

Department of Biochemistry Hearty Welcome to the NAAC PEER Team



December 20, 2023







05

Students Achievements

06 Alumni

10

07

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Staff Achievements

09

Department Facilities

Best Practices

Future Plan



04

Students' Centric Methods

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Extension Activities

Content

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Department Profile	Faculty Details	Curriculum En
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Extension Activities

Department Profile

About the Department

- Course Offered
 - B.Sc. & M.Sc. Biochemistry
- Programs Taught Core Papers & Elective Papers

to

B.Sc. Microbiology

Uniqueness of the Department

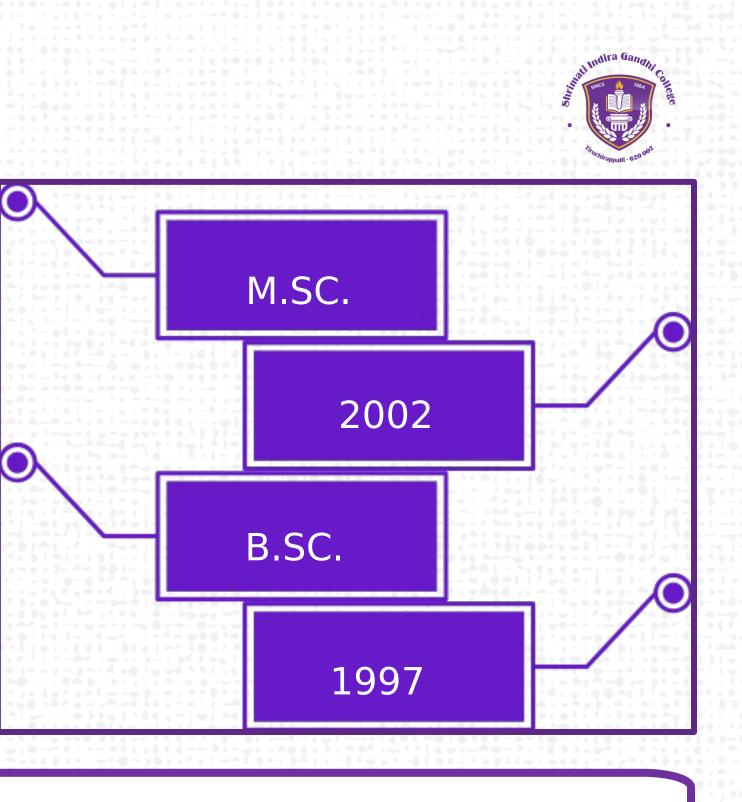
Drganizing Health Awareness Programmes Millet Exhibitions

Internships in CLRI, CECRI, ICMR

Green Practice - biofertilzer, herbal Garden and Seed ball







Funds from ICSSR, RGNIYD, TNSCST



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Extension Activities

Faculty Details Faculty Profile

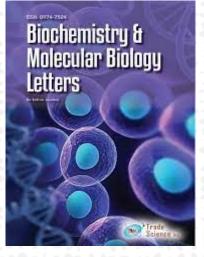
S.N o	Name	Area of Specialization	Journals	Books & Book Chapters	Patent	H index/ I10 Index	Citatio n Index
 1	Dr.T.Karpagam, Head	Phytomedicine	35	07	1	11/11	375
 2	Ms.P.Anitha	Phytomedicine	08	01	1	4	25
3	Dr.A.Shanmugapri ya	Clinical Biochemistry	25	03	1	4/2	85
 4	Dr.B.Varalakshmi	Phytomedicine	36	08	2	10/10	349
5	Ms.S.Gomathi	Phytomedicine	18	01	1	5/3	84
6	Dr.V.Suganya	Cancer Biology	32	04	2	7/3	316
7	Dr.T.Abarna	Hepatoprotective	15	02	1	2/0	11
8	Dr.R.Manikandan	Cancer Biology	27	07	2	10/10	308



Faculty Details

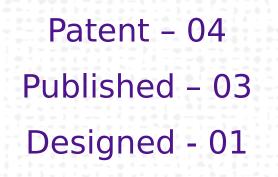
Overall Publications





Book Chapters - 06









Startup – 01





5: h-index in Scopus86: Citation Index in Scopus

Faculty Details

Board of Studies

S.No	Name of the Faculty	BoS Effective from
1	Dr.J.Radhika	01.10.2021
2	Dr.B.Varalakshmi	01.10.2021

