



Newsletter (2020-2021)

Department of Chemistry JNTUH University College of Engineering, Kukatpally, Hyderabad (T.S.) – 500085 INDIA.



Greetings from Department of Chemistry, JNTUH.

The Department of Chemistry was established at the inception of the Jawaharlal Nehru Technological University Hyderabad. The Department of Chemistry has become one of the important science departments of the University. The department also has dedicated and enthusiastic group of faculty members involved in research activities at the Ph.D level. The areas include Synthetic Organic Chemistry, Spectroscopy, Inorganic Metal-Complexes, Analytical Chemistry and Natural Products of Biological importance. The department has grants from CSIR, UGC. The Department of Chemistry stood as one of the highly prolific institutions carrying research in organic chemistry from 2010 to till today.

VISION:

The Department is committed to raise the intellectual tone of the young students in understanding and incorporating the basics of rapidly progressing changes in the fields of Science & Technology, with an objective of enhancing their competence by applying their proficiency and skill for industrial and economic development by creating better living environment in the society.



Dr. M. Thirumala Chary,
Professor & Head
Depat. Of Chemistry, JNTUH.

MISSION:

- To identify, scientifically evaluate and implement proven, prevention-oriented, forward-looking solutions to critical scientific and technological problems.
- To make technology a principal instrument of economic development of the country and to improve the quality of life of the people through technological education, innovation, research, training and consultancy.
- The Department has a small but enthusiastic group of Teaching Faculty who has taken to teaching of Chemistry and Chemical research wholeheartedly. The Department has good laboratories and infrastructural facilities with financial inputs from the University, the College, the UGC and CSIR.

THE GOALS:

- To strengthen the edifice of Engineering and Technological Education on the four pillars teaching, research, training and consultancy.
- To play the lead role in harnessing and developing human resources towards economic, industrial, management through Chemistry.
- To attain technical excellence.
- To stimulate, support and collaborate in R & D efforts with industry.
- To pioneer and actively participate in evolving appropriate technologies.
- To develop native genius for the development of rural India.
- To adhere to the ethics of instruction.






INNOVATIVE PRACTICES ADOPTED:

- ❖ To incorporate field experiences and field problems in lectures.
- ❖ To involve students in consultancy projects.
- ❖ To give practical oriented live projects for students as their project works.
- ❖ To take students to sites where some important and latest techniques are used to give latest technology exposure to students.
- ❖ To arrange guest lecturers of well-known researchers from various institutes across the globe for the benefit of the students

Courses offered by Dept. of Chemistry during 2018-19:

1. B.Tech – I year – Applied Chemistry (all branches)
2. B. Tech – II Year – Analytical & Organic Chemistry (Chemical Engineering)

Faculty of the Department

S.No	Name	Designation	Photo
1	Dr. Bhoomi Reddy Rama Devi	Professor	
2	Dr. Aparna Pasula	Assistant Professor	
3	Dr. Thatituri Sabithakala	Assistant Professor	
4	Prof. M. Thirumala Chary	Professor & Head of the Department	
5	Dr. Taduri Ashok Kumar	Assistant Professor (C)	

FACULTY ACHIEVEMENTS:

Number of Ph.Ds awarded during 2020-21:

S.No.	Name of the PhD scholar	Name of the Department	Name of the guide	Year of registration	Year of award of the PhD
Dr. B. Rama Devi:					
1.	B. Mahesh Goud	Chemistry	B. Rama Devi	2015	2020
Dr. P. Aparna:					
2.	V . Durga Prasad	Chemistry	Co-guide	2011	2020
3.	Kotthireddy Kavitha	Chemistry	Dr. P. Aparna	2015	2020
4.	Yakaiah Sargam	Chemistry	Co-guide	2012	2020
Dr. M. Thirumala Chary:					
5.	K.Y.Kiran Kumar	Chemistry	Dr. M. Thirumala Chary (Co-Supervisor)	2011	2020
6.	Kishore Kumar	Chemistry	Dr. M. Thirumala Chary	2015	2020

