



**University College of Science
Tumkur University Tumkur**

Accredited with B+ Grade

(CONSTITUENT COLLEGE OF TUMKUR UNIVERSITY)

ANNUAL REPORT

2021-22

UNIVERSITY COLLEGE OF SCIENCE

(Accredited with B+ Grade)

CONSTITUENT COLLEGE OF TUMKUR UNIVERSITY

- VISION** To Achieve Academic Excellence in Higher Education and Research
- MISSION** To inculcate and nurture young talents and evolve an effective mechanism for greater participation of all the stakeholders of the University College of Science.
- To develop and operationalise a strategy to foster financial self-sufficiency and self-reliance.
- To promote cordial working conditions, work ethics, work culture among the faculty and staff members thereby promoting welfare of the students and the society.
- To introduce innovative curricular framework aimed at knowledge, skill and aptitude-based, application-oriented higher education and research.
- GOALS**
- To disseminate advanced Knowledge by providing institutional and research facilities in all the branches of learning.
- To take appropriate measures for promoting innovative in teaching-learning process and inter-disciplinary studies and research.
- To educate and train manpower to acquire skills.
- To establish linkages with industries for the promotion of science and technology.
- To pay special attention to the improvement of social and economic conditions and welfare of the students, their intellectual, academic and cultural development.
- Strategic policies required for translating into action the vision, mission and objectives of the University, leading to excellence in teaching, research, publication, consultancy, patents and intellectual property.
- Identifying and focusing on development at least five major academic programmes in the areas that are high in demand but are low in supply and quality in the public Universities.

Training, skill upgradation, skill development and skill recognition of the local population by the Institution.

Establishing a Computing & Information Technology Centre, Central Instrumentation Facility, Museum and Archives, Herbarium/Botanical/Herbal Garden.

Principal : Dr. Shalini B R

Vice Principal : Smt. Rathnakumari V C

PROGRAMME OFFERED BY THE INSTITUTION

Sl.No.	Level	Programme	Broad Discipline Group Category	Broad Discipline Group Name	Year of Start
1	Post Graduate	M.Sc--Master of Science	Science	Chemistry	Prior to 2010
2	Post Graduate	M.Sc.-Master of Science	Science	Environmental Science	2010
3	Post Graduate	M.Sc.-Master of Science	Science	Physics	Prior to 2010
4	Under Graduate	B.Sc.- Bachelor of Science	Science	Science	Prior to 2010
5	Under Graduate	B.C.A- Bachelor of Computer Applications	IT & Computer	Computer Application	2019
5	Under Graduate	B.Sc.- Bachelor of Science	Science	Science	Prior to 2010

DEPARTMENTS AND TEACHING STAFF

Department	Faculty Strength	
	Permanent	Guest Faculty
Botany	01	05
Bio-Technology	03 (One Deputed to EVS Department)	03
Bio-Chemistry	02	---
Chemistry (UG and PG)	13 (One Deputed to PG Department)	14
Computer Science/ Computer Applications/B. Voc.	03 (One Deputed to PG Department)	16
English	02	04

Electronics	02	01
Environmental Science	01(on Deputation)	---
Kannada	03	03
Library and Information Centre	01	---
Mathematics	01	11
Micro Biology	02	02
Physics (UG and PG)	11	06
Physical Education and Sports	01	02
Zoology	03 (01 Deputed to PG Department)	06
Hindi	---	02
Urdu	---	01
Sanskrit	---	02
Indian Constitution/Political Science	---	02

NON TEACHING STAFF

Sl. No	Designation	Number
1	Superintendent	01
2	FDA	02
3	SDA	02
4	Data Entry operators	02
5	Attenders (Office and Laboratory)	13

LIBRARY AND INFORMATION CENTER

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1	Rajalaxmi A. Govanakoppa	Assistant Librarian	M.L.I.Sc., (Ph.D)
2	Shruthi K	Library Assistant Grade-II	M.L.I.Sc.,

Details of Books/Journals/Articles Procured:

1. Purchase of Books, Journals, Newspapers and Magazines for the year of 2021-22

Purchased a number of subject and reference books, taken to stock by entering in Accession Register and classification is in progress. All the new books purchased are entered in the Library Management Software and printing and labeling of Barcode labels to new books is done. Tagging of RFID tags to newly purchased books is done. Subscribed state, national and international Journals. Subscribed 13 newspaper and 32 magazines in a different language like Kannada and English for the year 2021-22

2. Library Automation:

- To bring in total library automation Library data is totally computerized with the help of **e-Lib i-NEXT** Integrated Library Management software. Total **50,972 books** added to the software.
- Serials subscription system is maintained by entering the data in the **E-Lib** Integrated Library Management Software.
- To support Library Automation, Printing and labeling of Barcode labels to all books is in process.
- To support Library Automation RFID technology is implemented and tagging RFID tags to books is in process.

3. E-Resources:

- Library has access to more than **6000 + e-journals** (including current issues with 5-10 years back files) and **31,35,000 + e-books** through program entitled "**National Library and Information Services infrastructure for Scholarly Content (N-LIST)**" by INFLIBNET.

HOSTELS

The college has separate hostel facilities for boys & girls, with each of them having different capacities according to the strength of the students. The college offer clean, comfortable and safe hostels for all the students in the campus. Hostel wardens have been assigned to each hostel for the security and comfort of the students. The facilities provided and the atmosphere at the hostels ensures that the students have the calm and peace of mind, which is essential for them to grow academically.

It is obvious that all the hostelites enjoy the health and hygienic supplies time to time with all modern amenities, maintained neat and well. It has become simpler and cashier to bag good reputations with available facilities making the college unique itself.

The UG girls' and boys' hostel is managed by Tumkur university is a paying girls and boys hostel. As majority of the students are from rural and poor background at most care is being taken to offer quality food at reasonable and affordable rates. The students are provided with basic facilities like RO purified drinking water, solar water heater and uninterrupted power supply etc.

OTHER FACILITIES

HEALTH SERVICE CENTRE : 01

POST OFFICE SERVICE : 01

DEPARTMENT OF CHEMISTRY (UG & PG)

Vision

To become center of excellence for studies and Research in Chemical Sciences

Mission

To achieve our vision by developing internally to imbibe values to student continuously improving the facilities to develop students total personality

To provide scientific approach to facilitate the specific interaction among the scientific community and promote research students

To encourage and develop leaders in the field of chemical sciences

To provide value based education and creating efficiencies through coordination.

Goals

To train the students for competitive exams such as CSIR, UGC, ICMR, and ICAR

Enhancing infrastructure development to accommodate research scholars

To patent the research carried out in the department

Initiation of collaborative research activities (National / International Research)

Participation in faculty exchange programs in India and abroad

HOD/Coordinator of the Department: Dr. Jayashankar/Ramesh T N

Faculty Strength

Sl. No.	Name	Designation	Qualification
1	Dr. Prakash M. Shet	Professor	M.Sc., Ph.D.
2	Dr. Sreenivasa S	Professor	M.Sc., M.Phil. Ph.D. DSc.,
3	Dr. Aruna Kumar D B	Associate Professor	M.Sc., MTech, Ph.D.
4	Dr. Vijaya Kumar G R	Associate Professor	M.Sc., Ph.D.
5	Dr. Ramesh T N	Associate Professor	M.Sc., Ph.D
6	Dr. Suresh D*	Assistant Professor	M.Sc., Ph.D.
7	Dr. Jayashankar B	Assistant Professor	M.Sc., Ph.D.
8	Dr. Venkateshappa G	Assistant Professor	M.Sc., Ph.D
9	Dr. Narendra N	Assistant Professor	M.Sc., Ph.D
10	Dr. Nirmal B N	Assistant Professor	M.Sc., Ph.D
11	Dr. Suchethan P A	Assistant Professor	M.Sc., Ph.D
12	Dr. Ragahavendra Kumar P	Assistant Professor	M.Sc., Ph.D.
13	Dr. Sunitha Madavi	Assistant Professor	M.Sc., Ph.D
14	Dr. Savitha K R	Assistant Professor	M.Sc., Ph.D
15	Dr. Bhagya Lakshmi M	Assistant Professor	M.Sc., Ph.D

*On deputation to Department of Studies and Research in Organic chemistry

Students Strength: M.Sc. Chemistry

Sl. No.	Year	Male	Female	Total
1	I	16	47	63
2	II	18	30	48

Result Analysis

	COURSE	Final result
Appeared	BSC	336
	MSc	-
Distinction	BSC	237
	MSc	-
I CLASS	BSC	25
	MSc	-
II CLASS	BSC	00
	MSc	-
TOTAL %	BSC	77.97
	MSc	-

