subordinate

Smt. B. Saraswathi

Sri. D. Mahendra

To have an institutional research information system and to create a conducive environment for enhancing research productivity, Sponsored Research Cell was established in the year 2022. Directorate of Sponsored Research develops an institutional research information system for sharing the status of ongoing /completed research projects. It communicates the information about funding opportunities to faculty to support their research interest. It plays a pivotal role in strengthening the research eco system in the institution and also in catalysing inter-disciplinary and multi-disciplinary research culture.

- As a campus outreach initiative of sponsored projects, an awareness program on research projects has been conducted by the Directorate of Sponsored Research on March 26, 2022. Guest of Honour & Resource person Dr. D. R. Prasada Raju, former scientist in Department of Science & Technology, Government of India, New Delhi has given an extensive talk on various research funding agencies that are available and also on preparing an effective research proposal. Different research schemes, fellowships, schemes for women in various funding agencies are also enlightened. Nealy 150 participants from affiliated colleges and College of Engineering, Anantapuramu has attended the program.



- Arranged a guest lecture on “improving research competencies” on 23rd April, 2022.
- Arranged a guest lecture on “writing effective research proposals ” on 18th June, 2022.
- Arranged an interactive session with the research advisor of the University, Dr.D.R.Prasada Raju to discuss and review the research proposals of FIST on 26th July, 2022.



- Arranged an interactive session with the research advisor of the University, to discuss about a new research scheme SURE(State University Research Excellence) on 18th August, 2022.
- Conducted a workshop to the faculty of JNTUA CE Pilivendula and JNTUA CE Kalikiri on “writing skills of effective proposals” on 24th September,2022.
- Arranged an interactive session with the research advisor of the University, with the faculty of mechanical engineering regarding presentation for FIST on 13th October, 2022.
- A one-day workshop on “Writing R & D Grant Proposal” has been conducted by the Directorate of Sponsored Research on 11th January, 2023. Resource persons Dr. Rajiv K Tayal and Dr. D. R. Prasada Raju, former scientists in Department of Science & Technology, Government of India, New Delhi has given an extensive talk on Research funding, Evaluation of Research Grants, Research insights, Defending a research grant and Implementation of research grant. Group activity is also conducted for the participants. 25 participants from JNTUA College Engineering Anantapur and JNTUA College Engineering Pulivendula has attended the program.



- Organized an interactive session with Research advisor of JNTUA, Ananthapuramu in the months of February and march, 2023. Many faculty interacted with him regarding the submission of research proposals for DST- Core Research Grant and TARE (Teachers Associateship for Research Excellence).



- Organised an interactive session with Research advisor of JNTUA, Ananthapuramu on July 7th, 2023 for reviewing the proposals from the faculty of all departments which are about to submit for DST- STI Hubs for the development of SC and ST communities.
- Organised an interactive session with Research advisor of JNTUA, Ananthapuramu on September 2nd, 2023 for reviewing the proposals from the faculty of all departments who are about to submit for **UGC (Research Grant 2023 for Inservice Faculty Members) and DST-TIDE** schemes.



RESEARCH SEED GRANT:

- JNTUA is providing a research seed grant of one lakh rupees for young faculty for developing research facilities, publications and patenting.
- Till now research seed grant has been given to the following faculty during 2022-2023.

Sl.No	Name of the Faculty & Address	Date of Grated	Amount
1	Dr.R.Manjula Department of English, JNTU CEA	SEPTEMBER,2022	20,000/-
2	Dr.N.Vijayalakshmi Department of Bio-Tech, JNTUA OTPRI	SEPTEMBER,2022	1,00,000/-
3	Dr.N.Saritha Department of Chemistry, JNTU CEK	SEPTEMBER,2022	1,00,000/-
4	Dr.A.Sailakumari Department of Mathematics, JNTU CEA	SEPTEMBER,2022	90,000/-
5	Dr.A.Aruna Department of Chemistry, JNTU CEA	SEPTEMBER,2022	1,00,000/-
6	Dr. M. Kalyan kumar Assistant professor Department of Chemical Engineering, JNTUA CEA	OCTOBER,2022	1,00,000/-
7	Dr.M.Sambaiah Assistant professor Department of Humanities, JNTUA CEP	OCTOBER,2022	50,000/-
8	Dr.J.Srinivasulu Assistant professor Department of EEE, JNTUA CEA	FEBRUARY, 2023	1,00,000/-
9	Sri. S.Sridhar Assistant professor Department of EEE, JNTUA CEA	FEBRUARY, 2023	1,00,000/-
10	Dr. M. Anka Rao Assistant professor Department of EEE, JNTUA CEA	FEBRUARY, 2023	1,00,000/-
11	Mr. S. Hussain Vali Assistant professor Department of EEE, JNTUA CEP	FEBRUARY, 2023	1,00,000/-
12	Dr. K. Aparna Assistant professor Department of ECE , JNTUA CEK	FEBRUARY, 2023	1,00,000/-
13	Dr.K. Kalyani Radha Assistant professor Department of Mechanical Engineering, JNTUA CEA	JULY,2023	1,00,000/-
14	Dr. D.R. Srinivasan Assistant professor Department of Mechanical Engineering,	JULY,2023	1,00,000/-