Number of research papers published during 2020-21:

Dr. B. Rama Devi, Professor:

S.No.	Title of the paper	Name of the authors	Name of the journal	Year	Type of publication
1.	A Simple, Specific, Mass Compatible and Validated Gas Chromatographic Method for the Estimation of Piperidine-3-amine Content in Linagliptin Finished and Stability Samples	B. Janaki Durga Prasad Nagi Reddy Vuyyuru, A. Malleswara Reddy, B. Rama Devi, Y. Ravindra Kumar	Asian Journal of Chemistry	2020	Int
2.	Synthesis and Characterization of Potential Impurities of Eltrombopag Olamine	Bhoomireddy Rama Devi Katujoju Srinivasachary, Chennuri Rahesh, Shashikant Tiwari, Y.S. Somannavar, Sailendra Kumar Nadakudity, Krishna Murthy V.R. Moturu, Syamala Bhanuchandar	Asian Journal of Chemistry	2020	Int

Dr. M. Thirumala Chary, Professor:

S.No.	Title of the paper	Name of the authors	Name of the journal	Year	Nat./Int
1.	A simple, sensitive, high resolution, customized reverse phase ultra high performance liquid chromatography method for related substances of a therapeutic peptide using qbd approach.	Kiran kumar, Venugopal rao, Thirumala Chary	Analytical methods	2020	Int
2.	Microwave Assisted Synthesis of 3-Chloro-N-(2-(5-chloro-1-tosyl-1H-benzo [d] Imidazol-2-yl) ethyl)-N-Substituted Quinoxalin-2-Amine Derivatives Using DCQX.	Shashikala Ramesh Laxminarayana, Thirumala Chary	Organic chemistry plus	2020	Int
3.	Synthesis, biological evaluation and docking studies of (4-Aryl-3-methyl-4,5-dihydropyrazolo[3,4-c]pyrazol-1(3aH)-yl)(3-hydroxyquinoxalin-2-yl)methanones	Rajani Devi Laxminarayana, Thirumala Chary	Indian Journal of Chemistry (B)	2020	National
4.	Synthesis, biological assay and docking studies of 2-(4,5-dihydro-3-substituted-1H-pyrazol-5-yl)-3-methoxyquinoxaline	Rajani Devi Laxminarayana, Thirumala Chary	Indian journal of Heterocyclic Chemistry	2020	National

Dr. T. Ashok Kumar, Assistant Professor (C):

S.No.	Title of the paper	Name of the authors	Name of the journal	Year	Type of publication
1.	A simple and facile synthesis of novel 1,2,3-triazole substituted pyrimidine derivatives	Mahesh Goud Bakkolla, Ashok Kumar Taduri, Rama Devi Bhoomireddy	Journal of Heterocyclic Chemistry	2020	Int

Bibliometrics of the publications during 2020-2021:**Dr. B. Rama Devi, Professor:**

S.No.	Title of the Paper	Name of the authors	Title of the Journal	Year of publication	Citation Index
1.	A simple and facile synthesis of novel 1, 2, 3- triazole substituted pyrimidine derivatives	Mahesh Goud Bakkolla, Ashok Kumar Taduri, Rama Devi Bhoomireddy	Journal of Heterocyclic Chemistry	2020	1

Dr. P. Aparna, Assistant Professor:

