

FORMAT –B

To be filled by Head of the Department of Campus / Constituent Colleges

OSMANIA UNIVERSITY

104 Annual Report for the Year 2022 – 2023

(01.04.2022 to 31.03.2023)

1. (a) Name of the Department and its profile (not more than 500 words) : CHEMISTRY
(b) year of Establishment : 1917
2. Name of the College : University College of Science
3. Name of the Head with Qualification : Prof. B. Manohar, M.Sc., Ph.D
- 4 - **Brief Report on Academic and Research aspects during the year (*about 2 pages on each item*)**
 - 4.1 Academic Schedule of UG and PG courses - **Common Schedule of University is followed**
 - 4.2 Introduction of new courses and updating syllabi: None
 - 4.4 MoUs / Collaboration with National / International institutions: None
 - 4.6 Research projects – (i) Sanctioned during the year, (ii) Completed during the year and (iii) In progress during the year
(Mention number only)

Sl.No	Department	Name of the Teacher	Major Project(or) Minor Project	Project title	Sponsoring agencies	Amount Rs.	Duration	Ongoing /Completed	Sanctioned Date/Completed Date
1	2	3	4	5	6	7	8	9	10

1	Chemistry	Dr P Saritha Reddy	Minor	“Green route for efficient synthesis of fluorine containing Schiff bases and their complexes as potent Bio active agents: DNA interaction, Docking, In vitro antimicrobial screening and Cytotoxic studies	DST-PURSE program	2,35,000	3 years	completed	2019 -2022
2.	Chemistry	Dr. B. Vijaya Kumar	Major	Development of tunable p-n heterojunctions for gas sensing and photocatalytic applications	DST-SERB		3 Years	Ongoing	
3.	Chemistry	P. Muralidhar Reddy	Major	Development of a graphene-based direct Naisal cell-based mass spectrometry technique for the detection of biomarker molecules	Ministry of Science and Technology (MOST), R.O.C., Taiwan	9,48,250 (NTD) Rs. 25, 52, 106/-	2022-2023	Ongoing	August 1, 2022

4.	Chemistry	P. Muralidhar Reddy	Minor	Development of a Rapid and Cost-effective Advanced Mass Spectrometry Approach for the Evaluation of Vitamin D Deficiency	Project Related Grants (PRG), DST, GoI & TSCOST	4,00,000	2022-2023	Ongoing	March 21, 2022
5.	Chemistry	P. Muralidhar Reddy	Minor	Development and Standardization of Immunity Boosting Polyherbal Infusion Bags	Project Related Grants (PRG), DST, GoI & TSCOST	4,00,000	2022-2023	Ongoing	March 21,2022
6.	Chemistry	Dr. Someshwar Pola, Co-PI	Major	Development of Multiferroic tapes for Sensing and Energy Harvesting Applications	DMRL-DRDO	15,71,570	2021-2024	Ongoing	
7.	Chemistry	Prof. M Vijjulatha	Major		DST SERB Empowerment and Equity Opportunities for Excellence in Science	Rs. 42 Lakhs	2019-2023	Ongoing	

4.7 Academic distinctions / reputation of the Department

- The Department received grants from various funding agencies such as UGC, UPE, DST-FIST, CSIR etc.
- It is a Nodal Centre for facilitating Ph.D. Programme in Chemistry for candidates from IICT, Dr. Reddy's Laboratory Pvt. Ltd., DRDL, DMRL, Mylan Laboratories, Hyderabad etc. due to low cost, simple procedures and above all the facilitating attitude of the Dean's office and The Department of Chemistry.

4.8 Conduct of Seminars / Workshops / Training Programs

S.No.	Title of conference/Seminar/Workshop	Date	Funding Agency
1	Two-day International Seminar on "Current Trends and Futuristic Challenges in Chemical Research"	29th & 30th July 2022	TSCHE, RUSA 2.0, OUCF, UGC-OU
2	STUTI – A One Week workshop was organized in collaboration with NIT-Warangal on "Characterization of Materials/Compounds by using Advanced Instruments"	16 th – 22 nd July 2022	DST, India

4.10 Journals published by the University departments / faculty and Books published by the Publication Division of the University / other publishers: **-NIL-**

4.11 Endowment lectures organized during the year: **-NIL-**

4.12 Development and use of e-learning packages / tools

- Use of software programmes – Arrange Lab, Hyperchem, chemaxon etc.
- Reference work by availing internet facilities.
- Use of Microsoft word, excel and power point etc. for documentation.
- Molecular Modeling Using Open-Source Software's – Manual (For Beginners) Prof. M. Vijjulatha, Dr. S. Sree Kanth and Dr. S. Gururaj.

4.13 Best practices in teaching and research

- ✚ Demonstration through Models.
- ✚ Power point presentation of a topic after completion of teaching of a course.
- ✚ Conducting seminars.
- ✚ Arranging Guest Lectures.
- ✚ Illustration of Scientific exhibits.
- ✚ Assignments in Course works
- ✚ Tours to industries viz., Hetero Drugs etc and Institutions such as ARCI, CSIR-IICT etc.

5 - Brief Report on Contribution of the Teaching Staff (about 2 pages on each item)

5.1 Research papers published in ISSN Journals and Impact factor & citation index analysis

Research papers published in ISSN Journals and Impact factor & citation index analysis:
(Pls see enclosed **Annexure I**); No. of Research papers published: **86**

H-index of the Teachers

S.No.	Name of the Faculty	H-index
1	Prof B. Manohar	13
2	Prof. Ramchander	6
3	Prof P. Vijay Kumari	-

4	Prof G. Vijaya Charan	-
5	Prof. P. Saritha Reddy	-
6	Prof. D.A. Padmavati	5
7	Prof. Boda Sakaram	10
8	Prof. A Hari Padmasri	21
9	Prof. B. Sireesha	6
10	Prof. B. Yadagiri	9
11	Prof. P. Jalapathi	-
12	Dr. T. Gangadhar	5
13	Dr P. Muralidhar Reddy	26
14	Dr P Someshwar	17
15	Dr Raju J Reddy	23
16	Dr. K. Laxma Reddy	12
17	Dr. B. Vijaya Kumar	12
18	Dr. M. Kavitha	10

5.1 Research papers published in ISSN Journals and Impact factor & citation index analysis

Sl.No	Department	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication Volumes. Issuee	ISSN number	Impact factor of the journal	Link to the recognition in UGC enlistment of the Journal
1	2	3	4	5	6	7	8	9	10
1	Chemistry	Synthesis and characterization of NiO–Bi ₂ O ₃ nanocomposite material for effective photodegradation of the dyes and agricultural soil pollutants	K. Masula , P. Sreedhar, P. V. Kumar, Y. Bhongiri, S. Pola, Manohar Basude*	Manohar Basude	Materials Science in Semiconductor Processing	160 (2023) 107432	1369-8001	4.10	https://doi.org/10.1016/j.mssp.2023.107432

2	Chemistry	Synthesis of titanates for photomineralization of industrial wastewater and organic pollutants	R. Gade, Manohar Basude, N. B. Simhachalam, Rama Devi V, S. Pola and P.Chetti	Manohar Basude	Environ. Sci.: Water Res. Technol.,	8 (2022) 3065	2053-1419	5.00	DOI: 10.1039/d2ew00469k
3	Chemistry	Enhanced piezo-photocatalytic properties of new salophen based Ti (IV) complexes	R. Vallavoju, R. Kore, P. Radhika, M. Subburu, R. Gade, M. Basude, Someshwar Pola, P. Chetti	Manohar Basude	Inorganic Chemistry Communications	148 (2023) 110272	1387-7003	3.80	https://doi.org/10.1016/j.inoche.2022.110272
4	Chemistry	Synthesis of 1,2,3-Triazole Tethered Indole Derivatives: Evaluation of Anticancer Activity and Molecular Docking Studies	Dharmasothu Veeranna, Lakavath Ramdas, Guguloth Ravi, Sushmitha Bujji, Vishnu Thumma, and Jadav Ramchander	Jadav Ramchander	Chemistry Select	2022	2365-6549	2.307	e WWW under https://doi.org/10.1002/slct.202201758
5	Chemistry	Synthesis, Evaluation, And Molecular Docking Studies of Novel 1, 2, 3-Triazole Tethered Indole Hybrid Derivatives as Potent Anti-Cancer Agent	Dharmasothu Veeranna1, Lakavath Ramdas1, Guguloth Ravi1, Vishnu Thumma2, Jadhav Ramchander	Jadav Ramchander	Heterocyclic Letters	-January 2023	2230 - 9632	0	http://heterocyclicletters.org

6	Chemistry	Synthesis And Biological Evaluation Of 8-Hydroxyquinoline Incorporated Schiff Bases as Antimicrobial Agents	Goli J. Rupasree, Rambabu Sirgamalla, Sakram. B., Yadagiri B. and J. Ramchander*	Jadav Ramchande	World Journal of Pharmacy and Pharmaceutical Sciences	2023			
7	Chemistry	Quinoline and 2-nitroimino-1, 3-diazacycloalkane hybrids: Design, synthesis and insecticidal activity	J.Sowmya, B. Padma and P. Leelavathi	P. Leelavathi	J Indian Chem. Soc	2022 99 (1)	100279	0.25	
8	Chemistry	Microwave-assisted one-pot multicomponent synthesis of 2-(-4-oxo-2-(1-(2-oxo-2h-chromen-3-yl) ethylidene) hydrazono)thiazolidin-5-yl) acetic acid derivatives and their antiviral activity	V. Anjaneyulu, V. Krishnaiah, K. Vermeire and P. Leelavathi	P. Leelavathi	J Heterocyclic Chem.	2022, 1, 1-12		2.1	
9	Chemistry	Nickel–Metformin Ternary Complexes: Geometrical, Thermal, DNA Binding, and Molecular Docking Studies	K. Rajeshwari, P.Vasanth B.Sathish Kumar, P.V.Anantha Lakshmi	Prof. P.V.Anantha Lakshmi	Biological trace element research	2022	1559-0720	4.081	https://doi.org/10.1007/s12011-022-03100-1
10	Chemistry	Novel metformin complexes: Geometry optimization, non-isothermal kinetic parameters, DNA binding, on–off light switching and docking studies	B.Shekhar, K.Rajeshwari, B.Jayasree, P.V.Anantha Lakshmi	Prof. P.V.Anantha Lakshmi	Applied organometallic Chemistry	2022 36(4)	0268-2605	4.105	https://doi.org/10.1002/aoc.6601