Research Guidance

Sl. No.	Name of the Guide	Name of the Research Scholars	Funding Agency, Full time/Part time	Remarks (registered/thesis submitted/degree awarded)
1	Dr. S. Sreenivasa	Mohan N R	Part time	degree awarded
		Manoj Kumar K E	Part time	degree awarded
		Anitha H C	Part time	degree awarded
		Niveditha R Desai	Part time	degree awarded
		Parashurama L	Part time	degree awarded
		Naveen Kumar	Part time	degree awarded
		Ghouse Khan	Part time	degree awarded
		Akshatha S	Part time	degree awarded
		Raghuram Shetty P	Part time	degree awarded
		Shivaraja G	Part time	degree awarded
		Divyarani K	Full time	registered
		Suresha E	Part time	Registered
2	Dr. Suchetan P.A.	Radha G.K.	Part Time	Registered
		Vidyarani	Part time	Registered

Research Collaboration

Sl. No.	Name of the Faculty	Collaborating Agency/Institution	Remarks
1	Dr. S. Sreenivasa	<ul style="list-style-type: none"> National Institute of Technology, Trichy NITTE Meenakshi Institute of Technology Avinasha Lingam University, Tamil Nadu 	
2	Dr. Suchetan P.A.	<ul style="list-style-type: none"> Jain, University, Bangalore B.M.S. College of Engineering, Bengaluru, Bapatla Engineering College, Acharya Nagarjuna University Post Graduate Research Centre, Bapatla St. Aloysius college, Mangaluru Central Polytechnic College, Vattiyoorkavu, Trivandrum, Kerala Department of Chemistry Howard University, DC, 20059, USA PJ Biousys, Irving, Texas 75038, USA 	Research papers

Orientation/Refresher Course

Sl. No.	Name of the Faculty	Course	Date and Year (From-To)	Organizing College/University
1	Dr. Suchetan P. A.	Participated in the 12 week SWAYAM NPTEL-AICTE Online FDP on Molecular Spectroscopy: A Physical Chemist's Perspective and secured 71% in the proctored examination.	(Jan-Apr 2021)	SWAYAM NPTEL and IIT Madras (online course)
2	Dr. Suchetan P. A.	One Week Online National Faculty Development Program 'Four-Quadrant Model for Development of E-Content, MOOCs and Teacher's e-Kit'.	29 th September to 05 th October 2021	Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PM MNMTT) of Ministry of Education (online course)
3	Dr. Suchetan P. A.	Participated in the 8 week FDP on Chemical applications of symmetry and group theory.	(Jan-Mar 2022)	SWAYAM NPTEL offered by IIT Kanpur (Online course)
4	Dr. Nirmala B N	Nickel metavanadate	2022	Publication in Merging trends in

		nano particles; Green synthesis, characterization and Application.		Environmental Sustainability.
5	Dr. sreenivasa S and Dr. Arunkumar D B	<u>Voltammetry for Sensing Application- Bentham Science Publishers</u>	10-02-2022	Bentham Science Publishers

Conferences/Workshops/Seminars Organized by the Department

Books/ Book Chapters Published (as author/co-author)

- S. Sreenivasa, Applications in Drug detection: Mini Review, 2021, Bentham Science Publishing.

Articles Published in National/International Journals

Dharanendra R A, Shet Prakash M, Shivakumara Sekharappa, Jagannath K V, Electrochemical corrosion behavior of Nickel and Nickel-Reduced Graphene Oxide Coatings on Mild Steel in 3.5% NaCl Solution, ECS Transactions, 107, 1, 2022, 199
Electrochemical corrosion behaviour of zinc and zinc-reduced graphene oxide coatings on mild steel in 3.5% NaCl solution, R. A. Dharanendra, M Shet Prakash, S Sreenivasa, S Shivakumara, Bulletin of Materials Science, 45,149, 2022, 1-8
P. P. Shinoj Kumar, G. Krishnaswamy, Nivedita R. Desai, S. Sreenivasa, D. B. Aruna Kumar ,Highly Facile, Regio- and Stereoselective Synthesis of Spiropyrrolidine-5-aza-2- oxindole Derivatives through Multicomponent 1,3-Dipolar Cycloaddition Reaction and Their In-Vitro and In-Silico Biological Studies 6, 35, 21, 2021, 9407-9414
S. Sahana, G. R. Vijayakumar *, R. Sivakumar, D. Sriram, and D. V. Saiprasad, Synthesis, Docking Study and In-vitro Evaluation of Anti- Tuberculosis Activity of Tri Substituted Imidazoles Containing Quinoline Moiety. Journal of the Korean Chemical Society, 66, 3, 2022, 194-201.
Nuthalapati Poojitha, Madhuprasad Kigga, J. John Rose, Krishna Murthy Potla, Suneetha Vankayalapati, Sampath Chinnam* , Structural, spectroscopic, and in silico studies of 3-(dimethylamino)-1-(thiophen-2-yl)propan-1-ol: A potential antidepressant agent, Suchetan Parameshwar Adimoole, Journal of Molecular Structure, 1250, 3, 2022, 131859
Sunil Kumar M.S., J.P. Shubha, Nagaraju G., Rekha N.D., Nirmala B, Facile combustion derived synthesis of copper oxide nanoparticles: Application towards photocatalytic, electrochemical and DNA cleavage studies, Nano-Structures & Nano-Objects, 2022, 13
T.L. Soundarya, B. Nirmala, Fahad A. Alharthi , B. Nagaraj, G. Nagaraju, HRSL supported fabrication of LiZnVO ₄ nanoparticles: Applications to photoluminescence, dye elimination and biosensing, Materials Science and Engineering B, 2022, 16
T. L. Soundarya, Udayabhanu, Y. T. Ravikiran, B. Nirmala, and G. Nagaraju, Green synthesis of LiZnVO ₄ nanoparticles and its multiple applications towards the electrochemical sensor, supercapacitor, humidity sensing, photoluminescence and antioxidant activities, Journal of Materials Science: Materials in Electronics, 2022, 17
P.C. Nethravathi, M.V. Manjula, S. Devaraja, D. Suresh, Ag and BiVO ₄ decorated reduced graphene oxide: A potential nano hybrid material for photocatalytic, sensing and biomedical applications,

Inorganic Chemistry Communications, 139, 2022, 109327
B Somashekara, GR Vijayakumar, Synthesis, antioxidant and antibacterial activities of quinoline incorporated 2, 4, 5-trisubstituted imidazole derivatives, Indian Journal of Chemistry-Section B (IJC-B) 60, 12, 2021, 1601-1606,
Rajegowda H. R. Suchetan P. A. Butcher R. J, Raghavendra Kumar P*, Synthesis and absolute structure of (R)-2-(benzylselanyl)-1-phenylethanaminium hydrogensulphate : Crystalstructure and Hirshfeld surface analyses, Acta Crystallographica Section E, Research Communications, 75, 2021, 766-769.
Nandini S., Ronald N., Suchetan P. Adimule*, Krishnamurthy P, Anticorrosive Effects of Derivatives of p-(N,N-dimethylamino)benzylidene]amino-1,2,4-triazole on 316 Stainless Steel in HCl Medium: Experimental and Computational Study, Journal of Failure Analysis and Prevention, 21, 2021, 1057-1076
Rachael Natash Mary, Ronald Nazareth, Parameshwar Adimule Suchetan*, Potla Krishnamurthy, Investigation of corrosion inhibition property of triazole based Schiff bases on maraging steel in acid mixtures, Journal of Failure Analysis and Prevention 21, 2021, 547-562
Akshatha, S. Sreenivasa, Akshminarayana, Parashuram Kumar, Udaya Alharthi, Faha Rao, Tadimety & Kumar, Sandeep, Microwave assisted green synthesis of p-type Co ₃ O ₄ @Mesoporous carbon spheres for simultaneous degradation of dyes and photocatalytic hydrogen evolution reaction Materials Science in Semiconductor Processing, 121, 2021, 105432
P. P. Shinoj Kumar, Krishnaswamy G, Nivedita R. Desai, S. Sreenivasa, D. B. Aruna Kumar, Design, synthesis, PASS prediction, in-silico ADME and molecular docking studies of substituted-(Z)-3-benzylidene-5-aza-2-oxindole derivatives (Part-1), Chemical Data Collections, 31, 2021, 100617
Naveen Kumar, Swamy Sreenivasa, Akila Prashant, Vasantha Kumar, Bantval Shivarama Holla, Vivek Chandramohan, Vishwantha, Anshu Kumar Yadav, N'-((3-(substituted phenyl)-1-phenyl-1H-Pyrazol-4-yl)methylene)-(substituted) benzhydrazide: Synthesis, characterization and pharmacological evaluation, Chemical Data Collections, 32, 2021, 100665
Gurunathan, Krishnaswamy, Desai, Nivedita, Raja, Naika Hanuma, Naika, Basappa, Aruna Kumar, Swamy G, Krishna, S Sreenivasa, Synthesis, characterization, antimicrobial and in-silico studies of (1, 1-dibenzofuran-2-yl) ethyl terephthalamide derivatives, Research Journal of Chemistry and Environment, 25, 2021, 68-79
K.S. Prashanth, M.S. Raghu, Fahad A. Alharthi, S. Sreenivasa, V.S. Anusuya Devi, Prakash Krishnaiah, Devika Bhai Rajamma, S. Akshatha, Byong-Hun Jeon, L. Parashuram, Solar light sensitive hybrid Ce ⁴⁺ /3 ⁺ doped perovskite magnesium zirconate nano cubes for photocatalytic hydrogen evolution and organic pollutant degradation in water, Journal of Environmental Chemical Engineering, 9, 2021, 105364
Pruthviraj K., Lohith T. N., Yeshwanth M., Usha G. H., Vanajakshi H. V., Venugopal K. B., Krishnaswamy G., Shivaraja G., Fathima Zohra, Sridhar M.A., Sreenivasa S, Molecular Iodine Catalyzed Solvent Free One Pot Synthesis, Characterization, in-silico ADME, hERG Analysis, Molecular Docking Studies And DFT Analysis OF 2-Substituted 4, 5-Diphenyl-1H-Imidazole Derivatives, Journal of Advanced Scientific Research, 12, 2021, 211-229
Shivaraja Govindaiah, Sanay Naha, Tadimety Madhuchakrapani Rao, B.C. Revanasiddappa, Sudhanva M. Srinivasa, L. Parashuram, Sivan Velmathi, Swamy Sreenivasa, Sulfated magnesium zirconate catalyzed synthesis, antimicrobial, antioxidant, anti-inflammatory, and anticancer activity of benzo[d]thiazole-hydrazone analogues and its molecular docking, Results in Chemistry, 3, 2021, 100197