S.No.	Title of the Paper	Authors	Journal Name	Year	Citation Index
1.	Discovery of DB18, a potent inhibitor of CLK kinases with a high selectivity against DYRK1A kinase	Dabbugoddu Brahmaiah , Anagani Kanaka Durga Bhavani , Pasula Aparna , Nangunoori Sampath Kumar , H��l��ne Solhi , R��my Le Guevel , Blandine Baratte , Sandrine Ruchaud , St��phane Bach , Surender Singh Jadav 8, Chada Raji Reddy , Thierry Roisnel , Paul Mosset , Nicolas Levoine , Ren�� Gr��e	Bioorganic & Medicinal Chemistry	2020	2
2	Synthesis and biological studies of new piperidino-1,2,3-triazole hybrids with 3-aryl isoxazole side chains	Appala Venkata Ramana Murthy, Vennu Narendar, Nangunoori Sampath Kumar, a Pasula Aparna, Anagani Kanaka Durga Bhavani, H��l��ne Solhi, d R��my Le Guevel, Julie Roule, , Fabien Gautier, Philippe Juin, Chada Raji Reddy, Paul Mosset, Nicolas Levoine, Ren�� Gr��e, h*	Bioorganic & Medicinal Chemistry Letters,	2020	2
3	An efficient one-pot four-component Gewald reaction: Synthesis of substituted 2-aminothiophenes with coumarin-thiazole scaffolds under environmentally benign conditions	Kotthireddy Kavitha, Devulapally Srikrishna, Pramod Kumar Dubey, Pasula Aparna	Journal of Sulfur Chemistry	2020	10

Dr. T. Ashok Kumar, Assistant Professor (C):

S.No.	Title of the Paper	Authors	Journal Name	Year	Citation Index
1.	A simple and facile synthesis of novel 1, 2, 3- triazole substituted pyrimidine derivatives	Mahesh Goud Bakkolla, Ashok Kumar Taduri, Rama Devi Bhoomireddy	Journal of Heterocyclic Chemistry	2020	1

Faculty Development Programmes (FDP) attended during 2020-21:**Dr. B. Rama Devi, Professor:**

S.No.	Name of the teacher	Title of the Program	Duration (From-To)
1.	Dr. B. Rama Devi	E-Symposium on Recent Trends on Applications of Chemistry in Engineering (RTACE -2021)	4-6 th June 2021
2.		3day workshop on Preparing for UG Program Accreditation under IQAC, Sponsored by TEQIP-III	12 th -14 th August, 2020.
3.		„LEAD INDIA – Live Webinar on „Imapct of CoVid-19 on the future of higher education“	4 th July, 2020
4.		„LEAD INDIA – Live Webinar on „Impact of CoVid-19 on the development of rural economy-challenges and opportunities“	July 27, 2020
5.		Two-day faculty development programme on Frontiers in Engineering Chemistry organized by CVR College of Engg, Hyderabad	24 th January, 2020

On-line Conferences Organized:

S.No.	Name of the teacher	Title of the Program	Duration (From-To)
1.	Dr. B. Rama Devi, Convener, NCACACE-21	National Conference on Advances in Chemistry and Chemical Engineering. (NCACACE-21) as Convener	January 28-29 th 2021

Dr. P. Aparna, Assistant Professor:

S.No	Title of the paper/lecture presented	Title of Conference / Seminar	Organized by	Year	Int/Nat.
1.	One-pot as well as multi-step synthesis of n-alkylated (Z)-3- (1H-indole-3-yl)-2-(4-(2-oxo-2H-chromen-3-yl)thiazol-2-yl)acrylonitriles under green reaction pathways and evaluation of their anti-hepato cellular carcinoma studies with molecular docking	National Conference on Advances in Chemistry and Chemical Engineering	Department of Chemistry & Chemical Engineering JNTUH - CEH	2021	National
2.	Session Chair	National Conference on Advances in Chemistry and Chemical Engineering	Department of Chemistry & Chemical Engineering JNTUH - CEH	2021	National