11	Chemistry	A Treatise on Furan Cored Schiff Base Cu(II), Ni(II) and Co(III) Complexes Accentuating Their Biological Efficacy: Synthesis, Thermal and Spectroscopic Characterization, DNA Interactions, Antioxidant and Antibacterial Activity Studies	K.Venkateswarlu, A.Rambabu, D.Shiva Shankar, P.V.Anantha Lakshmi, Shivaraj	Prof. P.V.Anantha Lakshmi	Chemistry and biodiversity	2022 19(3)	1612-1880	2.745	https://doi.org/10.1002/cbdiv.202100686
12	Chemistry	Metformin-Derived Water-Soluble Cobalt Complexes: Thermal, Spectroscopic, DNA Interaction, and Molecular Docking Studies	K. Rajeshwari, P. Vasantha, B.Shekhar, P.V.Anantha Lakshmi	Prof. P.V.Anantha Lakshmi	Applied Biochemistry and Biotechnology	2022 194	0273-2289	3.094	https://doi.org/10.1007/s12010-022-03862-3
13	Chemistry	Visible Light Driven Photodegradation of Pathological Effluents and Biological Evaluation of Green ZnO Nanoparticles	Lakshmi Madhuri Peddada, Someswar Rao Sagurthi, Vijaya Charan Guguloth Ratnamala Annapragada, and Phani Raja Kanuparth*	Dr. G.Vijaya charan	Materials Science inc. Nanomaterials & Polymers Chemistry Select	Chemistry Select 2022, 7, e202200146 (11 of 11)		2.307	doi.org/10.1002/slct.202200146
14	Chemistry	Synthesis, structural, photocatalytic and anti-cancer activity of Zn doped Ni nano chromites by citrate gel auto combustion method	P. Sailaja Kumari a, G. Vijaya Charan a,*, D. Ravi Kumar b	Dr. G.Vijaya charan	Inorganic Chemistry Communications	Inorganic Chemistry Communications 139 (2022)		2.495	https://doi.org/10.1016/j.inche.2022.109393

						109393			
15	Chemistry	Study of photo catalytical, antimicrobial activity, dielectric and ac impedance properties of Zn doped Mg nanoferrites synthesized from citrate gel auto combustion method	D. Ravi Kumar, Ch Abraham Lincoln, G. Vijaya Charan, Gugulothu Thara, D. Ravinder, M. Veeraswamy, Pallati Naresh	Dr. G.Vijaya charan	Materials Chemistry and Physics	Materials Chemistry and Physics 278 (2022) 125648		4.56	https://doi.org/10.1016/j.matchemphys.2021.125648
16	Chemistry	Structural, photocatalytic, and anticancer activity Ni-substituted Cu nanochromites synthesized by citrate gel auto-combustion method	P. Sailaja Kumari ¹ · D. Ravi Kumar ² · G. Vijaya Charan ¹ · Someswar Rao Sagurthi ³	Dr. G.Vijaya charan	Chemical Papers	77,Pages 4727-4745(2023)	77,Pages 4727-4745(2023)	2.2	" https://doi.org/10.1007/s11696-023-02798-0 "
17	Chemistry	Structural and dielectric properties of $Sr_{1-x}Ce_xMg_yFe_{2-y}O_4$ nanoferrites synthesized by citrate gel auto combustion method	D. Ravi Kumar ^a , K. Anuradha Reddy ^b , T. Ashok Goud ^c , Nakiraboina Venkatesh ^c , G. Vijaya Charan ^d , Syed Ismail Ahmad ^e , Ch. Abraham Lincoln ^d	Dr. G.Vijaya charan	Materials today	2023, 92, Pages 703-710		2.59	https://doi.org/10.1016/j.matpr.2023.04.186
18	Chemistry		Sravanthi Maddikayala Kavitha Bengi, Saritha Reddy Pulimamidi	Dr P Saritha Reddy	Applied Organometallic Chemistry	Volume 36, Issue 10 / e6839,2022	1099-0739	4.105	https://doi.org/10.1002/aoc.6839

19	Chemistry	DNA binding, cleavage, molecular docking, antimicrobial and anticancer activities of Cr(III), Fe(III), Co(II), and Cu(II) complexes of o-vanillin and fluorobenzamine Schiff base ligand		Dr P Saritha Reddy	Applied Organometallic Chemistry	Volume 36, Issue 3, e6531, 2022.	1099-0739	4.105	https://doi.org/10.1002/aoc.6531
20	Chemistry	Evaluation of in-situ formed La ₂ O ₃ -TiO ₂ -La ₂ O ₂ CO ₃ nanocomposite photocatalyst for H ₂ production	Kotesh Kumar Mandari, Hari Padmasri Aytam, Shirisha Varimalla, Vijay Kumar Velisoju, Venugopal Akula	Chemistry	International Journal of Hydrogen Energy	47 (2022) 17214-17223	0360-3199	7.139	
21	Chemistry	Rice husk ash derived SiO ₂ for template free synthesis of H-ZSM-5 support for Ni catalyst: Investigation on non-oxidative CH ₄ cracking for clean H ₂ production.	Manasa Kandula, Naresh Gutta, Kalpana Manda, Vijayanand Perupogu, Hari Padmasri Aytam*, Venugopal Akula*.	Chemistry	Catalysis Surveys from Asia	36(2) 2022	1571-1013	2.964	
22	Chemistry	Sulphonated Ti-MCM41: A Potential Catalyst for the Transformation of Bio-Glycerol to Solketal	Balakrishna Matkala, Sasikumar Boggala, Yadaiah Salwadi, Hari Padmasri	Chemistry	IOSR Journal of Applied Chemistry (IOSR-JAC)	1 (2023) 01-10	e-ISSN: 2278-5736		

			Aytam*						
23	Chemistry	Synthesis of 2-Methylpyrazine Using Crude Glycerol over Zn-Cr-O Catalyst: A Value Addition Process for the Utilization of Biodiesel By-Product	Reema Sarkari , Kotesk Kumar Mandari , Sudhakar Medak , Kishore Ramineni, Hari Padmasri Aytam,* and Venugopal Akula	Chemistry	Catalysts	2023, 13, 318	2073-4344	3.9	
24	Chemistry	Effect of precipitating agents on activity of co-precipitated Cu-MgO catalysts towards selective furfural hydrogenation and cyclohexanol dehydrogenation reactions	Komal N. Patil, P. Manikanta, Rohith Rangnath Nikam, Puneethkumar M. Srinivasappa, Arvind H. Jadhav, Hari Padmasri Aytam, Kamaraju Seetha Rama Rao, Bhari Mallanna Nagaraja	Chemistry	Results in Engineering	17 (2023) 100851	2590-1230	4.059	
25	Chemistry	Rice husk ash derived SiO ₂ for template free synthesis of H-ZSM-5 support for Ni catalyst: Investigation on non-oxidative CH ₄ cracking for clean H ₂ production.	Manasa Kandula, Naresh Gutta, Kalpana Manda, Vijayanand Perupogu, Hari Padmasri Aytam*,	Chemistry	Catalysis Surveys from Asia	36(2) 2022	1571-1013	2.964	

			Venugopal Akula*.						
26	Chemistry	Equilibrium, DNA binding, docking, and antimicrobial studies of Ni(II) and Cu(II) chelates with 1-(4'-nitrobenzoyl)-3-thiosemicarbazide.	ST Leena Carlin, S. Sreekanth, DA Padmavathi and B. Sireesha	Chemistry	Applied Organometallic Chemistry	36(12), Dec, 2022	0268-2605	4.072	https://doi.org/10.1002/aoc.6877
27	Chemistry	Computational, Equilibrium, Structural, and Biological Study of the Novel 1-Formyl-4-phenyl-3-semicarbazide and Its Complexes	A. Fatima , S. S. Kanth , and B. Sireesha	Chemistry	Russian Journal of General Chemistry	92(12) Dec, 2022	1070-3632	0.779	http://doi.org/10.1134/S1070363222120210
28	Chemistry	Copper (II) Acetate Catalysed Synthesis Of Novel 6-(2-Chloro-4-Fluorophenyl)-9-Phenyl-[1,2,4] Triazolo[4,3-A][1,8]Naphthyridine Derivatives Under Microwave Irradiation And Their Biological And Molecular Docking Studies.	Alishala Ashok, Boda Sakram;	Chemistry	Heterocyclic Letters,	VI.1 No.3May - July 2022	ISSN : (print) 2231–3087		
29	Chemistry	Green synthesis of substituted 1,8-naphthyridin-thiazole scaffolds, molecular docking studies and biological evaluation. 2023	Alishala Ashok, Banoth Sonyanaik , Boda Sakram	Chemistry	Research on Chemical Intermediates,	JAN, 2023		3.3	doi: org/10.1007/s11164-022-04951-y

30	Chemistry	48. Palladium (II)-catalyzed C–H bond functionalization of aromatic and heteroaromatic esters with acrylates under ligand-free conditions and their Anti-microbial evaluation.	Rambabu Sirgamalla, Kurumanna Adem, Vishnu Thumma, J. Devaram, V. Prathibha, D. Suresh, Sakram Boda	Chemistry	Chemical Data Collections	Feb 2023	44 (2023) 101006.	0.219	doi.org/10.1016/j.cdc.2023.101006 Available online <u>22 February</u> 2023
31	Chemistry	Synthesis, antimicrobial activities of novel 3-chloro-4-(2,4-difluorophenyl)-1-(3-aryl-1,8-naphthyridin-2-yl)azetidin-2-ones and 2-(2,4-difluorophenyl)-3-(3-aryl-1,8-naphthyridin-2-yl)thiazolidin-4-ones.	Kurumanna Adem, Sakram Boda, Rambabu Sirgamalla & Ramesh Macha	Dr BODA SAKRAM	Synthetic communications	2022	Print ISSN: 0039-7911 Online ISSN: 1532-2432	2.17	https://doi.org/10.1080/00397911.2022.2045321
32	Chemistry	N-Benzoyl-4-Dimethylaminopyridinium Chloride: A Lewis Base Adduct For Efficient Poly And Monobenzoylation,	Ravi kumar Shekunti, Swathi Thangallipalli, Chiranjeevi Dhonthulachetty, Sridhar Reddy Kothakapu, Padmavathi Devarakonda Annapurna, Chandra Kiran Neella	Chemistry	ChemistrySelect	20227, e20220263 6 (1-4)	Online ISSN: 2365-6549	2.307	DOI: 10.1002/202636