Papers Published in National/International Conference Proceedings

Racahel Natash Mary, Ronald Nazareth **P. A. Suchetan***, Potla Krishnamurthy, Poster presentation titled "Experimental and Theoretical studies on Schiff Bases derived from Triazoles as Corrosion Inhibitors for Maraging Steel in Acid Mixtures" in two day International e-Conference on New Horizons and Trends in Chemical Sciences (ICNHTCS-22) held during March 25-26, 2022 organized by Department of Chemistry, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in association with Indian Society of Analytical Sciences (ISAS) Nagpur Chapter.

Faculty Participation as Resource Persons

Dr. Sreenivasa S, delivered a lecture on NAAC Accreditation process in Refresher course from 23-8-2021 to 3-9-2021 organized by University of Kashmir.

Dr. Sreenivasa S, delivered a lecture on NAAC Revised guidelines: A paradigm shift in quality initiatives in Refresher course from 26-7-2021 to 1-8-2021 organized by Barkatulla University, Bhopal.

Dr. Sreenivasa S, delivered a lecture on Governance Leadership and Management in Refresher course on 26-8-2021 organized by University of Allahabad.

Dr. Sreenivasa S, delivered a lecture on Issues and difficulties being encountered in the Accreditation process in Training on 21-10-2021 organized by Dr. B R Ambedkar Open University, Hyderabad.

Dr. Sreenivasa S, delivered a lecture on NAAC Accreditation process in Refresher course from 23-12-2021 to 5-1-2022 organized by University of Kashmir.

Dr. Suchetan P.A. served as Reviewer for the journal Analytical chemistry letters (Taylor and Francis publication)

Dr. Suchetan P.A. served as Reviewer for the journal Computational and Theoretical Chemistry (Elsevier publisher).

Dr. Suchetan P.A. served as Reviewer for Journal of Molecular liquids (Elsevier)

Dr. Suchetan P.A. served as Reviewer for Asian Journal of Applied Chemistry Research.

Dr. Suchetan P.A. served as Reviewer for Journal Polycyclic aromatic compounds (Taylor and Francis).

Dr. Suchetan P.A. served as Reviewer for Journal of Molecular Physics (Taylor and Francis).

Dr. Suchetan P.A. served as Reviewer for Orient Journal of Chemistry

Dr. Suchetan P.A. served as Reviewer for Journal of Chemistry (Hindawi publisher)

Any other Activities

Dr. Suchetan P. A, served as UUCMS master trainer Madhugiri Taluk for implementation of UUCMS.

Participated in international forum Kazakhstan on 26-11-2021 organized by IAAR, Kazakhstan.

Department Extension/Co-curricular Activities

Attended social activities like blood camps, social awareness programmes held in college premises.

Reviewed manuscripts of various journals.

Arranged classes for competitive examinations like NET, GATE and KSET.

Attended subject related meetings, associations and subject related workshops.

Prepared study materials, practical experimental videos and manuals for students.

Prepared PowerPoint modules and lecture videos and uploaded to YouTube and slide

DEPARTMENT OF PHYSICS (PG)

Vision : Develop knotty thoughts that leads to inculcation of knowledge

Mission: Facilitate the students, researchers to face the challenge and integrate the knowledge to accelerate the science and technology

Name of the Coordinator: Sri. Harisha Kumar K

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1.	Sri. Harisha Kumar K.	Coordinator, Assistant Professor	M.Sc.
2.	Dr. B.S. Palakshamurthy	Assistant Professor	M.Sc., Ph.D.
3.	Dr. Chikkappa Udagani	Assistant Professor	M.Sc., Ph.D.
4.	Dr. Veerabhadrayya M.	Assistant Professor	M.Sc., Ph.D.

Student Strength

Class	Intake	S.C.		ST		OBC										G.M.		Total	
						C-1		2A		2B		3A		3B					
		B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G
I Year BSc/BA/B Com/BBM/BFA																			
M.Sc. I Year	72	4	3	2	0	2	6	3	12	0	2	3	8	3	5	0	1	17	33
M.Sc. II Year	72	4	2	1	7	1	4	4	7	0	1	3	9	2	5	0	0	15	35
Total	144	8	5	3	7	3	10	7	19	0	3	6	17	5	10	0	1	32	68

Result Analysis

	COURSE	I Sem	II Sem	III Sem	IV Sem
Appeared	M.Sc. Physics	50	50	50	50
I CLASS	M.Sc. Physics	32	37	46	44

II CLASS	M.Sc. Physics	3	2	1	1
PASS CLASS	M.Sc. Physics	0	0	0	0
TOTAL %	M.Sc. Physics	70%	78%	79.6%	90%

Orientation/Refresher Course

Sl. No.	Name of the Faculty	Course	Date and Year (From-To)	Organizing College/University
1.	Dr. Veerabhadrayya M.	National Online Refresher Course/Two Week Faculty Development Program on Structural Analysis Using Rietveld Refinement, Microscopic And Compositional Analysis	29/09/2021 to 13/10/2021	Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education. Govt. of India.

Conferences/Workshops/Seminars Organized by the Department

One day International webinar on the occasion of Albert Einstein's Nobel Prize Centenary year on "Materials for Energy Applications" in collaboration with Siddaganga Institute of Technology and Indian Association of Physics Teachers (IAPT RC12A) on 09 Nov 2021.

One day National webinar on the occasion of Albert Einstein's Nobel Prize Centenary year on "Albert Einstein – Life and Contributions" in collaboration with Indian Association of Physics Teachers (IAPT RC12A) on 20 July 2021.

National Science day Celebration Lecture Series on 04 Mar 2022.

Articles Published in National/International Journals

T. Vennila, Raviteja Surakasi, K.S. Raghuram, G. Ravi, S. Madhavarao, Chikkappa Udagani, M. Sudhakar, Investigation on tensile behaviour of Al/Si₃N₄/sugarcane ash particles reinforced FSP composites, Materials Today: Proceedings, Volume 59, Part 2, 2022, Pages 1266-1270, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.11.477>.

M. Lokesh, A. Sankar, Shivashankara, Ishrat Meera Mirzana, Chikkappa Udagani, A.S. Rajesh, Investigating the mechanical strength of adhesive joints at different concentration of nanoparticles, Materials Today: Proceedings, Volume 69, Part 3, 2022, Pages 1066-1070, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.08.168>.

Department Extension/Co-curricular Activities

Popularization of Science Program at Siddaganga Rural High School, Areyur.

DEPARTMENT OF ENVIRONMENTAL SCIENCE (PG)

Vision:

The vision of the department is to excel in education, research and outreach with a strategic focus on functions of various environmental systems, technology and its impact on the society.

Mission:

The mission of the department is to provide a stimulating learning environment that produces skilled professionals who can sustainably manage world's natural resources

Goals:

Short Term Goals

Impart training to students to be knowledgeable and skilled in science of sustainable resource management

Analysis of local environmental problems and try to find sustainable solutions at multiple levels

Identify Limiting factors for critical environmental processes and significant micro-organisms

Identification of key biotic interactions in environmental hot spots

Study Structure and function of food webs in limiting environments

Long Term Goals

Work closely with internationally renowned scientists specializing in biotechnology, public policy, environmental economics, and social justice.

Create a framework that can provide new insights and raise new questions, providing unique opportunities for multi- and interdisciplinary research and education.