Dr. T. Sabithakala, Assistant Professor:**FDP's attended (online):**

S.No.	Name of the teacher	Title of the Program	Duration (From-To)
6.	Dr. T. Sabithakala, Asst. Professor	Webinar on "10 Essential Scholarly Publishing Tips from an ACS Editor"	03-06-2020.
7.		Webinar on "Covid-19 on the future of higher education-Challenges and opportunities	4-7-2020
8.		Webinar on "Employability PostCOVID Era: Expectation of Industry Vs Education System's Preparedness"	11-7-2020
9.		Workshop on Spectral Analysis of Organic Molecules National Institute of Pharmaceutical Education and Research (NIPER)	16th & 17th July 2020.
10.		DST & ACS virtual workshop On Mastering the publishing process	July 28, 2020
11.		International webinar on quantum and nano particles for advanced applications	06 th August, 2020
12.		3- day online workshop on preparing for UG program accreditation	12-14 th August, 2020
13.		International webinar on Biomedical product development- challenges and opportunities	4 th Sep, 2020

Orientation and Refresher Course attended:

S.NO	Name of the Course / Summer School	Place	Duration	Sponsoring Agency
1.	FDP on managing online classes and co-creating MOOCs	Online	2 Weeks 18-05-2020 to 03-06-2020	Ramanujan College, Delhi
2.	FDP on open source tools for research	Online	1 Weeks 08-06-2020 to 14-06-2020	Ramanujan College, Delhi
3.	FDP on Material science and nanotechnology(FDP-MSNT-2020)	Online	2 Weeks 03-08-2020 to 17-08-2020	Dept. of Chemistry, B&B.Abdur Rahman Crescent Institute of Science and Technology, Chennai.
4.	Science and technology of Advanced materials(STAM-2021)	Online	1 Week 22-02-2021 to 26-02-2021	AICTE, Dept. of basic & applied science, NIT- Arunachal Pradesh
5.	Two-week Online Refresher Course on "Novel Therapeutic Approaches in Drug Discovery & Development against Pandemic Diseases"	Online	01/03/2021 to 16/03/2021	UGC-HRDC, JNTUH, Hyderabad

List of Conferences and seminars conducted:

S.No.	Name of the teacher	Title of the Program	Duration (From-To)
1.	Dr. T. Sabithakala, Asst. Professor	UGC sponsored one- week online short term course on "Modern methods in Organic Synthesis and Analytical Techniques	30-08-2020 to 06-09-2021.
2.		Two day National conference on "Advances in chemistry and Chemical Engineering (NCACACE-2021)	28-29 th Jan, 2021
3.		Session chair for technical session in Two day National conference on "Advances in chemistry and chemical engineering (NCACACE-2021)	28-29 th Jan, 2021

S. No.	Name of the Dept./Centre	Name of the Faculty & Designation	Nature of the Event	Title of the Event	Duration	Grant released for conduct	No. of Participants
1	Chemistry	Dr. B. Rama Devi, Head & BOS Chairperson, Professor of Chemistry	National Conference	National Conferences on Advances in Chemistry And Chemical Engineering (NCACACE-21)	02 Days, 28th - 29th, January - 2021	Rs. 80000	100
2	Class Review Committee	Dr. B. Rama Devi, Head & BOS Chairperson, Professor of Chemistry	Online Induction Programme for B.Tech I Yr. Students	Convert Potential into Performance	01 Day, 20th March, 2021	NIL	>100
3	Class Review Committee	Dr. B. Rama Devi, Head & BOS Chairperson, Professor of Chemistry	Online Induction Programme for B.Tech I Yr. Students	Scope of Engineering - Need of skills - Role of Alumni	01 Day, 27th, March 2021	NIL	>100
4	UGC-HRDC	Dr. T. Sabithakala & Asst. Professor of Chemistry	Online Short term course	Modern Methods in Organic Synthesis and Analytical techniques	07 Days, 30th Aug-06th Sept, 2021	NIL	>100
5	UGC-HRDC	Dr. P. Aparna & Asst. Professor of Chemistry	Online Short term course	Modern Methods in Organic Synthesis and Analytical techniques	07 Days, 30st Aug-06th Sept, 2021	NIL	>100

Dr. T. Ashok Kumar, Assistant Professor (C):

Papers presented in a conference:

1. Green Catalysis: Syntheses and anti-cancer evaluation of some new 2-heterostyrylbenzimidazol using triacetylborate-glycerol, A Two day National conference on “Advances in chemistry and Chemical Engineering (NCACACE-2021), 28-29th Jan, 2021.