33	Chemistry	Equilibrium, DNA binding, docking and antimicrobial studies of Ni(II) and Cu(II) chelates with 1-(4'-nitrobenzoyl)-3-thiosemicarbazide.	Leena Carlin Sandhepogu Thomas, Sree Kanth Sivan, Annapurna Padmavathi Devarakonda and Sireesha Berley	Chemistry	Applied Organometallic Chemistry	2022	026826 05, 109907 39	4.072	DOI: 10.1002/aoc.6877
34	Chemistry	pKaH of the Two Conjugate Acids (CH_2N_5^+) and (HN_6^+) of Two Hypothetical Molecules the Pentazine (CHN_5) and the Hexazine (N_6) of Azabenzene Series: A Chemical Education Perspective.	R. Sanjeev, R. Ravi, D. A. Padmavathi and V. Jagannadham,	Chemistry	World Journal of Chemical Education 2022 , 10(3), 105-10,	2022 Vol. 10, No. 3, 105-109	ISSN (Print): 2375-1665 ISSN (Online) : 2375-1657	0.16	DOI: 10.12691/WJCE-10-3-3.
35	Chemistry	Coumarinyl (thienyl) thiazole molecules as fluorescent photo switches	,K. Mahesh, D. A. Padmavathi	Chemistry	Asian Journal of Chemistry.	202234(9): 2281-2287	0970-7077	0.158	
36	Chemistry	Common Dimer-Responsible for the Trends in pKaHs of Both Pyridazinium Cations and Di-cations: An Educational Perspective	Sanjeev Rachuru, Pandiri Sreedhar, DA Padmavathi, V Jagannadham	Chemistry	World Journal of Chemical Education	2023 Vol. 11, No. 1, 1-3	ISSN (Print): 2375-1665 ISSN (Online) : 2375-1657	0.16	Vol. 11, No. 1, 4-6 Available online at DOI:10.12691/wjce-11-1-2.
37	Chemistry	Why Cyclohexatriene (C_6H_6 , $\text{pK}_a = 43$) is Less Acidic than Cyclopentadiene (C_5H_6 , $\text{pK}_a = 15$) and Cycloheptatriene	Sanjeev Rachuru, Devarakonda A Padmavathi, V Jagannadham	Chemistry	World Journal of Chemical Education	2023 Vol. 11, No. 1,4-6	ISSN (Print): 2375-1665 ISSN (Online) : 2375-1657	0.16	DOI:10.12691/wjce-11-1-1

		(C7H8, pKa= 36): A Freshmen Chemical Education Undergraduate Exercise					(Online) : 2375-1657		
38	Chemistry	Efficient green synthesis of a potential novel nosylation reagent and its DFT study	Sridhar Reddy Kothakapu & D. S. Ramakrishna Ravi Kumar Shekunti, Annapurna Padmavathi Devarakonda	Chemistry	Journal Phosphorus, Sulfur, and Silicon and the Related Elements,	2023, 2191960	Taylor and Francis	1.052	https://doi.org/10.1080/10426507.2023.2191960
39	Chemistry	N-Benzoyl-4-Dimethylaminopyridinium Chloride: A Lewis Base Adduct For Efficient Poly And Monobenzoylation,	Ravi kumar Shekunti, Swathi Thangallipalli , Chiranjeevi Dhonthulachitt y, Sridhar Reddy Kothakapu,Pad mavathi Devarakonda Annapurna, Chandra Kiran Neella	Chemistry	ChemistrySelect	20227, e202202 63 6 (1-4)	Online ISSN:23 65-6549	2.307	DOI: 10.1002/202636
40	Chemistry	Synthesis and biological evaluation of 8-hydroxyquinoline incorporated schiffs bases as antimicrobial agents.	Goli J. Rupasree, Rambabu Sirgamalla, Sakram. B., Yadagiri B. J. Ramchander	Chemistry	WJPPS	12, 4, 1423- 1436	2278 – 4357		www.wjpps.com
41	Chemistry	Evolution of Photocatalytic	Keshavulu Masula,	Chemistry	Materials Science in	160,		4.1	https://doi.org/10.1016/j.m

		Properties of NiO-Bi ₂ O ₃ Nanocomposite Material and comparison with pristine Oxides for visible light-induced efficient photocatalytic removal of dyes and agricultural soil pollutants.	Sreedhar P, Vijay Kumar P, Yadagiri Bhongiri, Someshwar Pola, Manohar Basude.		Semiconductor Processing	107432, 2023			ssp.2023.107432
42	Chemistry	Synthesis, Spectroscopic Characterization, DNA binding and DFT/PCM calculations of New Hydrogen-bonded Charge Transfer complex between 4-Dimethylaminopyridine and Chloranilic acid.	Sundarpal Vudutha, Shashi kanth Boddu, Rajitha Nampally, Yadagiri Bhongiri*	Chemistry	Result in Chemistry	5, 100694 2023		2.3	https://doi.org/10.1016/j.rechem.2022.100694
43	Chemistry	Antiferromagnetic spin correlations above the bulk ordering temperature in NiO nanoparticles: Effect of extrinsic factors,	Tai-Yue Li, Ming-Kang Ho, Tus-En Hsu, Hsin-Hao Chiu, Kuan-Ting Wu, Jen-Chih Peng, Chun-Ming Wu, Ting Shan Chan, B Vijaya Kumar, P Muralidhar Reddy, Shyue-Chu Ke, Chia-Liang Cheng, Ashish Chhaganlal Gandhi, Sheng Yun Wu	P. Muralidhar Reddy	Applied Surface Science	2022	0169-4332	6.707	DOI: https://doi.org/10.1016/j.apusc.2021.152081

44	Chemistry	Synthesis and Biological Evaluation of Novel 2-Arylquinoline-3-Fused Thiazolo[2,3c]1,2,4-Triazole Heterocycles as Potential Antiproliferative and Antimicrobial Agents	Ramulu Dhanavath, Ravinder Dharavath, Devender Kothula, Sampath Bitla, Gugulothu Yaku, Saritha Birdaragu, P. Muralidhar Reddy, Krishnam Raju Atcha	P. Muralidhar Reddy	Journal of Heterocyclic Chemistry	2022	1943-5193	2.193	DOI: 10.1002/jhet.4460
45	Chemistry	Synthesis and Anticancer Activity of 3,4,5-Trimethoxycinnamamide-Tethered 1,2,3-Triazole Derivatives	A. Sanjeev, N. N. Reddy, S. Bhaskar, R. Rohini, A. K. Raju, B. V. Kumar, A. Huc, and P. M. Reddy	P. Muralidhar Reddy	Russian Journal of Organic Chemistry	2022	1070-4280	0.72	DOI: 10.1134/S1070428022010122
46	Chemistry	Overview of the Effect of Covid-19 Pandemic on Forensic Pathology	G. Swetha, Revathy Sundara Moorthy, K. Premalatha, M. Kavitha and P. Muralidhar Reddy	P. Muralidhar Reddy	High Technology Letters	2022	1006-6748	2.7	DOI: https://doi.org/10.37896/HTL28.05/5810
47	Chemistry	One-Pot Hydrothermal Preparation and Defects Enhanced Photocatalytic Activity of Bi doped CdWO ₄ Nanostructures	Kura Narsimha, N. Anuradha, Kathi Sudarshan, Ashish Chhaganlal	P. Muralidhar Reddy	Physical Chemistry Chemical Physics	2022	1463-9076 (print); 1463-9084	3.945	https://doi.org/10.1039/D1CP02885E

			Gandhi, A. Krishnam Raju, P. Muralidhar Reddy, Radhika Mone, G. Upender, B. Vijaya Kumar				(web)		
48	Chemistry	Stability Indicating Method Development and Validation, Stress Degradation Studies for Dacarbazine By Using RP-HPLC	A. Sanjeev, Narmada Vallakeerthi, N. Naresh Reddy, S. Bhaskar and P. Muralidhar Reddy	P. Muralidhar Reddy	NeuroQuantology	2022	1303- 5150	1.576	doi: 10.14704/nq. 2022.20.9.N Q44735
49	Chemistry	Diisobutylaluminium hydride mediated efficient synthesis of Morita–Baylis–Hilman adducts through α - functionalization of alkyl Propiolates	Sailam Sri Gogula, Ramakrishna Konakalla, Kamalaker Reddy Kamireddy, P. Muralidar Reddy, Ch. Abraham Lincoln and B.V. Subba Reddy	P. Muralidhar Reddy	Journal of Heterocyclic Chemistry	2022	1943- 5193	2.193	DOI: 10.1002/jhet. 4602
	Chemistry	Nanoparticle Drug Delivery System for the Treatment of Neurological Disorder	K. Laxma Reddy, P. Muralidhar Reddy* and M. Kavitha	P. Muralidhar Reddy	NeuroQuantology	2022	eISSN: 1303- 5150	1.576	doi: 10.14704/nq. 2022.20.9.N Q44736
50	Chemistry	Precise Sn-Doping Modulation for Optimizing CdWO ₄	K. Manjunatha, Ming-Kang Ho, Tsu-En Hsu,	P. Muralidhar Reddy	Int. J. Mol. Sci.	2022	1422- 0067	6.208	https://doi.org/10.3390/ij

		Nanorod Photoluminescence	Hsin-Hao Chiu, Tai-Yue Li, B. Vijaya Kumar, P. Muralidhar Reddy, Ting San Chan, Yu-Hao Wu, Bi-Hsuan Lin, Artashes Karmenyan, Chia-Liang Cheng, Ashish Chhaganlal Gandhi and Sheng Yun Wu						ms232315123
51	Chemistry	Modulation of Magnetic and Luminescence Properties via Control Cu-Doped in CdWO ₄ Nanorods for Photocatalytic Applications	Ashish Chhaganlal Gandhi, Hsin-Hao Chiu, Ming-Kang Ho, Tsu-En Hsu, Tai-Yue Li, Yu-Hao Wu, B. Vijaya Kumar, P. Muralidhar Reddy, Bi-Hsuan Lin, Chia-Liang Cheng, and Sheng Yun Wu	P. Muralidhar Reddy	ACS Appl. Nano Mater.	2022	1422-0067	5.097	https://doi.org/10.1021/acsnm.2c03092
52	Chemistry	Effect of surface and contact points modification on the output performance of triboelectric nanogenerator	S. Mishra, P. Supraja, D. Haranath, R. R. Kumar, Someshwar Pola,	Dr. Someshwar Pola	Nano Energy	2022	, 107964		