Establish a Centre for meta-analysis on identification of environmentally favorable traits.

Integrate biological systems, climate and energy sustainability in all future research programmes.

CHAIRMAN/CO-OORDINATOR: Dr. Raja Naika

FACULTY

Name	Designation	Qualification	Specialization
Dr. Raja Naika	Assistant Professor	Ph.D	Biotechnology

TOTAL NUMBER OF RESEARCH PUBLICATIONS:

In international journals published abroad with Impact factor -03

Research Projects :

Sl No.	Title of The Project	Name of The Principal Investigator / Department	Type	Funding Agency	Total Grant Sanctioned	Sanctioned Date	Status
1.	Biogenic Synthesis Of Nano Materials And Their Environmental Applications	Dr. H. Raja Naika /DOSR In Environmental Science	Minor	Vgst	3,00,000/-	10/11/2020	Ongoing

DEPARTMENT OF PHYSICS (UG)

Vision: Our vision is to cultivate a dynamic and inclusive environment where curiosity thrives, leading to groundbreaking discoveries in the realm of physics. We aspire to be at the forefront of advancement in physics, shaping the future of physics and empowering individuals to tackle society’s most pressing challenges.

Mission: To foster a collaborative community of scholars dedicated to pushing the boundaries of knowledge in physics through rigorous research and experimental learning. We are committed to providing high-quality education, training the next generation of physicists, and engaging with society to promote scientific literacy and address real-world problems.

Goals: Advancing fundamental understanding by doing cutting-edge research , providing high- quality education and training to students, collaborating with other departments and institutions to tackle complex scientific problems, creating an environment that celebrates diversity, promotes equity and fosters inclusivity and ensuring equal opportunities to thrive in physics.

Sl. No	Name of the faculty	Designation	Qualification
1.	Dr. Chethan Pratap K N	Assistant Professor, HOD	M.Sc , PhD
2.	Dr. J Malleshappa	Assistant Professor	M.Sc, M.Phil, PhD
3.	Dr. G. Ramakrishna	Assistant Professor	M.Sc, M.Phil, PhD
4.	Dr. R.G.Vaidya	Assistant Professor	M.Sc , PhD
5.	Mr. Hemantha M	Assistant Professor	M.Sc

6	Mr. Narayan Gaonkar	Assistant Professor	M.Sc
7.	Mr. Sreehari E	Guest Lecturer	M.Sc
8.	Mrs. Roopa M	Guest Lecturer	M.Sc
9.	Ms.Abhilasha B	Guest Lecturer	M.Sc
10.	Ms. Poojashree K M	Guest Lecturer	M.Sc

Research Guidance:

Sl.No	Name of the Guide	Name of the Research Scholar	Funding agency , Full-time/Part-time	Remarks(registered/thes issubmitted/degree awarded)
1	Dr. J. Malleshappa	Lavanya D .R	Full-time	Registered
2.	Dr. J. Malleshappa	Srinivasa P R	Part-time	Registered
3.	Dr. J. Malleshappa	Mamatha G R	Full-time	Registered
4.	Dr. J. Malleshappa	Chandana M R	Full-time	Registered

MATHEMATICS DEPARTMENT

Vision:

To inculcate Mathematical thinking in students and thereby enhance their learning abilities

Mission:

To create adequate opportunities for students to understand and appreciate the applicative potential of mathematics. To equip the students with abilities needed to handle the subject with greater levels of confidence.

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1.	Dr. Narahari N	Assistant Professor	Ph. D.
2.	Shailaja B. P	Guest Faculty Member	M. Sc.
3.	Gowtham K. J	Guest Faculty Member	M. Sc.
4.	Manohar T	Guest Faculty Member	M. Sc.
5.	Shruthi T	Guest Faculty Member	M. Sc.
6.	Shrikanth C. K	Guest Faculty Member	M. Sc.
7.	Anitha H D	Guest Faculty Member	M. Sc.
8.	Syeda Ayesha Siddiq	Guest Faculty Member	M. Sc.
9.	Veena T	Guest Faculty Member	M. Sc.
10.	Harini S	Guest Faculty Member	M. Sc.
11.	Vasudev	Guest Faculty Member	M. Sc.
12.	Navya J Singh	Guest Faculty Member	M. Sc.
13.	Rajeshwari M. S	Guest Faculty Member	M. Sc.
14.	Shreedevi G	Guest Faculty Member	M. Sc.

15.	S Syamalatha	Guest Faculty Member	M. Sc.
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Research Article Published in National and International Journals

Narahari N, General Fifth M-Zagreb Polynomials of the TUC4C8(R)[p, q] 2D-Lattice and its Derived Graphs' published in the journal 'Letters in Applied NanoBioScience', Vol. 10(1), 2021

Narahari N, Gowtham K. J, Sombor Energy of Graphs' published in the journal 'Nanosystems: Physics, Chemistry, Mathematics', Vol. 12(4), 2021

Narahari N, Magic Sigma Coloring of a Graph' published in the journal 'Computer Science Journal of Moldova', Vol. 29, no. 2(86), 2021

Narahari N, Chandan K. G, On the M-polynomial and some topological indices of the para-line graphs of the nanostructure TUC4C8(R), in the journal South East Asian J. of Mathematics and Mathematical Sciences Vol. 17(3), 2021

Narahari N, Chandan K. G, Topological indices of the subdivision graphs of the nanostructure TUC4C8(R) using M-polynomials' published in the journal 'Journal of Discrete Mathematical Sciences and Cryptography', Vol. 25 (2022), No. 1, pp. 265-282

Narahari N. and T. Manohar, Reverse Sombor Index' published in the journal 'Bulletin of the International Mathematical Virtual Institute', Vol. 12(2)(2022), pp. 267-272

Faculty Participation as Resource Persons

Dr. Narahari N has chaired a session during the Virtual International Conference on Discrete Mathematics and Combinatorics 2021 organized by Poornaprajan College & Postgraduate Centre, Udupi, Karnataka.

BOTANY DEPARTMENT

Vision: leads to biological skills, Conservation of Biodiversity, usage of medicinal plants.

: To inspire and built the next generation entrepreneur and research for the nation.

Mission: Aims at ensuring at advance Knowledge about plants and Importance of floras in day to day life.

Goals: Dissemination of knowledge, progress of the students, researchers in the field of Botany.

To popularize the benefits of Botany and encourage more utilization of flora.

Training the students to facilitates them for higher studies in botany and for competitive exams.
Develop an engaged diverse high quality student population.

Faculty Strength:

Sl. No.	Name of the faculty	Designation	Qualification
1	Dr. Shalini B R	Associate Professor	MSc, Ph.D.
2	Dr. Lakshamana	Lecturer	MSc, Ph.D.
3	Mr. Shreenivasa L G	Lecturer	MSc
4	Ms. Roopashree R	Lecturer	MSc
5	Ms. Arshitha M	Lecturer	MSc
6	Mrs. Anusha T N	Lecturer	MSc
7	Mrs. Nayana K R	Lecturer	MSc
8	Ms. Priyanka	Lecturer	MSc
9	Ms. Tanuja S P	Lecturer	MSc
10	Ms. Meghana	Lecturer	MSc

Workshops/ Special Lecture

Organized Special Lecture on the topic “Emerging Trends in Botany” on 19/01/2022

Organized Special Lecture on the topic “Significance of Seed Viability in field of Agriculture” on 18/09/2022.

Organized Special Lecture on the topic “Bio fertilizers” Conducted on 20/12/2021

Papers published in National and / International Conference proceedings

Herbal medicinal plants used for the treatment of venereal diseases in kadugolla tribes of Tumkur district, Karnataka, India IJRESM, 10(3), 1603-1612, 2022

In vivo evaluation of chemical fungicides against corynespora cassiicola causing leaf spots in Tomato. Journal of Mycopathol Res. 60(2) ,279-282, 2022

Department Extension/Co-curricular Activities

Awareness programme about the usage of locally available medicinal plants in daily life for school children.

Awareness programme about the usage of locally available medicinal plants in daily life for farmers and women's.

Department has organized science exhibition on science day.

BOS member.

Convenor for development of e-content in Botany for UG & PG.

Parents' teachers' association coordinator.

Member of Planning Board UCST.

Coordinator of Women empowerment cell.

Organized science exhibition on International Science Day Celebration.

Any other Activities

Maintenance of botanical garden with locally available medicinal plants and ornamental plants.

ZOOLOGY DEPARTMENT

Vision: To be a leading department as a centre of excellence for studying animal Sciences and to enhance the quality of education and superior services to the students.

Mission: To promote the discovery and broad communication of Knowledge of about biology of animals and to understand the animal life processes

Goals:

- To supplement the theory base with adequate on-the-field tasks by studying creatures in their natural habitats.
- To arrange for dissemination of information related to research in the discipline through periodical seminars, conferences and workshops
 - To innovate in the area of artificial cell division and DNA synthesis.