Chairman

S.No	Name of the Faculty	Description
1	Ms.P.Anitha	Chairman, Question pap Setting in the Departme of Biochemistry, Bharathi University

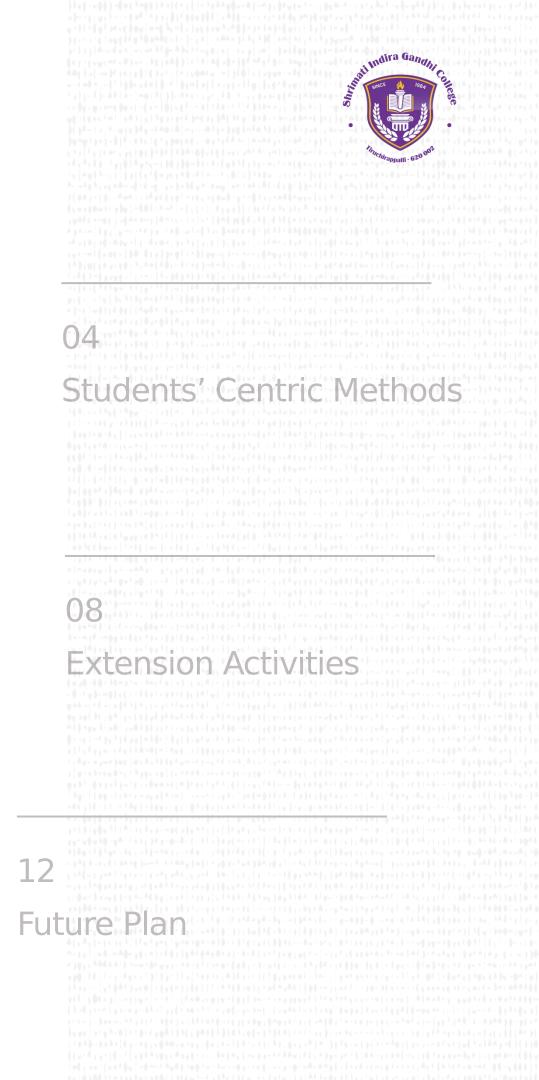


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International workshop on "Biochemical and **Bioinformatics Techniques**" - 05.09.2017





Exhibition Conducted

Herbarium on medicinal plants

Herbs and Soups for Healthy lifestyle



Herbarium on Medicinal plants 19.10.2019



Biochem world 01.03.2021 & 02.03.2021

□ Biochem World – role of

phytocomponents

Seedling Day – Seed Ball Preparation



Herbs and soups for Healthy lifestyle 22.06.2019



Seedling Day – Seed Ball Preparation 27 07 2019

Exhibition Conducted

□ Interdepartmental Millet Expo 2017

□ Interdepartmental Millet Expo 2019

□ National Science Day – Science

Exhibition

Inter Departmental Exhibition "Millets Expo 2019" on

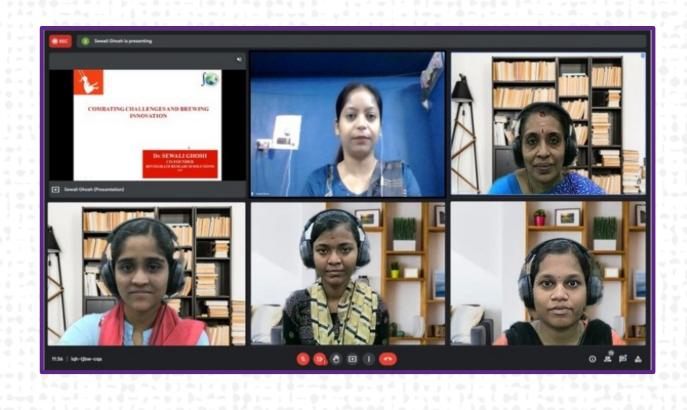


Inter – Departmental Exhibition -National Science Day -"**Millets**" 26.08.2017 Science Exhibition 03.03.2022



Webinars Conducted





"Alumni Spotlight series" – Medical coding for the Millennium " on 28.07.2021





"Women in Leadership Series" - Combating Challenges and Brewing Innovation on 22.12.2021

Distinguished Speakers



Dr.Kavitha Manivannan Genetic Analyst, Tharb Camel Hospital, Qatar



Dr. Sivanesan Dhandayuthapani, Deputy Dean Research, Santhosh Deemed to be University, Delhi