53	Chemistry	Benzodithiophene-Based, Donor–Acceptor– π –Donor–Acceptor Systems as Hole Transporting Materials for Efficient Perovskite Solar Cells	R. Gade, M. Basude, R. Vummadi, Someshwar Pola	Someshwar Pola	Water Research & Technology	2022	3065–3078		
54	Chemistry	Benzodithiophene-Based, Donor–Acceptor– π –Donor–Acceptor Systems as Hole Transporting Materials for Efficient Perovskite Solar Cells,	K. Manda, R. Kore, M. Ambapuram, P. Chetty, S. Roy, V. Jadhav, S. N. Babu, R. gundla, R. Mitty, Someshwar pola	Someshwar Pola	ChemPhotoChem	2022	e202200062		
55	Chemistry	Organic materials based on hetero polycyclic aromatic hydrocarbons for organic thin-film transistor applications,	Suresh Kilaru, Ramesh Gade, Yadagiri bhongiri, Anuj Tripathi, Prabhakar Chetti, Someshwar Pola	Someshwar Pola	Materials Science in Semiconductor Processing	2022	106730		
56	Chemistry	Photooxidation of 2,20-(Ethyne-1,2-diyl)dianilines: An Enhanced Photocatalytic Properties of New Salophen-Based Zn(II) Complexes,	Mahesh Subburu, Ramesh Gade, Prabhakar Chetti, Someshwar Pola	Someshwar Pola	Photochem	2022			
57	Chemistry	Evolution of photocatalytic activity of CeO ₂ –Bi ₂ O ₃	K Masula, Y Bhongiri, GR Rao, PV	Someshwar Pola	Optical Materials	2022	112201		

		composite material for wastewater degradation under visible-light irradiation, Optical Materials	Kumar, Someshwar Pola, M Basude						
58	Chemistry	Synthesis and Optical Properties of Mono-and DiSubstituted 1, 3, 5-Triazines Functionalized with Thiophene and Furan,	V. M. Vidya, Someshwar Pola, P Chetti	Someshwar Pola	Journal of Molecular Structure	2022	132408		
59	Chemistry	Femtosecond nonlinear optical properties of polycyclic aromatic hydrocarbon-based Benzo[e]pyrene derivatives	S. K. Nayak, R. Kore, Md. S. Ahmed, P. Verma, R. Vallavoju, D. Banerjee, Someshwar Pola, V. R. Soma, P. Chetti, S. S. K. Raavi	Chemistry	Optical Materials	137 (2023) 113603	0925-3467	3.90	doi.org/10.1016/j.optmat.2022.112201
60	Chemistry	Synthesis of titanates for photomineralization of industrial wastewater and organic pollutants	R. Gade, M. Basude, N. B. Simhachalam, Rama Devi V, Someshwar Pola* and P.Chetti	Chemistry	Environ. Sci.: Water Res. Technol.,	8 (2022) 3065	2053-1419	5.00	DOI: 10.1039/d2ew00469k
61	Chemistry	Voltage- and Power-Conversion Performance of Bifunctional ZrO ₂ : Er ³⁺ / Yb ³⁺ Assisted and Co-sensitized Dye	A. Meenakshamma, P. M. Mounika, M. Gurulakshmi, K. Susmitha, D. Haranath, L.	Chemistry	ChemPhotoChem	2023, e202200302 (1 of 10)	2367-0932	3.70	

		Sensitized Solar Cells for Internet of Things Applications	Goswami, G. Gupta, Pola Someshwar, M. Raghavender						
62	Chemistry	Enhanced piezo-photocatalytic properties of new salophen based Ti (IV) complexes	R. Vallavoju, R. Kore, P. Radhika, M. Subburu, R. Gade, M. Basude, Someshwar Pola, P. Chetti	Chemistry	Inorganic Chemistry Communications	148 (2023) 110272	1387-7003	3.80	https://doi.org/10.1016/j.inoche.2022.110272
63	Chemistry	Interrupted CuAAC-Thiolation for the Construction of 1,2,3-Triazole-Fused Eight-Membered Heterocycles from O-/N-Propargyl derived Benzyl Thiosulfonates with Organic Azides	Reddy, R. J.* Waheed, Md., Kumari, A. H., and Krishna, G. R.	Dr. Raju J. Reddy	Adv. Synth. Catal. 2022, 364, 319-325	2022/364		5.981	
64	Chemistry	Diethyl phosphite-mediated switchable synthesis of bis(imidazoheterocycles) derived disulfanes and sulfanes using imidazoheterocycles and octasulfur	Reddy, R. J.* Shankar, A., Kumar, J. J. Sharadha, N., and Krishna, G. R.	Dr. Raju J. Reddy	New. J. Chem. 2022, 46, 4784-4791	2022/46		3.925	

65	Chemistry	Solvent-Dependent Mono- and Bis-Thiolation of (E)- β -Iodovinyl Sulfones with Thiols for Flexible Synthesis of 1,2-Thiosulfonylalkenes and 1,2-Dithioalkenes	Reddy, R. J.* Kumari, A. H., Sharadha, N. and Krishna, G. R.	Dr. Raju J. Reddy	J. Org. Chem. 2022, 87, 3934-3951.	2022/87		4.198	
66	Chemistry	Base-mediated [3+2]-cycloannulation strategy for the synthesis of pyrazolo[1,5-a]pyridine derivatives using (E)- β -iodovinyl sulfones	Reddy, R. J.* Sharadha, N. Kumari, A. H.	Dr. Raju J. Reddy	Org. Biomol. Chem., 2022,20, 4331-4337	2022/20		3.890	
67	Chemistry	Unified Radical Sulfonylative-Annulation of 1,6-Enynols with Sodium Sulfinates: A Modular Synthesis of 2,3-Disubstituted Benzoheteroles	Reddy, R. J.* Kumari, H. K. and Krishna, G. R.	CHEMISTRY	<u>J. Org. Chem.</u>	2023, 88, 1635–1648	1520-6904	3.67	
68	Chemistry	Mn(OAc) ₃ -Mediated Unexpected Cycloannulative-Sulfonyl Migration Cascade using (E)- β -Iodovinyl Sulfones and ortho-Alkynylphenols: An Expedient Synthesis of Chromene-derived Vinyl Sulfones	Reddy, R. J.* Kumar, J. J. and Kumari, H. K.	CHEMISTRY	<u>Org. Lett.</u>	2023, 25, 2207–2212	1523-7060	5.36	

69	Chemistry	Pd(II)-Catalyzed Tandem Cycloannulative-Alkenylation of ortho-Alkynyl-Phenols/Anilines with (E)- β -Iodovinyl Sulfones: A Direct Strategy to Construct 3-(Vinyl Sulfonyl)-Benzoheterole Derivatives	Reddy, R. J.* Sharadha, N. and Krishna, G. R.	CHEMISTRY	<u>J. Org. Chem.</u>	2023, 88, 8889-8903.	1520-6904	3.67	
70	Chemistry	SARS-CoV-2 variants and spike mutations involved in second wave of COVID-19 pandemic in India	Radhakrishna Muttineni, Binitha R.N, Kalyani Putty, Kavitha Marapakala, Sandra K.P., Jaslin Panyam, Aravind Vemula, Shashi Mohan Singh, Subin Balachandran, Viroji Rao S.T. Anand Kumar Kondapi	Dr. M. Kavitha	Transbound Emerg Dis	March 2022		4.521	doi: 10.1111/tbed.14508.
71	Chemistry	Antiferromagnetic spin correlations above the bulk ordering temperature in NiO nanoparticles: Effect of extrinsic factors,	Tai-Yue Li, Ming-Kang Ho, Tus-En Hsu, Hsin-Hao Chiu, Kuan-Ting Wu, Jen-Chih Peng, Chun-Ming Wu, Ting Shan Chan, B Vijaya Kumar, P Muralidhar	B. Vijaya Kumar	Applied Surface Science	2022	0169-4332	6.707	DOI: https://doi.org/10.1016/j.apusc.2021.152081

			Reddy, Shyue-Chu Ke, Chia-Liang Cheng, Ashish Chhaganlal Gandhi, Sheng Yun Wu						
72	Chemistry	Synthesis and Anticancer Activity of 3,4,5-Trimethoxycinnamamide-Tethered 1,2,3-Triazole Derivatives	A. Sanjeev, N. N. Reddy, S. Bhaskar, R. Rohini, A. K. Raju, B. V. Kumar, A. Huc, and P. M. Reddy	B. Vijaya Kumar	Russian Journal of Organic Chemistry	2022	1070-4280	0.72	DOI: 10.1134/S1070428022010122
73	Chemistry	Modulation of Magnetic and Luminescence Properties via Control Cu-Doped in CdWO ₄ Nanorods for Photocatalytic Applications	Ashish Chhaganlal Gandhi, Hsin-Hao Chiu, Ming-Kang Ho, Tsu-En Hsu, Tai-Yue Li, Yu-Hao Wu, B. Vijaya Kumar, P. Muralidhar Reddy, Bi-Hsuan Lin, Chia-Liang Cheng, and Sheng Yun Wu	B. Vijaya Kumar	ACS Appl. Nano Mater.	2022	1422-0067	5.097	https://doi.org/10.1021/acs.anm.2c03092
74	Chemistry	One-Pot Hydrothermal Preparation and Defects Enhanced Photocatalytic Activity of Bi doped CdWO ₄ Nanostructures	Kura Narsimha, N. Anuradha, Kathi Sudarshan, Ashish Chhaganlal Gandhi, A.	B. Vijaya Kumar	Physical Chemistry Chemical Physics	2022	1463-9076 (print); 1463-9084 (web)	3.945	https://doi.org/10.1039/D1CP02885E

			Krishnam Raju, P. Muralidhar Reddy, Radhika Mone, G. Upender, B. Vijaya Kumar						
75	Chemistry	Precise Sn-Doping Modulation for Optimizing CdWO ₄ Nanorod Photoluminescence	K. Manjunatha, Ming-Kang Ho, Tsu-En Hsu, Hsin-Hao Chiu, Tai-Yue Li, B. Vijaya Kumar, P. Muralidhar Reddy, Ting San Chan, Yu- Hao Wu, Bi- Hsuan Lin, Artashes Karmenyan, Chia-Liang Cheng, Ashish Chhaganlal Gandhi and Sheng Yun Wu	B. Vijaya Kumar	Int. J. Mol. Sci.	2022	1422- 0067	6.208	https://doi.org/10.3390/ijms232315123
76	Chemistry	Acetic Acid-Water Mediated Efficient One- Pot Synthesis of Functionalized Isoxazolyl Amino Chromeno[4,3- b]pyridine Derivatives,	Ravinder Reddy Danda, P. Muralidhar Reddy, A. Krishnam Raju, V. Naveen Reddy, K. Santosh Kumar and B. Vijaya Kumar	B. Vijaya Kumar	Asian Journal of Chemistry	2023	0975- 427X	0.16	doi.org/10.14233/ajchem.2023.26926

77	Chemistry	Characterization and photocatalysis of visible-light-driven Z-scheme $\text{Bi}_2\text{WO}_6/\text{Bi}_2\text{MoO}_6$ heterojunction for Rhodamine B degradation,	B. Ashok, K. Ramesh, D. Madhu, T. Nagesh, B. Vijaya Kumar, G. Upender,	B. Vijaya Kumar	Inorg. Chem.Comm.	2023	1387-7003.	3.428	doi.org/10.1016/j.inoche.2023.110495
78	Chemistry	Some Novel [6-(Isoxazol-5-ylmethoxy)-3-methylbenzofuran-2-yl] phenylmethanone Derivatives, Their Antimicrobial Activity, and Molecular Docking Studies on COVID-19	N Umapathi, B Shankar, M Raghavender, T Vishnu, P Jalapathi*	P Jalapathi	Russian Journal of General Chemistry [Springer Nature]	92(2)2022-	1070-3632	0.779	
79	Chemistry	Molecular docking studies on COVID-19 and antibacterial evaluation of newly synthesized 4-(methoxymethyl)-1,2,3- triazolean analogues derived from (E)-1- phenyl-3-(2-(piperidin-1-yl)quinolin-3-yl) prop-2-en-1-one	M Nagamani, T Vishnu, P Jalapathi M Srinivas	P Jalapathi	Journal of the Iranian Chemical Society [Springer Nature]	19(4)2022	1735-2428	2.271	
80	Chemistry	Synthesis And In Vitro Cytotoxic Evaluation Of Novel Triazole- Benzimidazole Embodied Pyrazole Derivatives Against Breast Cancer	Bala Narsimha Dhoddi, Ravi Kurapati , Govardhan Reddy Kundur2 , Sampath	P Jalapathi	Rasayan Journal of Chemistry [Springer]	15(2) 2022	0976-0083	1.30	