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1	Dr. Parimala B	Assistant professor	M.Sc., M.Phil., B.Ed., Ph.D.
2	H.M. Lalitha	Assistant professor	M.Sc. (Ph.D.)
3	Manasa S	Guest faculty	M.Sc. B.Ed.
4	Ramya S V	Guest faculty	M.Sc.
5	Sahana M R	Guest faculty	M.Sc. B.Ed. (TET)
6	Nikitha Yadav P N	Guest faculty	M.Sc. B.Ed.
7	Nagaveni K M	Guest faculty	M.Sc. B.Ed.,
8	Anupama R T	Guest faculty	M.Sc B.Ed
9	Asma Banu	Guest faculty	M.Sc
10	Shilpa L B	Guest faculty	M.Sc B.Ed
11	Bhavyashree S P	Guest faculty	M.Sc B.Ed
12	Anjali A	Guest faculty	M.Sc.B.Ed, (KSET)
13	Ramya K S	Guest faculty	M.Sc B.Ed
14	Varsha Vishwanatha Rajapuri	Guest faculty	M.Sc B.Ed
15	Shabnum banu	Guest faculty	M.Sc B.Ed

Orientation/Refresher Course:

Sl. No.	Name of the Faculty	Title of the Course	Nature of the Course Online/offline	Date and Year (From-To)	Organizing College/University
1	Dr. Parimala B.	Refresher Course in Interdisciplinary Refresher Course/Faculty Development Programme on "Advanced Research Methodology -2.0"	Online	From 17/06/2021 to 01/07/2021	Teaching Learning Centre, Ramanujan College, University of Delhi, PMMMNMTT
2	Dr. Parimala B.	Faculty Development Program on Multidimensional Skills for Teaching Fraternity in Higher Education Institutions	Online	From 24/08/2021 to 30/08/2021	GFGC Ankola and SGTB Khalasa, University of Delhi, PMMMNMTT
3	Dr. Parimala B.	FDP on "Making Online and Blended Learning Effective in light of NEP 2020"	Online	From 03/09/2021 to 09/09/2021	SNDT Women's University, Mumbai Teaching Learning Centre
4	Dr. H.M. Lalitha	FDP: Making online and Blended learning effective in light of NEP2020	Online	3-9-2021 to 9-9-2021.	organized by SNDT Women's University Mumbai, TLC PMMMNMTT- MOE
5	Dr. H.M. Lalitha	Refresher course / FDP on "Advanced Research Methodology 2.0" organized.	Online	17 June 2021 to 01 July 2021	Teaching Learning Centre, Ramanujan College University of Delhi

Conferences/Workshops/Seminars organized by the Department:

Sl. No.	Name of the Conference/Workshops/Seminars/Tour Special lecture/Any other activities	Date	Venue	No. of Students attended
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1	Organized Webinar on “Bharathasa Swathanthryodayada Mailigallugalu” held on 14 th July 2021	14 th July 2021	Department of Zoology	95
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Books/ Book Chapters Published (as author/co-author):

Sl. No.	Title of the book,	Title of the chapters	author's name/names (bold)	year, page No	Publisher. National/ International	ISSN/ ISBN No
1	Biodiversity Profile of India	Sole author	Dr. Parimala B. Editor	Dec-2021	International SHINEEKS Publishers, USA	ISBN 978-1-3278-967-9
2	Advances in Animal Science Volume I	Author Assessment of Physico-Chemical parameters of Honey sample of Apis dorseta from different areas of Tumakuru Taluk, Karnataka	Dr. Parimala B.	2021 Pp No. 113-119	National Bhumi Publishing, Maharastra	ISBN 979-93-91768-21-9
3	Fish diversity of Karnataka-An update	Sole author	Dr. H.M. Lalitha Editor	Dec-2021	International SHINEEKS Publishers, USA	ISBN 978-1-63278-968-6

Articles Published in National/International Journals:

Sl. No.	Author's name/names (bold), author	Title of the Article	Journal name, year (bold), Vol. No., Page No.	ISSN/ ISBN No.
1.	Parimala B, Vijaya kumar, Dinesha B. L. Sharanagouda H. Manjunath B	Characterization and application of biosynthesis of Zinc-oxide nanoparticles from Spinach leaf extract.	International journal of botany studies. 2021 Volume 6, Issue 3, pp. No. 811-816.	ISSN 2455-541X
2.	Dr. Parimala B	Ophidian Diversity in Tumkur district, Karnataka, India. International journal of pharma and bioscience.	International journal of pharma and bioscience. 2021 Volume 12, Issue 2, pp.	ISSN 2455-541X

			No. 21-26.	
3	Neha Jadav Giridhar, Venkatsppa Maruthiramaiah Vyshali, Bhavya Somalapura, Gangadharappa, Ramith Ramu, Shrisha Naik Bajpe, Parimala B , Katenahalli Rudrappa Maruthi	Anticancer and gene expression analysis of <i>Piper nigrum</i> extract on colon cancer cell lines	Bioscience, biotechnology Research communication. 2021 Volume 14 Issue 4, pp. No. 1968-1974.	ISSN: 0974-6455
4	Parimala B	Diversity of Fishes in relation to habitat of fresh water Bhimasandra Pond in Tumakuru, Karnataka, India	Journal of Hunan University (Natural Sciences) 2021 Volume 48, Issue 12, pp. No. 811-816.	ISSN: 1674-2974
5	Parimala B	Diversity and abundance of pollinator fauna in sunflower	International Journal of Entomology Research Volume 7, Issue 2, 2022, Page No. 163-166	ISSN: 2455-4758
6	Parimala B	Biodiversity of avifauna in Mydala Wetland of Tumkur, Karnataka, India	International Journal of Entomology Research Volume 7, Issue 2, 2022, Page No. 6-11	ISSN: 2455-4758
7	Dr.H.M. Lalitha, Dr. S. Ramakrishna	Diversity and seasonal variations of zooplankton community in Kunigal Tank, Tumkur District, Karnataka	Uttar Pradesh Journal of Zoology 42(24); 2021 :165-179	ISSN: 0256-971X (P)
8	Dr.H.M. Lalitha, Dr.S. Ramakrishna	Studies on the diversity of phytoplanktons and their seasonal variation in Kunigal tank, Tumkur District, Karnataka	Uttar Pradesh Journal of Zoology 42(24); 2021 , 555-570	ISSN: 0256-971X (P)

Faculty Participation as Resource Persons:

Dr. Parimala B.: Resource person: Special Talk, in Sri Taralabalu Jagaadguru Institute of Technology, Ranebennur, Haveri District. November 4th 2021.

Recognitions/Fellowships/Medals/Doctoral/PDF etc.:

Sl. No.	Faculty Name	Award	Awarding agency/Institution
1	Dr. Parimala B.	ESDA Senior Scientist Award-2021	Environment and Social Development Association (ESDA), Delhi (INDIA)
2	Dr. H. M. Lalitha	Academic Excellence Award Best professor in Zoology	VCPEM trust

Department Extension/Co-curricular Activities:

- Guided the final-year students for their projects prescribed in the syllabus.
- Conducted student Seminars.
- **NSS Activities:** Faculty members are involved in NSS activities (Weekly and camp)
- Student's participation in conferences/workshops.
- Model preparation by students.

Any other activities:

Dr. Parimala B.

Paper presentation

1. Paper presented in **World Environment Summit-2021** 1-3rd October 2021, Environment and Social Development Association (ESDA), Delhi.

Participated in Seminars/workshops/conferences/Short term courses/ Webinars

Participated in "MANOBALA" a special full day online program for teachers to foster emotional well-being of students and teaches in the context of COVID-19 Rotary Bengaluru Platinum City Rotary Tumkur, held on 5th June 2021

Participated in a National Webinar on "Human Fungal Infections with Special Reference to Mucormycosis and quot; organized by the Department of Microbiology, held on 10th June 2021 B.M.S. COLLEGE FOR WOMEN Basavanagudi, Bengaluru - 560 004

Participated in a Webinar on "Ecosystem Restoration" on the occasion of world Environment Day-2021 organized by Department of Zoology, held on 10th June 2021

Participated in international Webinar on "Current trends in impact of toxicants on biodiversity and human health " organized by Department of Zoology National College, Basavanagudi, Bengaluru 18th June 2021.

Participated in International Webinar on "Digitalization strategy for the higher education sector during COVID-19 pandemic; organized by Tumkur University, Tumkur on 18-6-2021

Participated in the one day National webinar on "Nutritional aspects and Molecular events during Covid-19 pandemic" organized by the Department of Studies in Food Technology and Food Tech Forum, Davangere University, held on 21th June 2021.