Value Added Programs attended:

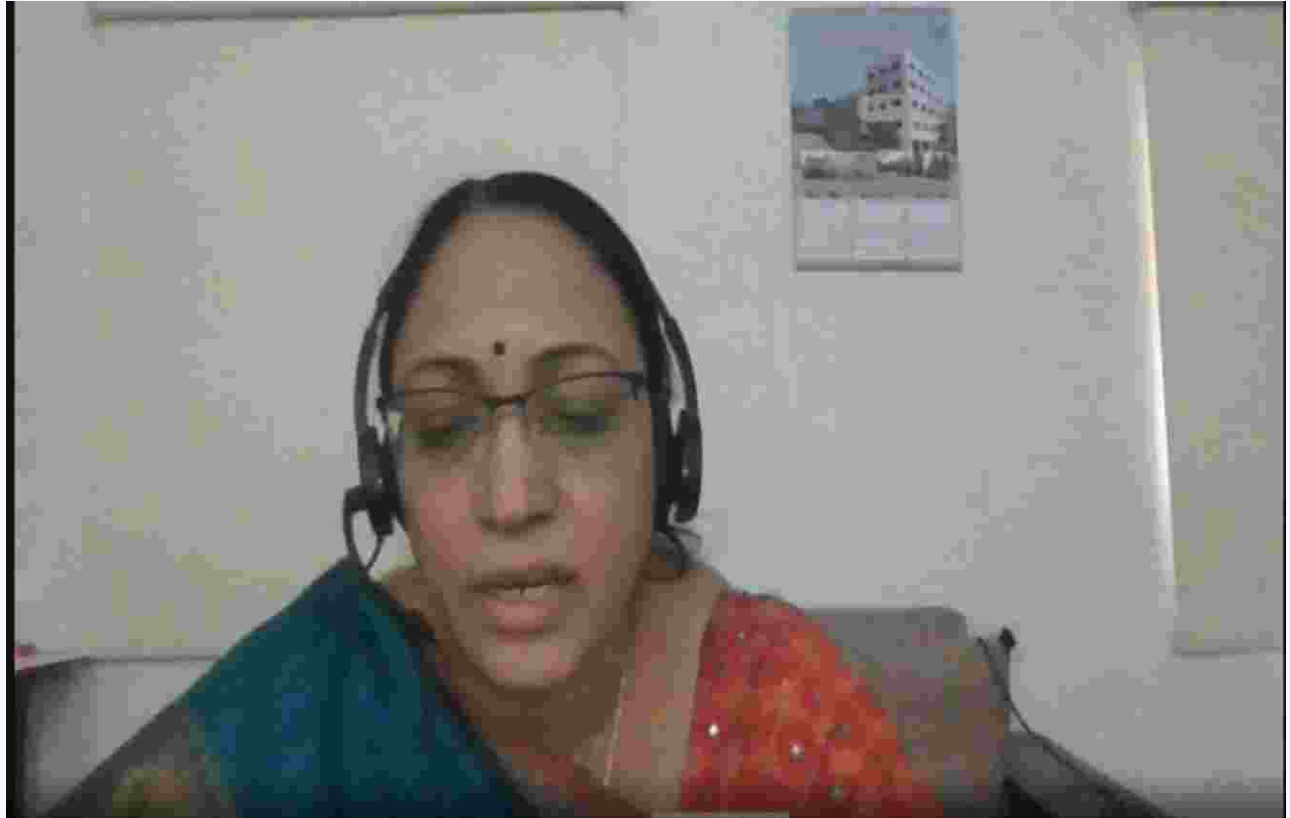
S.No.	Name of the teacher	Title of the Program	Duration (From-To)
1.	Dr. T. Ashok Kumar, Asst. Professor (C)	Reimagining How to Sustain Student Engagement & Learning – Virtually	June 23, 2020
2.		Adopting Digital Methods in Teaching	June 23, 2020
3.		How to improve teaching skills	June 24, 2020
4.		Digital teaching Tools	29 th June 2020 to 5 th May, 2020
5.		Advancements in Science and its Applications in Engineering	22 June to 26 th June, 2020
6.		Recent Advances in Chemical Sciences	22 nd June – 28 th June, 2020
7.		Materials Processing and Technology	June 27, 2020
8.		3 day TTT Program on Modern Online Tools and Software for Remote Teaching and E-Content Development	04 th -06 th August, 2020