			Bitla2 , Balaswamy Puligilla, and Jalapathi Pochampally						
81	Chemistry	Synthesis, antimicrobial and antioxidant activity of triazole, pyrazole containing thiazole Derivatives and Molecular docking studies on COVID-19	Matta Raghavender, Jalapathi Pochampally*, Bala Narsimha Dhoddi, Bhookya Shankar, Sampath Bitla, Anjini Gayatri Akkiraju	P Jalapathi*	BMC Chemistry (In Press)	2022	2661-801X	4.095	
82	Chemistry	Synthesis of newer substituted chalcone linked 1, 2, 3-triazole analogs and evaluation of their cytotoxic activities	Matta Raghavender, Bhookya Shankar, Nalla Umapathi, Pochampally Jalapathi	P Jalapathi	Heterocyclic Communications	28(1)2022	2191-0197	2.00	
83	Chemistry	Easy and Efficient Microwave-Assisted Synthesis of 1,2,3-Triazolyl-Tethered 2-Pyridinylbenzimidazoles and their Antimicrobial Activity.	M.Vishnu Vardhan, M.Pradeep, T. Gangadhar	T. Gangadhar	Russian Journal of Organic Chemistry	2022, Volume. 58	1070-4280	0.862	https://doi.org/10.1134/S1070428022040182
84	Chemistry	An efficient microwave assisted synthesis of (E)-1-(2,4-Bis((1-Aryl-1H-1,2,3-Triazol-4-YL) Methoxy) Phenyl)-3-(2-	M.Pradeep, M.Vishnu Vardhan, T. Gangadhar	T. Gangadhar	Chemical Data Collections	2023 Volume.46	2405-8300	0.217	https://doi.org/10.1016/j.cdcc.2023.101020

		(Pyrrolidin-1-yl) Quinolin-3-yl Prop-2- En-1-Ones and their antimicrobial activity							
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5.2 Number of books published with ISBN reference & citation index analysis

Prof. B. Sireesha

Year	Books authored		Chapters in Edited Book	Editor of Book		ISBN No.
	International Publishers	National Publishers		International Publishers	National Publishers	
2023		BSc I Year Semester-I	Chemical Bonding		Telugu Akademi	978-81-8180-722-9
2023		BSc III Year Semester VI	Symmetry of Molecules		Telugu Akademi	978-81-8180-761-8
Please attach separate sheet clearly indicating the names and page numbers of the publications along with reprints of the complete publications.						

Dr. B. Sakram

Year	Books authored		Editor of Book	ISBN No.
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	International Publishers	National Publishers	Chapters in Edited Book	International Publishers	National Publishers	
2022			Organic Chemistry			978-93-90847-90-7
Please attach separate sheet clearly indicating the names and page numbers of the publications along with reprints of the complete publications.						
Editor Dr. M.R. Jayapal			Kripa Drishti Publications, Pune, Chapter Edited by DR. B. Sakram Page No:97-118			

Dr. A. Hari Padmasri

Year	Books authored		Chapters in Edited Book	Editor of Book		ISBN No.
	International Publishers	National Publishers		International Publishers	National Publishers	

2022	Wiley-VCH GmbH Editor: Doan Pham Minh		Chapter-7: Selective Hydrogenation and Dehydrogenation Using Hydroxyapatite- Based Catalysts Vijay K. Velisoju, Hari Padmasri Aytam , Venugop al Akula pp. 241-268			ISBN:9783527348497
2022		Divya Lakshmi Publishers & Distributors Meerut (U.P.) Edited by Dr. A. Hari Padmasri	B.Sc II yr Chemistry text book by A. Hari Padmasri , G. Pranitha, K. Saritha Rani, Rafiya Sultana, B. Rajini			ISBN:978-93-91576-20- 2
Please attach separate sheet clearly indicating the names and page numbers of the publications along with reprints of the complete publications.						

Prof. B. Yadagiri

Year	Books authored		Chapters in Edited Book	Editor of Book		ISBN No.
	Internation al Publishers	National Publishers		International Publishers	National Publishers	

2023		Telugu Academy	Y			978-8181806246
Please attach separate sheet clearly indicating the names and page numbers of the publications along with reprints of the complete publications.						

Prof. DA Padmavathi

1	B.Sc V Semester Elective A	Molecular Spectroscopy			National		2022	Telugu Academy Hyderabad Publication, in press 2022.
2	B.Sc 3 rd year Sem- V Elective B	Two Chapters Homogeneous Catalysis in (Both Telugu and English medium)			National		in Press 2022	A Telugu Academy Hyderabad Publication

Dr. P. Muralidhar Reddy

Year	Books authored		Chapters in Edited Book	Editor of Book		ISBN No.
	International Publishers	National Publishers		International Publishers	National Publishers	

2022		Encyclopedic Dictionary of Chemistry			Neelkamal Publications Pvt. Ltd.,	978-93-90897-47-6
Please attach separate sheet clearly indicating the names and page numbers of the publications along with reprints of the complete publications.						

Dr. P. Jalapathi

Year	Books authored		Chapters in Edited Book	Editor of Book		ISBN No.
	International Publishers	Nation al Publishers		International	National Publishers	
2022	Devender Mandala Jalapathi Pochampally Raghavender Matta					9786205500408
2022	Jalapathi Pochampally and Raghavender Matta.					9786205497012
Please attach separate sheet clearly indicating the names and page numbers of the publications along with reprints of the complete publications.						

5.3 Number of patents applied for and sanctioned during the year

Sl.No	Name of the Department	Name of the Teacher	Title of patent filed	Filed/Approved/Granted	National / International	Country Name	Patent Registration Number
1	2	3	4	5	6	7	8
1.	Chemistry	P. Muralidhar Reddy	Novel Sensitive and Advanced Clinical Mass Spectrometry Kit	Bundesrepublik Deutschland	International	German	20 2022 105 300 IPC: G01 33/82

			for Evaluation of Vitamin-D Deficiency				
2.	Chemistry	P. Jalapathi	Antiproliferative 1,2,3-Triazole Analogues	Approved	National	INDIA	202241026111
3.	Chemistry	P. Jalapathi	Antiproliferative-active Piperzino methyl Triazole compounds	Approved	National	INDIA	202241033244

5.4 Consultancy ventures and income earned: -NIL-

Sl.No	Name of the Department	Name of the Teacher	Title of project	Organization	National/ International	Country	Nature of Consultancy	Funds Sanctioned	Funds Released till now	Sanctioned Date(or) Completed Date	Ongoing/ Completed
1	2	3	4	5	6	7	8	9	10	11	12

5.5 Distinctions/honours/awards won by the faculty

Sl.No	Name of the Department	Name of the teacher	Name of the Award	International/ National / State level	Nature of award	Date
1	2	3	4	5	6	
1	Chemistry	Dr. P. Muralidhar Reddy	Vice Chancellor Award -2023 for Excellence in	State level	Awarded certificate of merit and Cash Reward for Research	Jan 2023

			Research		Excellence.	
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5.6 Membership of the Faculty in important national bodies

- ✚ Member of American Chemical Society.
- ✚ Member of Royal Society of Chemistry.
- ✚ Member of International Society of Heterocyclic Chemistry.
- ✚ Life Member of Indian Science Congress.
- ✚ Life Member of Chemical Research Society of India.
- ✚ Life Member of Indian Chemical Society.
- ✚ Life Member of Indian Council of Chemists.
- ✚ Life Member of Indian Society of Chemists and Biologists.
- ✚ Life Member of Indian Association of Chemistry Teachers.
- ✚ Life Member of Indian Institute of Public Administration.
- ✚ Life Member of Electrochemical Society of India, Bangalore.
- ✚ Life Member of The Society for Advancement of Electrochemical Science and Technology, Karaikudi.
- ✚ Life Member of Materials Research Society of India (MRSI)
- ✚ Life Member of International Congress of Chemistry and Environment.
- ✚ Life Member of Catalysis Society of India
- ✚ Life Member of International Society of Teachers and Researchers in Chemistry (ISRTC) & Journal of Teaching and Research in Chemistry (JTRC)
- ✚ Life Member of Osmania University Chemistry Alumni Association
- ✚ Fellow of Telangana Academy of Sciences
- ✚ Member of Taiwan society for mass spectrometry (TSMS)
- ✚ Associate Fellow of Telangana Academy of Sciences
- ✚ Life member of Association of Pharmacy Professionals (APP)

Sl.No	Name of the Department	Name of the teacher	Membership / Distinction earned	Organization	International / National / State level
1	2	3	4	5	6
1.	Chemistry	Dr B Sakram	Life member	Indian Science Congress Association	National
2.	Chemistry	Dr B Sakram	Life member	Indian Council Of Chemist	National

3.	Chemistry	Dr.B. Vijaya Kumar	Life Membership	Indian Science Congress Association	National
4.	Chemistry	Dr.B. Vijaya Kumar	Life Membership	Indian Council of Chemists	National
5.	Chemistry	Dr.B. Vijaya Kumar	Life Membership	Materials Research Society of India	National
6.	Chemistry	Dr.P. Muralidhar Reddy	Life Membership	Indian Science Congress Association	National
7.	Chemistry	Dr.P. Muralidhar Reddy	Life Membership	Indian Council of Chemists	National
8.	Chemistry	Prof. B. Manohar	Life Membership	Materials Research Society of India	National
9.	Chemistry	Prof. B. Manohar	Life Membership	The Indian Science Congress Association	National
10.	Chemistry	Prof. B. Yadagiri	Life Membership	Indian Science Congress Association	National
11	Chemistry	Prof. B. Yadagiri	Life Membership	Indian Council of Chemists	National
12	chemistry	Dr.P. Muralidhar Reddy	Life Membership	Association of Pharmacy Professionals (APP)	National
13	Chemistry	Dr. Someshwar Pola	Life Membership	Materials Research Society of India	National
14	Chemistry	Dr. Someshwar Pola	Life Membership	The Indian Science Congress Association	National

5.7 Faculty attended / chaired session in Seminars / Conferences / events (National & International)

Sl.No	Department	Title of Seminar/Conference	Name of the Teacher	National / International	Duration & dates	Sponsoring agencies	Remarks
1	2	3	4	5	6	7	8
1.	Chemistry	Recent Advances in Chemistry and Their Applications	Prof. B. Manohar	National	9-11th January 2023	Swami Ramanand Teerth	

		in Emerging Areas (ICRAC-2023)				Marathwad a University	
2.	Chemistry	Use of Web of Science and Endnote in Research	Dr G.Vijaya charan	National	11 th ,Nov,2022		
3.	Chemistry	2-day International conference on Chemical Advances for Sustainable Development CASD 2022	Department of Chemistry, University College for women, Hyderabad	International	12 th &13 th April 2022	-	
4.	Chemistry	Two Days Virtual International Conference on "Chemical Advances For Sustainable Development CA SD 2022	Dr.G. Vijayachara n	International	Two days, 12 th &13 th April 2022	TSCHE, Hyderabad	Chaired, Oral Presentation s session on 13 th April 2022
5.	Chemistry	National Confer ence on "Recent Advances in Green and Sustainable Chemical Science s"	Dr.S.Sudha Dept. of Chemistry, St. Pious UG & PG College for Women, Nacharam, Hyderabad	National	Two days, 19 th -20 th January, 2023.	TSCHE, Hyderabad	Invited Talk on "Nano Catalysts: Strategic to Meet Sustainabilit y Challenges
6.	Chemistry	A Five Day	Department	National	4 th April 22		Invited