Participated in Six days Virtual National Faculty Development on "Research in India: recent Dimensions and Trends", organized by G. I. Bagewadi Arts, Science and Commerce College, Nipani, Karnataka, held from 21st June to 26th 2021

Participated in the International webinar on freshwater Faunal Diversity in India” organized by the Post Graduate and Research Department of Zoology, Raja Doraisingum government Arts College, Sivagangai, Tamilnadu, held on 26th June 2021.

Participated in one day state level Webinar on “Session 1: Marine habitat as a treasure of faunal Biodiversity, its Pollution and Management and Session 2: Genetic Engineering. organized by IQAC, Department of Zoology and Botany Government First Grade College, Hubballi, held on 24-07- 2021.

Participated in a National Level Online Workshop on “Recent Developments in Research and Methodology” organized by the Department of Zoology and IQAC Mahatma Gandhi Memorial College, Udapi on 04-08-2021.

Participated in International Faculty development Programme on NEP “A Roadway for Critical Thinking and Innovative “organized by Sahyadri Commerce and Management College, Shimoga from 26/08/2021 to 31/08/2021.

Participated in two day International virtual Conference on ‘Role and Impact of Science and Technology in the Development of India’79”(IVC-RISTDI’75) organized by the Faculty of Science, Annamalai University held on 22nd and 23rd November 2021.

Chairperson/ Member of Board of Studies, Board of Examiners/ Examination Chief Superintendent (BOE/BOS/BOAE)

BOS Member (UG), Tumkur University.

Dr. H. M. Lalitha

Paper presentation:

Paper presented on “A preliminary survey of birds in the outskirts of Belagumba village, Tumkur District, Karnataka.” in the national virtual conference on Diversity and distribution of Indian birds organized by Natural Science Association, St. Joseph College on 01-5-2021.

Participation in seminars, workshops, conferences

Participated in National Webinar on “Human Fungal Infections with Special Reference to Mucormycosis” organized by Department of Microbiology, held on 10th June 2021 B.M.S. COLLEGE FOR WOMEN Basavanagudi, Bengaluru - 560 004

Participated in national Webinar on “Recent developments in Applied Zoology” organized by Department of Zoology National college, Basavanagudi, Bengaluru - 560 004 held on 10th and 11th June 2021

Participated in international Webinar on “Current trends in impact of toxicants on biodiversity and human health ” organized by Department of Zoology National college, Basavanagudi, Bengaluru 18th June 2021.

Participated in International Webinar on “Digitalization strategy for the higher education sector during COVID-19 pandemic” organized by Tumkur University, Tumkur on 18-6-2021

Participated in Webinar on “Cutting edge technologies in Biotechnology ” organized by Department of Biotechnology, Oxford college of Engineering, Bengaluru, on 21-06-2021 and 22-6-2021

Participated in International Webinar on “Recent trends in immunostimulants application in aquaculture industry. Strategic implementation of Physical Education program during the COVID-19 pandemic” organized by Department of Zoology, Sadakathullah Appa college on 24-06-2021.

Participated in national Webinar on “Strategic implementation of Physical Education program during the COVID-19 pandemic” organized by Department of Physical education and sports Tumkur University, Tumkur on 10th and 25th June 2021

Participated in Webinar series on the topic “Effective online teaching and learning: Tools and strategies” organized by Swadeshi Vijnana Andolana- Karnataka on 26-6-2021.

Chairperson/ Member of Board of Studies, Board of Examiners/ Examination Chief Superintendent (BOE/BOS/BOAE)

Member of BOE in Zoology (UG) 2021-22, Tumkur University, Tumkur

DEPARTMENT OF BIOTECHNOLOGY

Vision: The vision of the department is to empower the students through awareness of the significance of microorganisms in health, environment, industry and general human welfare, which will enable them to contribute to the development of nation as competent Microbiologists.

Mission: The mission of the department is to be a competitive centre of excellence in fundamental microbiology by means of visionary training and innovative research

Goals:

- To establish well equipped and self-sustaining post graduate microbiology laboratories
- To establish state-of-the-art research lab through project funding
- To be recognized as center for high quality microbiology teaching by initiating new skill development programmes in collaboration with other institutes and
- To have several international collaborations with institutes and universities of repute

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1	Dr Dwarknatah V	Assistant Professor and HOD	MSc, PhD
2	Dr Poornima D	Assistant Professor	MSc, PhD
3	Dr Krishana	Assistant Professor	MSc., PhD
4	Mrs. Shambavi Singh	Guestfaculty Member	Msc with SLET

Research guidance

Sl.	Name of the	Name of the	Funding Agency,	Remarks(registered/thesis)
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No.	guide	research scholars	Full time/Part time	submitted/degree awarded)
1.	Dr Poornima D	Thoyajakshi RS Kavitha GC Geethanjali KS Vikas HR	Part Time Part Time Part Time Part Time	Registered Registered Registered Registered

Orientation /Refresher course

Sl. No.	Name of the Faculty	Course	Date and year (From-To)	Organizing College/University
	Dr Poornima D	RC	12/7/2021 to27/7/2021	UGC-HRDC, JNTU Hyderabad

Articles published in National /International journals

Thoyajakshi R S, Poornima D, Anticoagulant, fibrinogenolytic and anti-platelet aggregation activities of *Lablab purpureus* (L.) Sweet seed radicle aqueous extract. *Pla. Sci. Today*. 8(1): 89-94. ISSN 2348-1900 (online), 2021, <https://doi.org/10.14719/pst.2021.8.1.917>

Vikas H R, Poornima D, Preliminary phytochemical analysis and evaluation of cytotoxic profile of leaf and bark of *Garcinia morella* (Gaertn.) Desr. from Western Ghats. *International Journal of Botany Studies*. 6(3):716-720, 2021.

Geethanjali K S, Poornima D, Antioxidant activity of *Nothopegia racemosa* (Dalz.) ramam. *International Journal of Botany Studies*. 6(3):842-847, 2021.

Papers published in National /International Conference Proceedings:

Resource person and delivered a talk on Instruments used in Biotechnology Laboratory on 03/02/2021, Organized by Department of Zoology, University College of Science, TUT, Tumkur

DEPARTMENT OF MICROBIOLOGY

Vision: The vision of the department is to empower the students through awareness of the significance of microorganisms in health, environment, industry and general human welfare, which will enable them to contribute to the development of nation as competent Microbiologists.

Mission: The mission of the department is to be a competitive centre of excellence in fundamental microbiology by means of visionary training and innovative research

Goals:

- To establish well equipped and self-sustaining post graduate microbiology laboratories

- To establish state-of-the-art research lab through project funding
- To be recognized as center for high quality microbiology teaching by initiating new skill development programmes in collaboration with other institutes and
- To have several international collaborations with institutes and universities of repute

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1	Dr. Rashmi Hosamani	Assistant Professor and HOD	MSc, PhD
2	Mrs. Shabeena anjum K S	Assistant Professor	MSc, MEd (PhD)
3	Mrs .Shilpa K.M	Guest faculty	MSc.,B.Ed,PGD.BA
4	Vasudha .M.	Guest faculty	Msc.(PhD)
5.	Salma taj Dhurvesh	Guest faculty	Msc.,

Research guidance

Sl. No.	Name of the guide	Name of the research scholars	Funding Agency, Full time/Part time	Remarks(registered /thesis submitted/ degree awarded)
1.	Dr. Rashmi Hosamani	Sahanashree K.S	Part-time	Pursuing
2.	Dr. Rashmi Hosamani	Vaishnavi L	Part-time	Pursuing

Orientation /Refresher course

1.	Dr.Rashmi Hosamani	Online Five days FDP on “Academic writing for research”	11-10-2021 to 17-10-2021	Ramanujan College University Of Delhi
2.	Dr.Rashmi Hosamani	One-week International Lecture workshop on “Recent Advances and current trends in biological sciences”	14-02-2022 to 19-02-2022	Davangere University, Davangere.

Conferences/workshops/Seminars Organized /Attended by the Department

- Mrs. Shabeena Anjum organized Debate competition on the Occasion of Azadi ka Amrit Mahotsav held on 16th July 2021.
- Dr.Rashmi Hosamani has participated in Webinar on “Digital Pathology & Informatics &Deep learning Applications” on 17th June 2021.

- Dr.Rashmi Hosamani has participated International Webinar on “Digitalization strategy for the higher education sector during COVID-19 Pandemic”organized by Tumkur University on 18th June 2021.
- Dr.Rashmi Hosamani has participated I One day National webinar on “Nutritional aspects and Molecular events during Covid-19 Pandemic” organized by Davangere University, held on 21st June 2021.
- Dr. Rashmi Hosamani has participated in International webinar series on “Research and Technoloical advancements in Bioinformatics organized bt CEHTI and JUIT, HP, India on 9th October 2021.
- Dr. Rashmi Hosamani has participated in One-day National workshop on “Submission of Research proposals: Strategies and Techniques” organized by Tumkur University on 26th November 2021.
- Dr. Rashmi Hosamani has participated in Three days National Webinar on “Current Rapid growth on Vaccine manufacturing and regulations in India“ organized by Shri Vishnu College of Pharmacy from 2nd to 4th March,2022.
- Dr. Rashmi Hosamani has participated in Two days National conference (Online) on Advances and Innovations in Natural Product Research” organized by B.Pharmacy college Rampura on 18th and 19th February 2022.