	JNTUA CEA		
15	Dr.S.Radha Krishna Assistant professor Department of Computer Science Engineering JNTUA CEP	JULY,2023	1,00,000/-
16	Dr.S.Jessica Saritha Assistant professor Department of Computer Science Engineering JNTUA CEP	JULY,2023	1,00,000/-
17	Dr.G.Murali Assistant professor Department of Computer Science Engineering JNTUA CEP	JULY,2023	1,00,000/-

PATENTS GRANTED:

Following faculty received patents during 2022-2023

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Faculty Name	Title of the Patent	Patent Published Date / Granted Date (MM/DD/YY YY)	Patent Publication Number / Patent Granted Number
1	202141011029	Granted	Dr.G.Prasanthi	A New Method To Fabricate Different Layered Al7075/Sic Functionally Graded Materials Using Powder Metallurgy Technique	11/14/2023	468849
2	201641022594	Granted	Prof.R.Bhavani	System and method for generating high power by utilization of minimal input and pressurized water	9/20/2023	452906
3	202023105189	Granted	Prof.E.Keshava reddy	An artificial intelligence and machine learning based system for bio-statistical profit making decisions	9/19/2023	G06N 20/00
4	202023102593	Granted	Prof. R.Padma Suvarna	A system for synthesizing Ba _{1-x} Cu _x Fe ₁₂ O ₁₉ (x=0.2-0.8) nanoparticles	6/14/2023	C01G 49/06
5	202023102510	Granted	Prof. R.Padma Suvarna	A system for synthesizing(1-x)(Al _{0.2} La _{0.8} TiO ₃₊₈)+(X)(CuTiO ₃) nanocomposites and optimizing its dielectric behaviour at highfrequency	6/15/2023	C01G 23/04
6	201641010384	Granted	Prof.H.Sudarsana Rao	Methods for preparation of Bacterial Concrete with self healing abilities and products there of	1/6/2023	12/30/3041
7	2938/CH E/2012	Granted	Dr. Subrahmanyam Ramachandrula	Improved Transformer With High Energy Efficiency	10/11/2022	44145459

8	4414/CH E/2015	Granted	Prof S.Krishnaiah	Measurement of Bituminous Binders in Rotational Mode through indirect measurement of Torque	9/21/2022	407252
9	2019410 54213	Granted	Prof. V. Sumalatha	Intelligent Customer Care Center	4/12/2022	44140380

PROJECTS RECEIVED:

Following faculty received research grants from MoRTH and DST during 2022-2023.

Sl. No	Name of the faculty	Title of the project	Amount sanctioned in Rs.	Funding agency
1	Prof.C.Sashidhar, Prof.P.R.Bhanumurthy	Utilisation of natural rubber in road construction	1,75,23,000/-	MoRTH
2	Dr.Omprakash	CFD analysis and experimental validation of heat flow around spherical shperes filled with phase change energy storage materials	37,52,232/-	DST-SERB
3	Dr.Kalyani Radha, Dr.Omprakash	Rocker bogie mecahanised vehicle for metal, obstacle detection and medicine transporter in defence services operated by solar energy	11,90,750/-	DST-SERB - SURE

MULTIDISCIPLINARY RESEARCH:

JNTUA is encouraging interdisciplinary/multidisciplinary research through collaborations among various departments in the university and also with neighbouring institutions through cluster. The objectives of the cluster are to identify the regional/local problems and to suggest a solution through collaborations among member institutions.

Research groups were identified to pursue research on societal problems:

- One with the food technology and management faculty **to find alternative ways for storage**, establishment of processing industries.
- Other with the Civil engineering faculty to conduct research on **usage of stone dust in place of sand**.

Steps have been initiated to conduct collaborative research with the University of Melborne, Australia. Accordingly, some of the thrust areas have been identified to conduct joint research.