		National Online Faculty Development Program (FDP) on "Enhancing Academic and Research Endeavours in Chemistry at Higher Education Institutions"	of Chemistry, St. Ann's College for Women, Hyderabad.				lecture on "INSTRUMENTATION : Bringing the instruments into the Lecture Hall
7.	Chemistry	Current Trends and futuristic challenges in chemical sciences	Department of Chemistry University College of Science, Osmania University	International	29 nd & 30 th July 2022	UGC-SAP	
8.	Chemistry	Current Trends & Futuristic Challenges in Chemical Sciences	Dr. P. Muralidhar Reddy	International Seminar	Two days - 29 th and 30 th July 2022		P. Muralidhar Reddy acted as Rapporteur
9.	Chemistry	International winter school 2022 on Frontiers in Materials Science	Dr. B. Vijaya Kumar	International Seminar	05 th -9 th Dec 2022		
10.	Chemistry	Current Trends & Futuristic Challenges in Chemical Sciences	Dr. B. Vijaya Kumar	International Seminar	Two days - 29 th and 30 th July 2022		Dr. B. Vijaya Kumar acted as Rapporteur
11.	Chemistry	Recent Advances	Dr.	Swami	9-11 th January		Invited Talk

		in Chemistry and Their Applications in Emerging Areas (ICRAC-2023)	Someshwar Pola	Ramanand Teerth Marathwada University	2023		
12.	Chemistry	TWO-DAY NATIONAL SEMINAR on Chemical Sciences in Sustainable Technology and Developments- Challenges & Opportunities	Dr. Someshwar Pola	Department of Chemistry, Telangana Social Welfare Residential Degree & PG College, Mahendra Hills.	24th & 25th February 2023		Invited Talk

Details of research work presented in National Seminars / Conferences

Dr P Saritha Reddy

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes oral/post)	Link to the Activity report on the website
2022	2-day International conference on “ Chemical Advances for Sustainable Development CASD 2022”	03	12 th & 13 th April 2022	Department of Chemistry, University College for women, Hyderabad	Yes	

Dr. A Hari Padmasri

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes oral/post)	Link to the Activity report on the website
1	Two Days Virtual International Conference on "Chemical Advances For Sustainable Development CASD 2022"	B Vijayalaxmi, M Vijayatha, Sajeeda Md, A Hari Padmasri* in the	12 th & 13 th April 2022	Dept. of Chemistry, University College for Women, Koti, Hyderabad	Oral presentation of paper entitled "Photocatalytic Degradation of 4-Chlorophenol in Visible and Solar light over Ag doped and Bi doped TiO ₂ nanoparticles"	
2	Two Days Virtual International Conference on "Chemical Advances For Sustainable Development CASD 2022"	M.Vijayatha, B.Vijayalaxmi, Md. Sajeeda and A. Hari Padmasri	12 th & 13 th April 2022	Dept. of Chemistry, University College for Women, Koti, Hyderabad	Oral presentation of paper entitled TiO ₂ Nanocomposites: A Comparative Study with TiO ₂ Nanoparticles Using Various Characterization Techniques	
3	Two Day International Seminar on Current Trends and Futuristic Challenges in Chemical Research"	B Vijayalaxmi, A Vasantha, Ch Swaroopa, A Hari Padmasri	29 th and 30 th July 2022	Dept. of Chemistry, University College of Science, Osmania University	Oral presentation of paper entitled "Utilization of Nano TiO ₂ based catalysts for the Photocatalytic	

					Degradation of 4-Chlorophenol in Solar & Visible Light"	
4	Dept. of Chemistry, University College of Science, Osmania University	M.Balakrishna, S. Yadaiah, A. Vennela, A.Hari Padmasri	29 th and 30 th July 2022	Dept. of Chemistry, University College of Science, Osmania University	Poster presentation of paper entitled "Valorization of Bioglycerol: Synthesis of Solketal over Al- MCM-41"	
5	Dept. of Chemistry, University College of Science, Osmania University	M Vijayatha, B Ravali , K Venkatesham, A Hari Padmasri	29 th and 30 th July 2022	Dept. of Chemistry, University College of Science, Osmania University	Poster presentation of a paper entitled "Visible Light Induced Photocatalytic Degradation of Ciprofloxacin over TiO ₂ Nanocomposites"	
6	National Conference on "Recent Advances in Green and Sustainable Chemical Sciences"	A.Vasanth, B. Vijayalaxmi, K. Venkatesham, A. Hari Padma	19 th -20 th January, 2023	Dept. of Chemistry, St. Pious UG & PG College for Women, Nacharam, Hyderabad	Oral presentation of paper entitled "La ₂ O ₃ -TiO ₂ Nano composites: Synthesis, Characterization and Visible Light Induced Photocatalytic Activity", in"	

7	National Conference on Recent Advances in Inorganic and Organometallic Chemistry (RADIOC)- 2023	Balakrishna Matkala, Sasikumar Boggala, Vennela Aluvala and Hari Padmasri Aytam	24 th & 25 th February 2023	Dept. of Chemistry, NIT, Warangal, Telangana State	“Sulphated Ti-MCM-41:A Potential Catalyst for Bio-Glycerol Valorization to Solketal”	
8	Two-day National Seminar on “Chemical Sciences in Sustainable Technology and Developments - Challenges & Opportunities” (CSSTD CO-2023)	M. Vijayatha, B. Ravali, K. Venkatesham, Ch. Swaroopa, A. Hari Padmasri	24 th -25 th February, 2023	Dept. of Chemistry, TSWRD&PGCW, Mahendrahills, held at Kanha Shantivanam, Shamshabad.	Titania Nano Composites as Efficient Catalysts for Visible Light Induced Degradation of Ciprofloxacin	
9	Two-day National Seminar on “Chemical Sciences in Sustainable Technology and Developments - Challenges & Opportunities” (CSSTD CO-2023)		24 th -25 th February, 2023	Dept. of Chemistry, TSWRD&PGCW, Mahendrahills, held at Kanha Shantivanam, Shamshabad.		

Prof. B. Sireesha

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes	Link to the Activity report on the website
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					oral/post)	
2022	Two day International Seminar on “Current Trends and Futuristic Challenges in Chemical Sciences”	200	29-07-2022 to 30-07-2022	Dept. of Chemistry, University college of Science, Osmania University	Paper presented	Equilibrium and Computational studies of 1-formyl-4-methyl-3-thiosemicarbazide: DNA Binding and Biological studies of its Co(II) complex
2022	Two day International Seminar on “Current Trends and Futuristic Challenges in Chemical Sciences”	200	29-07-2022 to 30-07-2022	Dept. of Chemistry, University college of Science, Osmania University	Paper presented	Computational study of 1-Acetyl-4-phenyl-3-thiosemicarbazide (APTSC): Biological studies of its Cu(II) chelate

Dr. K. Laxma Reddy

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes oral/post)	Link to the Activity report on the website
2022	Two Days Virtual International Conference on Chemical Advances on		12th to 13th April, 2022	Department of Chemistry, University college for Women, Koti	Poster Synthesis, structural characterization invitro, DNA binding and cytotoxic	

	Sustainable Development (CASD 2022)				properties of ruthenium complexes containing TMPIP ligand	
2022	Two-day International Seminar on "Current Trends & Futuristic Challenges in Chemical Sciences"		29th and 30th July 2022	Department of Chemistry, Osmania University, Hyderabad.	Poster Presentation – Design synthesis characterization of (S)-2-((1-(substituted phenyl 2)-1H-1,2,3-triazole-4-yl) methoxy(-1-(pyrrolidine-1-yl)propane-1-one and ...derivatives and their antimicrobial evaluation	

Dr.P. Muralidhar Reddy

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes oral/post)	Link to the Activity report on the website
2022	Two Days Virtual International Conference on Chemical Advances on Sustainable Development (CASD 2022)		12th to 13th April, 2022	Department of Chemistry, University college for Women, Koti	Oral Presentation – Applications of Magnetic Nano Fe ₃ O ₄ in Environmental, Forensic and Food Sciences	
2022	Two-day International Seminar on "Current Trends &		29th and 30th July 2022	Department of Chemistry, Osmania University,	Oral Presentation - Synthesis, Structure, Antimicrobial, DNA binding and DFT	

	Futuristic Challenges in Chemical Sciences”			Hyderabad.	Analysis of Bioactive Cu(II), Ni(II) and Co(II) complexes obtained from (thiophen-2yl) methanamine Schiff base Ligands	
2022	International Conference on Ultrasonic and Material Science for Advanced Technology (ICUMSAT-2022)		1st to 3rd August 2022	Telangana University, Dichipally, Nizamabad, Telangana in association with Ultrasonic Society of India	Oral Presentation - Benzimidazo Quinazoline Based Metal Complexes: Synthesis, Characterization and In vitro Anticancer Activity	
2022	Two-Day National Conference on Recent Innovations in Smart/Nano Materials (NCRISNM-2022)		29th to 30th April 2022	Department of Physics, University College of Science, Osmania University, Hyderabad, Telangana	Oral Presentation – Functionalized Iron Oxide Nanoparticles as Microplastic Adsorbents	
2022	AU- Pharmacon – 2022, 6 th National Conference on Trending Research and Innovations in Pharmaceutical Sciences		22nd & 23rd July 2022	School of Pharmacy, Anurag University, Hyderabad, Telangana	Oral Presentation – Development and Validation of RP-HPLC method in Simultaneous Estimation of Bilastine and Montelukast as tablet dosage form	
2022	Emerging Trends and Innovations in Pharmaceutical Sciences (ETIPS -		13th & 14th Oct 2022	University College of Pharmaceutical Science,	Oral Presentation – Quantitative Determination of Imipramine HCl & its	

	2022)			Palamuru University, Mahabubnagar, Telangana	Pharmaceutical Formulation Using FTIR & UV-Vis Spectroscopy	
2022	National Seminar on Bioinorganic & Medicinal Chemistry (BMC-2022)		29th & 30th November 2022	Department of Chemistry, University College, Telangana University, Nizamabad, Telangana	Oral Presentation – Design, Synthesis & Biological Evaluation of Some New 1,3,4 Oxadiazoles”	
2022	Interdisciplinary Approaches on Chemical & Physical Sciences		28th & 29th Oct 2022	University College of Engineering, Bharathidasan Institute of Technology Campus, Anna University, Tiruchirappalli, Tamil Nadu	Bioanalytical Method Development and Validation of Obeticholic Acid and its Active Metabolites using Liquid Chromatography-Mass Spectrometry	