Articles published in National /International journals

Dr. Rashmi Hosamani has published paper on “Bacterial analysis of selected street food Sauces from Tumkur regions” at International Multidisciplinary Quarterly Research Journal on January 2022.

Papers published in National /International Conference Proceedings

Dr. Rashmi Hosamani has presented poster at International E-Conference on“Recent Research and Innovations in Life Science 2022: Neutraceuticals in Healthy Aging” organized by MMK & SDM MAHILA MAHAVIDYALAYA, Mysore held on 3rd and 4th February 2022.

Any other Activities

- World Environmental day celebrated on June 5th
- AIDS day celebrated on December 1st
- Global hand washing day celebrated on October 16th to create awareness among people.
- Seminars and quiz conducted in Department to improve technical skills.

COMPUTER SCIENCE DEPARTMENT

(Computer Science Course; Bachelor of Computer Applications, Bachelor of Vocational Course)

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1.	Dr. Mukundappa B.L	Associate Professor	M. Sc.(chem.), M. Sc.(cs.) M.phil, Ph. D.
2.	Dr.Ramani R	Assistant Professor	B.E, Mtech, Ph.D
3.	Dr. Kusuma Kumari B.M	Assistant Professor	MCA, M.phil,Ph. D
4.	Sowmya. B	Guest Faculty Member	M.tech
5.	Suma.N	Guest Faculty Member	MSc , KSET
6.	Shashikala M	Guest Faculty Member	Mtech
7.	Vidya Tammineni	Guest Faculty Member	Mtech
8.	Abhishek Gowda	Guest Faculty Member	MCA
9.	Sahana Raj	Guest Faculty Member	M.tech
10.	Yashaswini	Guest Faculty Member	M.tech
11.	Spoorthi	Guest Faculty Member	MCA
12.	Harshitha. E	Guest Faculty Member	MCA
13.	Kanya Kumari B	Guest Faculty Member	MCA
14.	Supritha MK	Guest Faculty Member	MCA
15.	Asma Banu	Guest Faculty Member	MCA
16.	Dharuni	Guest Faculty Member	MCA
17.	Prathibha Kalebhag	Guest Faculty Member	MCA
18.	Mahesh MK	Guest Faculty Member	MCA
19.	Arun	Guest Faculty Member	MCA
20.	Deepak	Guest Faculty Member	MCA

Student Strength

	Intake	Admitted
BSc	120	79
BCA	90	80
BVOC	50	23
Total	260	182
II Year BSc /BCA/BVOC		
	Intake	Admitted
BSc	120	105
BCA	90	68
BVOC	50	12
Total	260	185
III Year BSc /BCA/BVOC		
	Intake	Admitted
BSc	90	87
BCA	90	59
BVOC	50	18

Total	230	164
Grand Total	750	531

Result Analysis

	COURSE	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
Appeared	BCA	80	80	68	68	59	59
	BVOC	23	22	12	12	18	18
	BSC	79	79	105	105	87	87
I CLASS	BCA	74	75	62	62	55	55
	BVOC	19	18	09	09	15	15
	BSC	74	73	99	99	84	84
II CLASS	BCA	04	03	04	04	02	03
	BVOC	03	02	02	02	02	02
	BSC	03	04	04	04	02	02
PASS CLASS	BCA	02	02	02	02	02	01
	BVOC	01	02	01	01	01	01
	BSC	02	02	02	02	01	01
TOTAL %	BCA	85%	88%	91%	88%	83%	95%
	BVOC	87%	82%	75%	84%	78%	89%
	BSC	89%	88%	92%	90%	92%	93%

Conferences/Workshops/Seminars Organized

Organised hands on training on “**Website development using HTML, CSS, Java script**” workshop on 28/07/2022 at University College of Science, Tumkur University, Tumakuru.

Organised Industrial Visit for final year BCA & all semester B.Voc students at **Aeramic Aerospace (India) Pvt Ltd.**, on 26-07-2022 by Department of Computer Science, University College of Science, Tumkur University, Tumakuru.

Organised National Science Day Celebration Lecture Series on “Integrated Approach in Science & Technology for Sustainable Future” & Science Exhibition held on 16th March 2022 organized by sub-regional science center, Tumkur University, Tumakuru.

Organised Industrial Visit for final year MCA students at Blue line computers , Mangalore on 29/07/2022 by Department of Master of Computer Applications, Tumkur University.

Articles Published in National/International Journals

Dr. Ramani R, Analyng cyber attacks in internet of health things using machine learning, International Journal on Soft computing (Springer and Scopus Indexed), 2022 (Accepted).

Dr. Ramani R, Internet of medical things based smart healthcare system with integrated cyber security features, International Journal on Soft computing (Springer and Scopus Indexed), 2022 (Accepted).

Department Extension/Co-curricular Activities:

Dr. Ramani R has worked as the Convenor for **Women Empowerment Cell** and organized various events for lady faculty as well as the girl students and prizes were distributed.

Dr. Ramani R has worked as the Co-ordinator for minority cell and conducted meetings on the issues of minority students.

Dr. Ramani R has worked as nodal officer in UUCMS.

Dr. Ramani R has been Vidya First Grade College governing council member.

Dr. Ramani R has been BOE-Chair person for UG Computer Science in Tumkur University.

Dr. Ramani R has been BOE-member for UG-BSc Computer Science in Tumkur University.

Dr. Ramani R has been Doctoral committee member in Tumkur University.

Dr. Ramani R has been member of Research Review committee at Tumkur University.

Dr. Ramani R has been NSS, NCC & Scouts & Guides coordinator at Tumkur University.

Dr. Ramani R has been member of BOAE for board of valuation committee at Tumkur University.

Dr. B L Mukundappa has been member of BOAE for board of valuation committee at Tumkur University.

Dr. Kusuma Kumari B M has been member of BOAE for board of valuation committee at Tumkur University.

Dr. Kusuma Kumari B M has been member of Academic-Industry coordination committee at Tumkur University.

Dr. Kusuma Kumari B M has been selected as examination panel member at Sri Siddartha Institute of Technology, Tumkur.

Dr. B L Mukundappa has been Doctoral committee member at Tumkur University.

Smt. Vidya Tammineni has been registered for Ph.d in the academic year 2021-22 at Sri Siddartha Institute of Technology, Tumkur.

Sports Activities:

Students of I BSc Pooja M and Veda Murthy have participated inter collegiate Weight lifting competitions and have won prizes.

Any other Activities

Students actively participate in Science exhibitions, presented papers in National conferences and also involved in social services like raising funds for flood relief victims.

DEPARTMENT OF ELECTRONICS

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1	D. Manjunatha	Assistant Professor	MSc., (PhD)
2	Dr. Shwetha D	Assistant Professor	MSc, PhD
3	Dr. Gireesha B	Guest Lecturer	M.Sc, Ph.D

KANNADA DEPARTMENT

Department: Faculty Strength

Sl. No.	Name	Designation	Qualification
1	Dr. Venkatareddy Ramareddy	Assistant Professor	MA, M.Phil, Ph.D
2	Dr. Nagabhushan	Associate Professor	M.A., Ph.D
3	Dr. Shipadda Tammaiah Bhat	Assistant Professor	MA, Ph.D
4	Dr. Nataraju J R	Guest Lecturer	M.A., M.Ed, Ph.D
5	Akshatha K	Guest Lecturer	M.A.
6	Geetha S	Guest Lecturer	M.A.
7	Dr. Aswatha K	Guest Lecturer	M.A., M.Ed, M.Phil Ph.D

DEPARTMENT OF ENGLISH

Faculty Strength:

Sl. No.	Name	Designation	Qualification
1	Dr. Bharat Shilpi	Assistant Professor	MA, Phd
2	Dr. Jyothi	Assistant Professor	MA, M.Phil, PhD, PGDHRM, PDMH
3	Ms. Kavitha R	Faculty	MA, PhD
4	Ms. Parinitha P	Faculty	MA, NET
5	Dr. Priyanka M G	Faculty	MA, PhD
6	Mr. Nawaz Ahmed M	Faculty	MA, KSET
7	Mr. Ramu H	Faculty	MA, KSET
8	Mr. Chithaiah T	Faculty	MA, KSET
9	Ms. Chandini	Faculty	MA, B.ed

Faculty Participation as Resource Persons

Dr. Jyothi

Sl. No.	Title of Lecture/Academic Session/Speech	Title of Conference / Seminar etc.	Organizer
1	"IV Sem English CBCS Syllabus-Pedagogical Perspectives"	"IV Sem English CBCS Syllabus-Pedagogical Perspectives"	Tumkur University English Teachers' Forum Tumakuru
2	Literary Landscape	Indian English Literature	GFGC, Tumakuru

Articles Published in National/International Journals

Dr Priyanka M G

Sl. No.	Title, Journal with Volume, Year and Page nos.	ISSN/ ISBN No
1	The Nexus of Life in Modern Poetry, the Need, and its Expression IJELS-2021, 6(5)	ISSN: 2456-7620
2	Exciting New Technologies for a Green Technology IJELS-2021, 6(5)	ISSN: 2456-7620
3	Gender issues in literature: Especially in Kannada Language. Impact factor 7.265, Year - 2022	ISSN-2230-9578
4	Recent Trends in English Literature, Impact factor 7.265. Year - 2022	ISSN-2230-9578
5	Smashing Patriarchy: Women writers in Indian Literature. Impact factor 7.265, Year - 2022	ISSN-2230-9578

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS

Vision : To have Physical education and sports science as curricular subject for all courses which every one would lead a healthy life.