Seminars/Conferences organized:

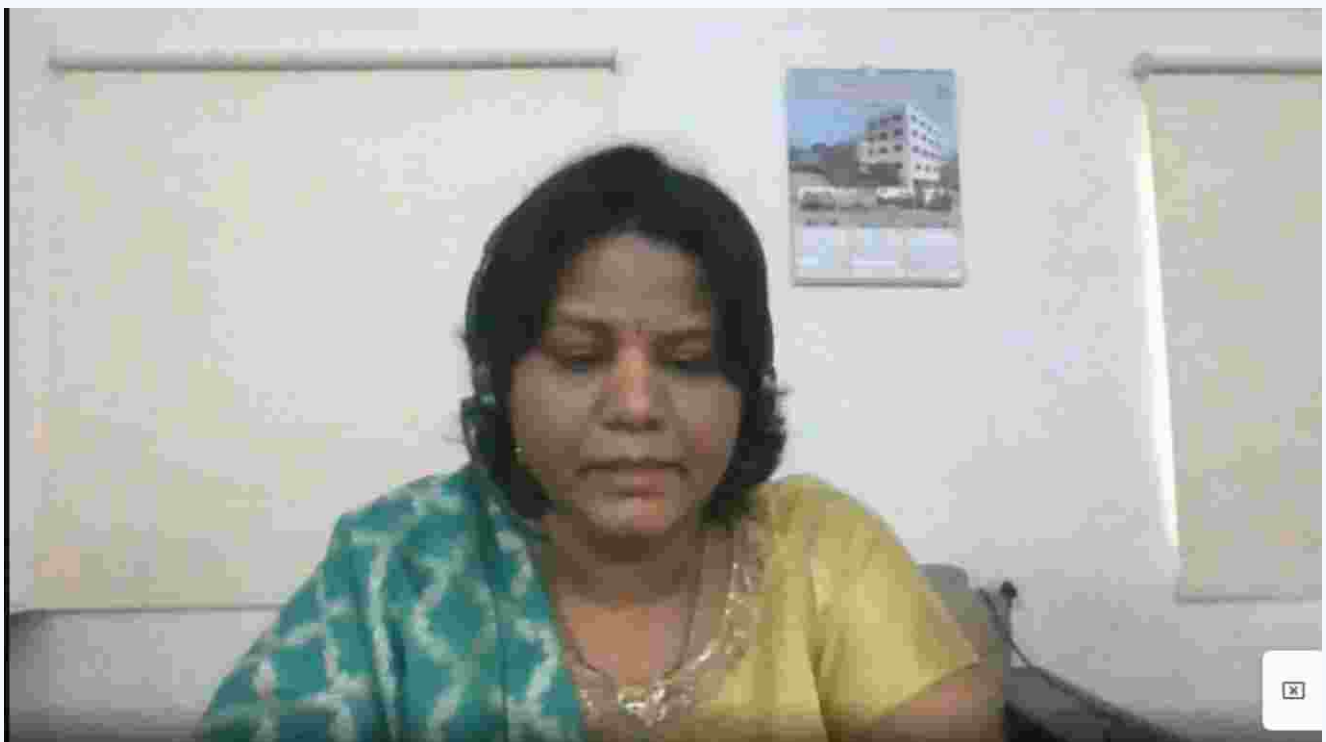
A Two day National conference on “Advances in chemistry and Chemical Engineering (NCACACE-2021), 28-29th Jan, 2021.