Dr.M.Kavitha

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes oral/post)	Link to the Activity report on the website
2022	Two-day International Seminar on "Current Trends &		29th and 30th July 2022	Department of Chemistry, Osmania University, Hyderabad.	Poster “Development and validation of a stability-indicating	

	Futuristic Challenges in Chemical Sciences”				RP- HPLC assay method and stress degradation studies for the estimation of Premetrexed in API and Pharmaceutical Dosage form”	
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Dr. B. Vijaya Kumar

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes oral/post)	Link to the Activity report on the website
2022	International winter School 2022 on	35	05 th -9 th Dec 2022	JNCASR, Bangalore	Yes	
2022	Current Trends & Futuristic Challenges in Chemical Sciences		29th and 30th July 2022	Department of Chemistry	yes	

5.8 Subject related extension activities involving interaction with society/community/institutions

Guest Lectures delivered by the Faculty Members:

S.No.	Name of the Faculty member	Topic	Place/Date
1.	Prof. P. Saritha Reddy	ESR in Metal complexes	HRDC, OU on 2 nd May 2022

2.	Dr. A. Hari Padmasri	Nano Catalysts: Strategic to Meet Sustainability Challenges	Lecture delivered on 18 th October 2022 in Online Refresher Course in Nanobiochemistry and Bioinformatics organized by the UGC-HRDC (Academic Staff College), Osmania University, Hyderabad from 11.10.2022 to 24.10.2022
3.	Dr. A. Hari Padmasri	Thermodynamics to UG & PG students	Delivered an Extension lecture on 4 th November 2022 at Dept. of Chemistry, St. Pious UG & PG College for Women, Nacharam, Hyderabad.
4.	Dr. A. Hari Padmasri	Report writing and Dissertation” to UG students	Delivered an invited talk on 14 th November 2022 at Dept. of Chemistry, St. Pious UG & PG College for Women, Nacharam, Hyderabad.
5.	Prof. B. Sireesha	Spectroscopy: An Introduction - Applications in research	UGC– HRDC, Osmania University; 10-06-2022
6.	Prof. B. Sireesha	Atomic Absorption Spectroscopy in “Hands on Training program on the applications of Advanced Research techniques by using sophisticated instruments in life sciences” under DST STUTHI	National Institute of Technology Warangal (HUB) & Osmania University (SPOKE), 21-01-2023
7.	Prof. B. Sireesha	NMR Spectroscopy	St. Pious X Degree and PG College for Women, Hyderabad; 07-02-2023
8.	Dr. M. Kavitha	Refresher course in nano biochemistry & biotechnology	UGC-HRDC, Osmania University, October 2022
9.	Dr. P. Muralidhar Reddy	Mass Spectrometry	OU PG College, Mirzapur, April 2022
10.	Dr. P. Muralidhar Reddy	Drinking Water and Sewage water Treatment	OU PG College, Mirzapur, May 2022
11.	Dr. P. Muralidhar Reddy	Advanced MS	OU PG College, Mirzapur, Dec 2022
12.	Dr. P. Muralidhar Reddy	Advance Separation Techniques	OU PG College, Mirzapur, Dec 2022

8 - Brief Report on the analysis of Students Performance – Course-wise (Final Year only)

8.9 Analysis of student performance in the last five years.

Sl. No	Course	Students		2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
1	2	3	4	5	6	7	8	9
1		Registered	Boys					
			Girls					
2		Passed	Boys					
			Girls					
3		Percentage	Boys					
			Girls					

8.10 Scholarships / Fellowships earned by students (State / Council agencies / University).

Sl. No	Course	No. of students	No. awarded	Nature of Scholarships						
				State Govt.	Amount	Central Govt. Agencies	Amount	Univ.	Amount	Total Amount
1	2	3	4	5	6	7	8	9	10	11

8.15 Brief Report on the Alumni Associations, its activities and contribution to the University (*about 2 pages*)

- ❖ The Osmania University Chemistry Alumni Association is formed in the year 2009 by its Founder President Prof. K. Veera Reddy. The Alumni Association activities are in the areas of infrastructural developments, arranging endowments lectures, Institution of (3) Gold Medals to encourage students in the academics.

Osmania University Chemistry Foundation (OUCF), a group of elite Alumni of the department consisting of the industrialists, bureaucrats and NRIs had been contributing immensely through supporting some of the renovations in the department of chemistry, in organizing the International Seminar.

Some of the elite Alumni have visited the department, contributed by sharing their knowledge and interaction with the students, research scholars and the faculty members of the department.

S.No.	Guest Lecture/Interaction event
1	<p>Interaction & Felicitation to Dr MSN Reddy, Founder, Chairman & Managing Director, MSN Labs, a Mega donor of the Dept. of Chemistry, OU was Organized by Department of Chemistry & Osmania University Chemistry Foundation (OUCF) On 11th April 2022.</p> <p>Dr MSN Reddy donated 1.05 crores to OUCF for the infrastructure development and supporting academic activities of the Dept. of Chemistry, OU. He interacted with the students, scholars and faculty members and promised to encourage the students for securing internships, field visit to MSN labs and placements.</p>
2	Interaction session was organized by Dept. of Chemistry & OUCF with Dr Ravinder Sudini, Senior Pharmaceutical Consultant, Sudini Pharma on 28 th Oct, 2022 with regard to career opportunities for MSc students and research scholars. He contributed about \$10k to OUCF for the benefit of Department of Chemistry, OU.
3	Guest Lecture was organized by Dept. of Chemistry & OUCF on “Synthetic methodologies to drug discovery to treat Epilepsy and Alzheimer’s disease” and Interactive session by Dr Ganesh Thota, Professor, Emory University, USA on 29 th NOV, 2022.
4	Global Alumni meet was conducted on 4 th January 2023 by Osmania University and several alumni had visited and interacted.

13. Academic Profile of the Department – Statistical data

13.1 (a) Status of Faculty Strength

Sl. No	Sanctioned				Number of Posts							
					Filled				Vacant			
	Prof	Asso. Prof	Asst. Prof	Total	Prof.	Asso. Prof	Asst. Prof	Total	Prof	Asso. Prof	Asst. Prof	Total
1	2	3	4	5	6	7	8	9	10	11	12	13

(b) Faculty recruitment status during the year

Sl. No	No. of posts vacant				No. of posts advertised				No. of post filled			
	Prof	Asso. Prof	Asst. Prof	Total	Prof	Asso. Prof	Asst. Prof	Total	Prof	Asso. Prof	Asst. Prof	Total
1	2	3	4	5	6	7	8	9	10	11	12	13

(c) Permanent teachers on rolls

Sl. No	Professors		Assoc. Professors		Asst. Professor		Total
	Male	Female	Male	Female	Male	Female	
1	2	3	4	5	6	7	8
	05	05	01	00	05	01	17

13.2. Temporary Teachers (Retired / Re-employed / Working on temporary / ad-hoc basis/ Academic Consultants)

Sl.No	Category of the teacher	Number		Total
		Male	Female	
1	2	3	4	5

13.3. Department-wise Seminars / Conferences organized:

Sl.No	Department	Title of Seminar/ Conference	Name of the Coordinator	National / International	Duration & dates	Sponsoring agencies	Remarks
1	2	3	4	5	6	7	8

13.4. Department-wise Workshops / Training programs organized//Name of the Coordinator

Sl.No	Department	Workshop/ Training programme	Name of the Coordinator	Teaching / Non-Teaching	Duration & dates	Sponsoring agencies	Remarks
1	2	3	4	5	6	7	8
1	Chemistry	STUTI – A One Week workshop was organized in collaboration with NIT-Warangal on “Characterization of Materials/Compounds by using Advanced Instruments”for MSc students and Research Scholars	Dr P V Ananthalakshmi & Dr P Someshwar	Teaching	16 th – 22 nd July 2022	DST-India	

13.5. Details of Minor/Major research projects sanctioned/Completed during the year

Sl.No	Department	Name of the Teacher	Major Project(or) Minor Project	Project title	Sponsoring agencies	Amount Rs.	Duration	Ongoing /Completed	Sanctioned Date/Completed Date
1	2	3	4	5	6	7	8	9	10
1	Chemistry	Dr P Saritha Reddy	Minor	“Green route for efficient synthesis of fluorine containing Schiff bases and	DST-PURSE program	2,35,000	3 years	completed	2019 -2022

				their complexes as potent Bio active agents: DNA interaction, Docking, In vitro antimicrobial screening and Cytotoxic studies.					
2.	Chemistry	Dr. B. Vijaya Kumar	Major	Development of tunable p-n heterojunctions for gas sensing and photocatalytic applications	DST-SERB		3 Years	Ongoing	
3.	Chemistry	P. Muralidhar Reddy	Major	Development of a graphene-based direct Naisal cell-based mass spectrometry technique for the detection of biomarker molecules	Ministry of Science and Technology (MOST), R.O.C., Taiwan	9,48,250 (NTD) Rs. 25, 52, 106/-	2022-2023	Ongoing	August 1, 2022

4.	Chemistry	P. Muralidhar Reddy	Minor	Development of a Rapid and Cost-effective Advanced Mass Spectrometry Approach for the Evaluation of Vitamin D Deficiency	Project Related Grants (PRG), DST, GoI & TSCOST	4,00,000	2022-2023	Ongoing	March 21, 2022
5.	Chemistry	P. Muralidhar Reddy	Minor	Development and Standardization of Immunity Boosting Polyherbal Infusion Bags	Project Related Grants (PRG), DST, GoI & TSCOST	4,00,000	2022-2023	Ongoing	March 21,2022
6.	Chemistry	Dr. Someshwar Pola, Co-PI	Major	Development of Multiferroic tapes for Sensing and Energy Harvesting Applications	DMRL-DRDO	15,71,570	2021-2024	Ongoing	
7.	Chemistry	Prof. M Vijjulatha	Major		DST SERB Empowerment and Equity Opportunities for Excellence in Science	Rs. 42 Lakhs	2019-2023	Ongoing	

13.6. Department under SAP

Sl.No	Department	Year of Sanction	Phase	Amount Sanctioned	Research fellowships sanctioned	No. of seminars conducted	Any other info
1	2	3	4	5	6	7	8

13.7. Department under FIST / COSIST / any other.

Sl.No	Department	Category	Year of sanction	Amount Sanctioned	Major equipment purchased	Any other info
1	2	3	4	5	6	7

13.8. Department-wise Publications: **(Please refer to 5.1)**

Sl.No	Department	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication Volumes. Issuee	ISSN number	Impact factor of the journal	Link to the recognition in UGC enlistment of the Journal
1	2	3	4	5	6	7	8	9	10
(Please refer to 5.1)									