Dr. Balaji Krishnamachary, Post-Doctoral Fellow, Department of Anesthesiology, Center for shock, Trauma and Anesthesiology Research (STAR), University of Maryland, USA









Dr. R. Srinivasan, Member Secretary, TNSCST, Chennai

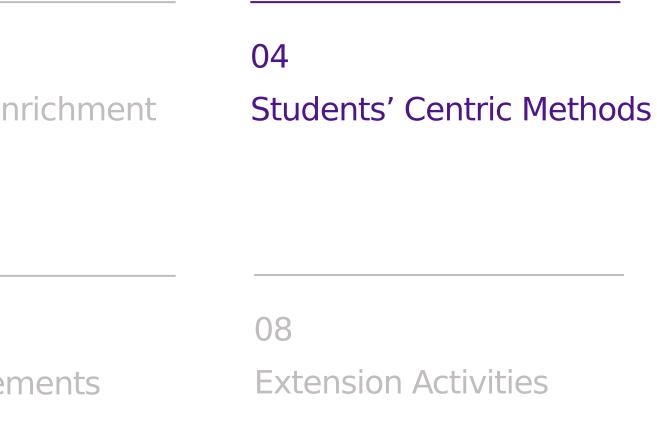
Dr. Loganathan Veeramuthu, Research Assistant Professor, Institute of Organic & Polymer Materials, Research & Development Center of Smart Textile Technology, National Taipei University of Technology, Taiwan

Dr. Balasubramanian Balamuralikrishnan, Professor & Researcher, Department of Food Science and Biotechnology, South Korea



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Students' Centric Methods

Experiential Learning









Workshop on Production of Biofertilizer: Panchagavya, and







Visit to Pollution free Environment



Students' Centric Methods Experiential Learning

Potato Research Institute and Pasteur Research Institute of India









Students' Centric Methods Participative Learning



Students' Buzz Programme on "Secret of Life"