Mission: To improve the “well being” of the society through Physical education & sports activities.

Goals: Through physical education & sports attain the goal for overall development

The Department of Physical Education and Sports conducted inter class selections participation in Inter-collegiate sports activities, conducted various Inter-collegiate sports activities, Sports coaching camps and sent teams for Inter-University competitions for the Academic year.

Details of our college students participated in south zone/All India Inter University games

S N	STUDENT NAME	EVENT	ORGANIZING UNIVERSITY	DATE OF TOURNAMENT
2022-23				
1	VARUN Y C	KABADDI(S/Z)	BANGALORE CITY UNI	07/12/2022 To 10/12/2022
2	ASHA A N	KABADDI(S/Z)	AMET UNIVERSITY CHENNAI	21/12/2022 To 24/12/2002
3	HARSHITHA H	KABADDI(S/Z)	AMET UNIVERSITY CHENNAI	21/12/2022 To 24/12/2002
4	TEJASWINI C S	KABADDI(S/Z)	AMET UNIVERSITY CHENNAI	21/12/2022 To 24/12/2002
5	TEJASWINI C	CHESS	REVA UNIVERSITY BNG	15/12/2022 To 17/12/2022
6	NAVYASHREE	CHESS	REVA UNIVERSITY BNG	15/12/2022 To 17/12/2022
7	MURUGESHA BASAVARAJA DEVAEWDDI	CHESS	REVA UNIVERSITY BNG	15/12/2022 To 17/12/2022
8	MALLU VENUPRIYA	CHESS	REVA UNIVERSITY BNG	15/12/2022 To 17/12/2022
9	MOHAMMED JASEEL.K K	FOOT BALL(S/Z)	UNIVERSITY OF CALICUT KERALA	23/12/2022 To 02/01/2023

10	SAYYID SALAHUDHEEN	FOOT BALL(S/Z)	UNIVERSITY OF CALICUT KERALA	23/12/2022 To 02/01/2023
11	ROHITH H	YOGA	KIIT,BHUBANESHWAR ODISSA	26/12/2022 To 29/12/2022
12	KUMARA MAHANTESH YANKCHI	YOGA	KIIT,BHUBANESHWAR ODISSA	26/12/2022 To 29/12/2022
13	THANUSHREE R	YOGA	KIIT,BHUBANESHWAR ODISSA	26/12/2022 To 29/12/2022
14	RAKSHITHA B	YOGA	KIIT,BHUBANESHWAR ODISSA	26/12/2022 To 29/12/2022
15	ARPITHA V	YOGA	KIIT,BHUBANESHWAR ODISSA	26/12/2022 To 29/12/2022
16	NAVYA	BALL BADMINTON	B S ABDUR REHMAN CREST UNI	27/02/2023 To 30/01/2023
17	MANUSHREE T D	BALL BADMINTON	B S ABDUR REHMAN CREST UNI	27/02/2023 To 30/01/2023
18	KARTHIK	KHO KHO	JNTU KAKINADA .AP	09/01/2023 To 12/01/2023
19	DEEPIKA G	KHO KHO	JNTU KAKINADA .AP	09/01/2023 To 12/01/2023
20	DARSHAN K A	WRESTLING	SHIVAJUI UNI, KHOLHAPUR	22/01/2023 To 24/01/2023
21	DAYANAND B R	BALL BADMINTON	MANGALORE UNIVERSITY	13/01/2023 To 17/01/2023
22	GAGAN M G	HAND BALL	PERIYAR UNIV.TN	04/02/2023 TO 08/02/2023
23	SIDDESHWAR B	HAND BALL	PERIYAR UNIV.TN	04/02/2023 TO 08/02/2023
24	POOJA M	HAND BALL	MGU, KOTTAYAM	15/02/2023 TO 19/02/2023
25	BINDUSHREE D	HAND BALL	MGU, KOTTAYAM	15/02/2023 TO 19/02/2023
26	GAGANA V D	HAND BALL	MGU, KOTTAYAM	15/02/2023 TO 19/02/2023
27	DARSHINI K S	HAND BALL	MGU, KOTTAYAM	15/02/2023 TO 19/02/2023
28	HEMANTH KUMAR K N	CRICKET	REVA UNIVERSITY ,BANGALORE REVA	20/02/2023 TO 02/03/2023

Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants		
Yoga (m & w)	Inter national Yoga day	338	222	560
Hand Ball (m & w)	Inter college	12	10	22
Kho Kho (m & w)	Inter college	12	12	24
Volley Ball (m & w)	Inter college	12	10	22
Throw Ball (w)	Inter college	-	11	11
Ball Badminton (m& w)	Inter college	11	11	22
Kabaddi (m & w)	Inter college	12	10	22
Yog (m & w)	Inter college	06	06	12
Chess (m& w)	Inter college	06	06	12
Athletics (m& w)	Inter college	07	06	13
Foot Ball (m)	Inter college	12	-	12
Cross Country (m & w)	Inter college	06	06	12
Badminton (m &w)	Inter college	03	05	08
Annual Sports Meet				
Kabaddi (m & w)	Inter class	72	61	133
Kho Kho (m& w)	Inter class	67	79	146

Volley Ball (m & w)	Inter class	51	34	85
Throw Ball (w)	Inter class	-	73	73
Ball Badminton (m& w)	Inter class	63	48	111
Badminton (m& w)	Inter class	31	50	81
Carom (m & w)	Inter class	115	60	175

Details of our college students participated in south zone/All India Inter University games

Development of sports	Sl.No.	Student Name	Event	and maintenance facilities
	1	GAGANA V.D	HANDBALL (W)	
	2	POOJA M	HANDBALL(W)	
	3	SUMAN KUMAR HIREMATH	FOOT BALL(M)	
	4	VAISHNAVI.V	WEIGHT LIFTING (W)	
	5	VARUN Y.C	KABADDI(M)	

Sl.No.	Name of facility	Remarks
1	Track & Field	Maintained
2	Tennis Court	Maintained
3	Indigenous Games Courts	Maintained
4	Indoor Hall	Maintained
5	Shuttle Badminton court	Maintained
6	Multi Gym	Maintained

Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	Inter University S/Z (National)	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2021-22	---	HANDBALL (W)	Representation	---	I BSC	GAGANA.V.D
	---	HANDBALL(W)	Representation	---	I BSC	POOJA.M
	---	FOOT BALL(M)	Representation	---	II BSC	SUMAN KUMAR HIREMATH
	---	WEIGHT LIFTING (W)	Representation	---	I BSC	VAISHNAVI.V
	---	KABADDI(M)	Representation	---	II BSC	VARUN.Y.C

1/4 COY NCC ANNUAL REPORT

Aims and objectives:

- To develop qualities, character, courage comradeship, discipline, leadership, secular outlook, spirit of adventure, sportsmanship and the ideal of selfless service among the youth to make them useful citizens.
- To create, a human resource organized, trained and motivated youths, to provide leadership in all walks of his life, including in armed forces and always to available to services of the Nation.

Student Admission Details

Total No. Seats	Total No. of students admitted
108	Boys-69; Girls-39

Examination results

Total No. students appeared	Total No. students passed
For B certificate Exam-40	Results awaited
For C certificate exam-25	Results awaited

Details of students participated in various camps/activities

Sl. No	No. of cadets participated	Camp details
1	EBSB online-01	Ek Bharath- Shrestha
2	Pre RD selection camp-03	Bangalore
3	Rock Climbing Training Camp-01	Gwalior, Madhya Pradesh
4	Shivaji Trekking Camp-03	Kohlapur, Maharashtra
5	NCC Ex Participants Association of India Training-02	Tumkur
6	Zonal Shooting trials Pre IDSC-01	Bangalore
7	Swacch Bharath Abhiyaan-Tumkur	50 members
8	Combined Annual Training Camp-65	Tumkur

Others: The institution has offered NCC as an open elective under the Tumkur University. 34 students have opted the open elective in NCC.