13.9. Teacher participation in the Seminars / Conferences/ Work shop/symposia: **(Please refer to 5.7)**

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Organised by	Whether presented a paper (yes/No) (of yes	Link to the Activity report on the website

					oral/post)	
	(Please refer to 5.7)					

13.10. Faculty visits abroad on academic purpose.

Sl. No	Name of the Department	Name of the teacher	Institution visited & period of visit	Country	Sponsoring agency	Activity undertaken
1	2	3	4	5	6	7

13.11. Awards / distinctions received by the teacher: **(Please refer to 5.5)**

Sl.No	Name of the Department	Name of the teacher	Name of the Award	International/ National / State level	Nature of award	Date
1	2	3	4	5	6	
(Please refer to 5.5)						

13.12. Faculty distinction – nominated / elected to State / National / International bodies: **(Please refer to 5.5)**

Sl.No	Name of the Department	Name of the teacher	Membership / Distinction earned	Organization	International / National / State level
1	2	3	4	5	6
(Please refer to 5.5)					

13.13. Collaborative academic programs with other universities / organizations / industries/abroad : **NONE**

Sl.No	Name of the Department	Name of the program	Nature of Collaboration	Collaborating organization & Country	Objectives of MoU	Date of MoU
1	2	3	4	5	6	7

13.14 No. of M.Phil/ Ph.D scholars admitted /awarded during the year 2021-2022 (01.04.2022-31.03.2023)

S.N O	Dept. Name	Registration No.	Name	Supervisor name	Male/ Female	Caste (OC,BC-(A,B,C, D,E),SC, ST)	MINORITY	PWD (YES/ NO)	Title of thesis	Fellowship type	Fellowship granting agency	Duration of fellowship	QUALIFYING EXAM/ADMISSION TYPE (OU,SET,NET CSIR UGC, OTHERS)	Awarded Date
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Ph.Ds Awarded:

Sl.No	Name of the Department	No. of Ph.Ds. degrees awarded	No. tested with plagiarism software
1	2	3	4
	Chemistry	8	8

Prof. Utkoor Umesh Kumar

S.No	Name	Academic Year/ Degree awarded	Title of the PhD Thesis
1	K. CHANDRA REKHA	2022	A Novel Green Synthesis of Silver and Gold Nanoparticles, Characterization and applications.
2	VIJAYA SHEKAR PULUSU	2022	Co-Fe Prussian Blue Analogue and Silica Supported Acids as Efficient Catalysts for Certain Electrophilic Aromatic Substitution Reactions Under Solvothermal And Solvent Free Conditions

Prof. P. Saritha Reddy

S. No	Name	Academic Year/ Degree awarded	Title of the PhD Thesis
1.	Dr. M.Sravanthi	2022	Binary and Ternary Schiff Base Transition metal complexes derived from o-hydroxyacetophenone – Synthesis, Spectral, DNA interaction, Biological, Kinetic and In Vivo anti-inflammatory studies
2.	Dr. A. Srinivas Reddy	2022	Development of suitable Analytical methods for identification of base alcohol in liquors and adulterants in toddy.

Prof. B. Sireesha

S.No	Name	Academic Year/ Degree awarded	Title of the PhD Thesis
1	ST Leena Carlin	December 2022	Spectro-analytical, Computational and Biological studies of aroyl thiosemicarbazide derivatives and their chelates

Dr. Raju J. Reddy

S. No	Name	Academic Year/ Degree awarded	Title of the PhD Thesis
1	Dr. Md. Waheed	2022/PhD	Development of novel methodologies for the synthesis and applications of thiosulfonates: a facile construction of 4,5-disubstituted-1,2,3-triazoles, submitted on 25-01-2022 and awarded on 05-July-2022.
2	Dr. A. Shankar	2022/PhD	Studies Towards the Synthesis of N-Sulfonyl Triazoles, Allyl Sulfones and C3-Functionalized Imidazo[1,2-a]pyridines under Metal-Free Conditions, submitted on 29-Apr-2022 and awarded on 18-Nov-2022.

Dr. T. Gangadhar

S.No	Name	Academic Year/Degree awarded	Title of the PhD Thesis
1	Mr. Malegaon Vishnu Vardhan	2022-23	Synthesis of Novel Nitrogen Heterocyclic Hybrids and Evaluation of their Biological activity.

13.15. Department –wise M.Phils awarded : **COURSE IS NOT OFFERED BY THE DEPARTMENT**

Sl.No	Name of the Department	No. of M.Phils. degrees awarded	No. tested with plagiarism software
1	2	3	4

13.16. Faculty on editorial board of refereed research journals. **NONE**

Sl.No	Name of the Department	Name of the Teacher	Status on the Editorial Board	Name of the Journal	ISSN Number	Periodicity of Publication	Year of inception of the Journal	Impact factor of the Journal
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1	2	3	4	5	6	7	8	9

13.17. Number of Patents applied for and obtained

Sl.No	Name of the Department	Name of the Teacher	Title of patent filed	Filed/Approved/Granted	National / International	Country Name	Patent Registration Number
1	2	3	4	5	6	7	8
1.	Chemistry	P. Muralidhar Reddy	Novel Sensitive and Advanced Clinical Mass Spectrometry Kit for Evaluation of Vitamin-D Deficiency	Bundesrepublik Deutschland	International	German	20 2022 105 300 IPC: G01 33/82
2.	Chemistry	P. Muralidhar Reddy	“Machine for Processing of Pharmaceutical Fine Chemical & Food Products”	Granted Patent Grant No: 369318-001, Grant Date: 05/01/2023	National	Indian	Patent Grant No: 369318-001, Grant Date: 05/01/2023
3.	Chemistry	P.Jalapathi	Antiproliferative 1,2,3-Triazole Analogues	Approved	National	INDIA	202241026111
4.	Chemistry	P.Jalapathi	Antiproliferative-active Piperzino methyl Triazole compounds	Approved	National	INDIA	202241033244

13.18. Consultancy projects/ Services : **NONE**

Sl.No	Name of the Department	Name of the Teacher	Title of project	Organization	National/ International	Country	Nature of Consul	Funds Sanctioned	Funds Released till now	Sanctioned Date(or)Com	Ongoing /
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	t						tancy			pleted Date	Comple ed
1	2	3	4	5	6	7	8	9	10	11	12

13.19. No. of courses in which project work is introduced as part of the courses. **NONE**

Sl.No	Name of the Department	Name of the Courses	Duration of the project work	Sponsoring agency	No. of credits given
1	2	3	4	5	6

15. Student Performance profile – Statistical data

15.9 Analysis of student performance at entry level and exit level

Sl.No	UG / PG	Name of the Faculty	Average marks in the qualifying exam at entry level	Average marks in the qualifying exam at exit level
1	2	3	4	5
1. University Colleges				
	A) UG	1		
		2		
		3		
	B) PG			
		1		
		2		
		3		
2. Affiliated Colleges				

15.21

	A) UG	1		
		2		
		3		
	B) PG	1		
		2		
		3		

Students qualified in NET / SLET etc., **NONE**

Sl.No	Subject	No. of students qualified				
		NET	TSSET	UPSC Civil Services	TSPSC G-1	Total
1	2	3	4	5	6	7
1						

Other Activities/Achievements:

MSc Chemistry-5 Yr Integrated (Palamur University) - Students' Project Dissertation Details:

List of Students:

S.No.	Name of the student	Roll No.	Title of Dissertation Thesis	Date of Submission
1	K. Venkatesham	1701529021	Ultrasonication as a Tool for Facile and Efficient	July 2022

			Photocatalytic Degradation of Acid Alizarin Violet N Dye under Visible and Solar Light over modified TiO ₂ Catalysts	
2	Y. Prashanth	1701529016	Solar And Visible Light Induced Photocatalytic Degradation Of 4-Chloro Phenol Over Doped TiO ₂ Catalysts	July 2022

Any other information:

Students in general are placed every year with 10-15% - Industries such as Heterodrugs, Mylan, MSN labs, Suven life sciences, GVK Bio, Dr Reddys, Syngene laboratories etc 20-30% - Educational Institutions as Lecturers including placements from Akash institutions, FIIT-JEE etc., 40% - pursue Research.

STUDENTS ACHIEVEMENTS

1 Students who qualified TSET exam in 2022:

2019-21 Batch:

1. B. Ravali
2. Sahaja
3. Sameera
4. Laxman
5. Bindhu bharathi
6. Shirisha

2020-22 Batch:

1. Sai Kumar
2. Sai Meghana
3. A. Shruti
4. Surabhi
5. Hafsa Jabeen

2021-23 Batch:

-
1. Ajay
 2. Jalandhar
 3. Sai Kumar Gaddam
 4. Ch.naveen
 5. G.nandini reddy
 6. Shirolu Dabbikar

- | | |
|---|---|
| 2 | Students who qualified GATE 2022:
2021-23Batch:
1. Prasuna
2. Ajay
3. Jalandhar |
| 3 | Mr. V. Sai Krishna of MSc I year student of Dept. of Chemistry visited Japan under the Sakura Science Exchange Program between Osmania University and Shibaura Institute of Technology, Japan during February 5 th to 15 th 2023 along with a team of other 10 students of Osmania University |
| 4 | MSc I year students visited and participated in SAMYUKTH 2022 program at CSIR-IICT, Hyderabad on 1 st December 2022. |
| 5 | Vikki and Venkata Nagendra won first prize in the quiz competitions conducted by University College of Science, OU during Annual Day celebrations |
| 6 | Venkata Nagendra won second prize for the poster presentation competition conducted by Dept. of Botany, OU during National Science Day celebrations on 13 th February 2023 |
| 7 | Chandraprakash of MSc I year won 2 nd Prize in elocution competition conducted by Dept. of Botany, OU during National Science Day Celebration on 14 th February 2023. |
| 8 | Divya of MSc I year won 2 nd Prize in Essay writing competition conducted by University College of Science, OU during Annual Day celebrations |
| 9 | Nivas of MSc I year won 2 nd Prize in Essay writing competition conducted by University College of Science, OU during Annual Day celebrations |
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Placements Data

Name of the	Names of the Companies where students were hired	
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Student				
A. Mallesh	Syngene International	Akash Byjus	Tutoroot	
M. Bhavana	Syngene international			
T. Ramya	Syngene international			
Shirolu Dabbikar	Syngene international			
K. Usha Sri	Syngene international			
S. Nikitha	Syngene international			
G. Sreenivas	Syngene international			
A. Chiranjeevi	Syngene international			
T. Rasi	Syngene international			
N. Harika	Syngene international			
G. Nandini	Syngene international	Akash Byjus		
K. Athma Charan Reddy	Syngene international			
	Syngene international			
S. Harish	Syngene international			
K. Ramadevi	Syngene international			
B. Rupali		Akash Byjus	Tutoroot	Next Education (internship)
Arati Poul				
E. Reshma				
K.G. Gayatri				

S.L. Harika			Tutoroot	
Y. Sravani Reddy		Akash Byjus		
Prasanna		Akash Byjus		

Signature
Head of the Department