Highlights:

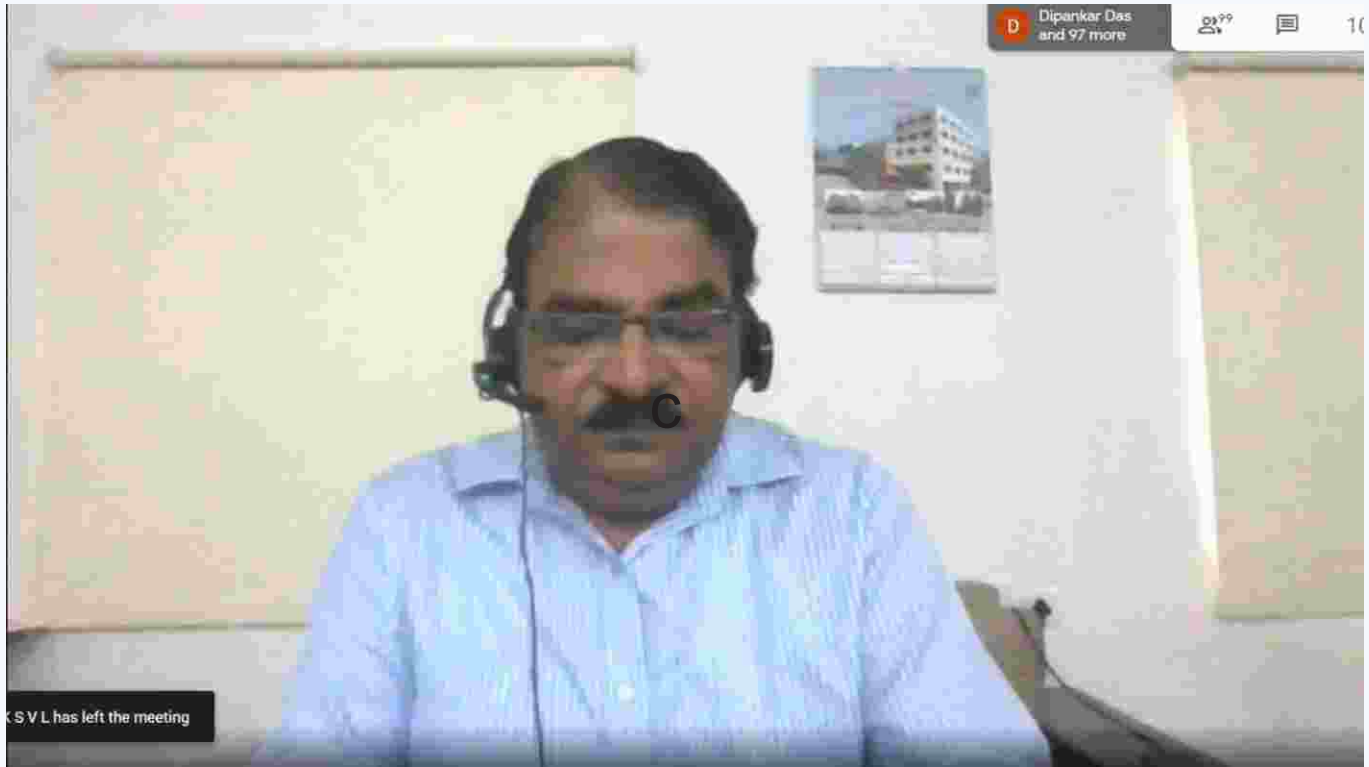
- Six speakers delivered invited talks who represented reputed institutions such as IICT, NIT's, IIT's and Universities from various parts of the country.
- More than 100 delegates were attended on the first day along with the registered participants.
- 25 research papers have been selected for oral presentations which were organized virtually using “Google Meet” platform.
- Three best oral paper presentations got selected for “best oral presentation” award.
- 10 Professors from both JNTU Hyderabad and JNTU Jagityala chaired all the sessions.
- Faculty members of Dept. of Chemistry & Dept. of Chemical Engg, JNTU Hyderabad and JNTU Jagityala organized the 2 day National conference successfully.



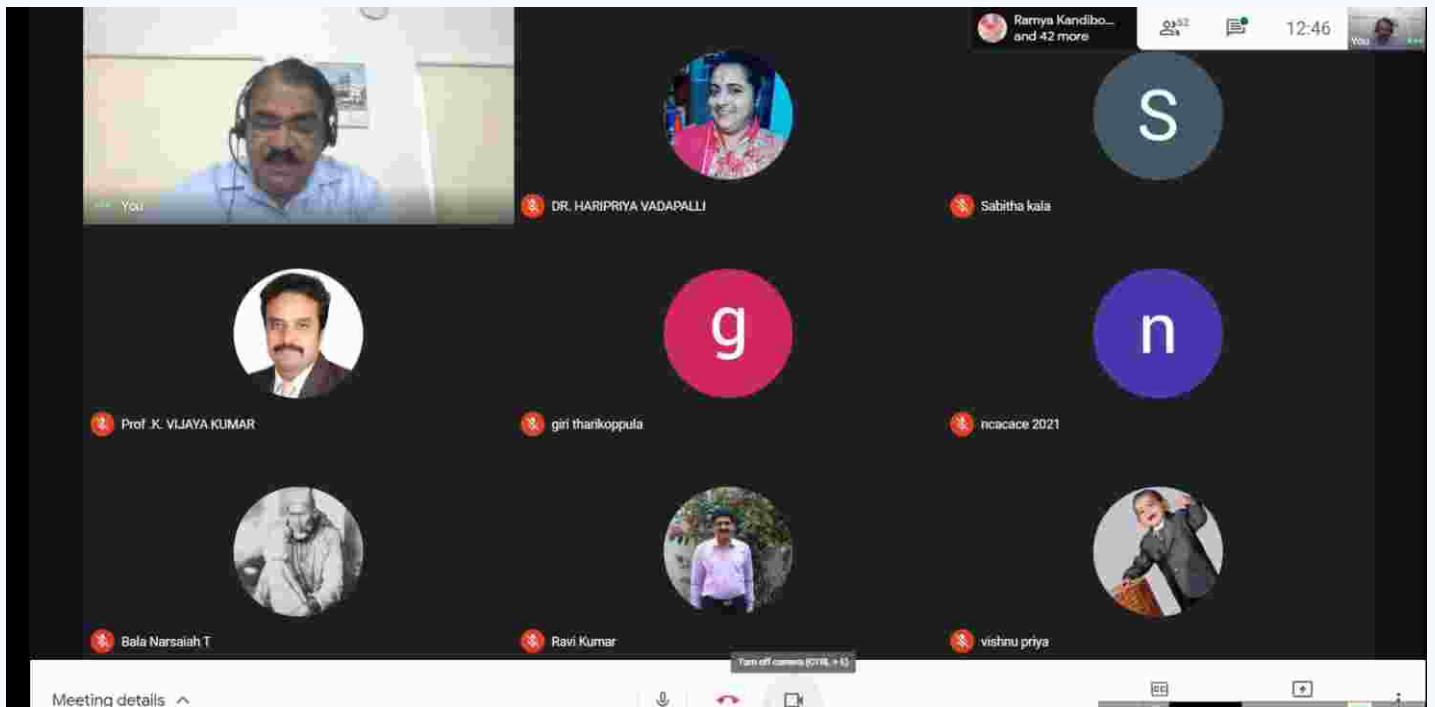
Dr. B. Rama Devi, Convener addressing the session, NCACACE-21



. P. Aparna, Co-ordinator addressing the session, NCACACE-21



Dr. M. Thirumala Chary addressing the session, NCACACE-21



Sessions, NCACACE-21