Summer Internship programme at Pasteur Institute at Coonoor



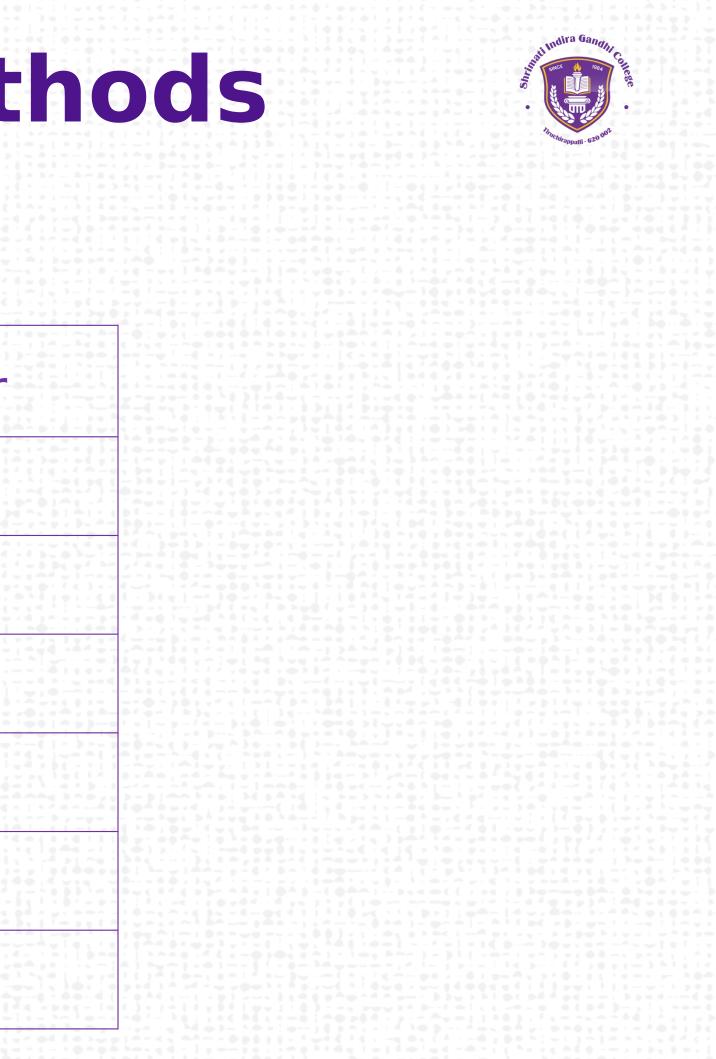


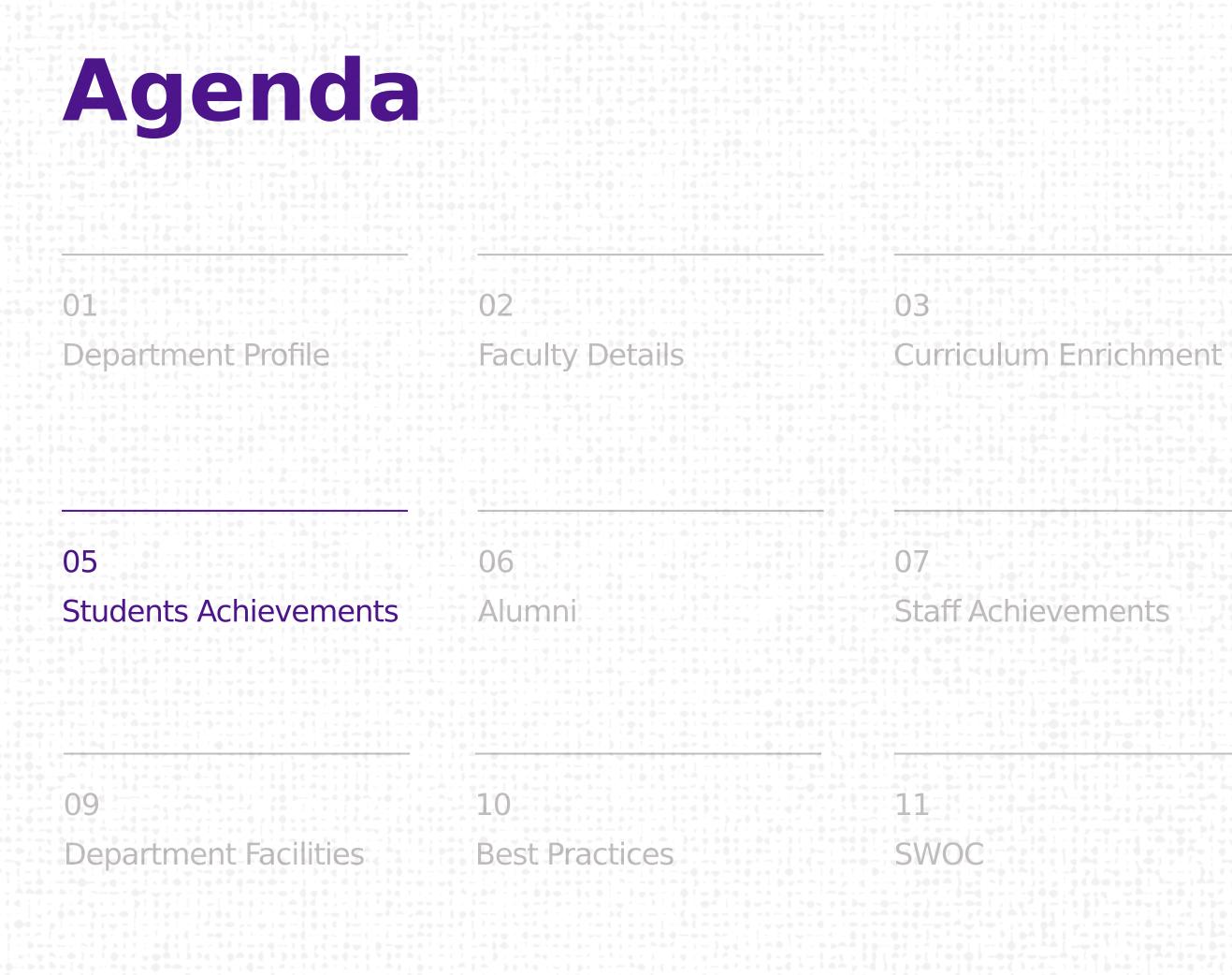
Peer Learning

Students' Centric Methods

Problem Solving Methodology Projects - Mini and Major

	Year	Number
2	017-2018	45
2	018-2019	25
2	019-2020	20
2	020-2021	11
2	021-2022	23
	Total	124







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Extension Activities

Future Plan

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Rank Holders

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Year	UG	PG
2017- 2018	3	1
2018- 2019	4	-1
2019- 2020	4	4
2020- 2021	2	2
2021- 2022	5	9
Total	18	17
Grand Total	₃₅ P. Abir	

Bharathidasan University Gold Medalist



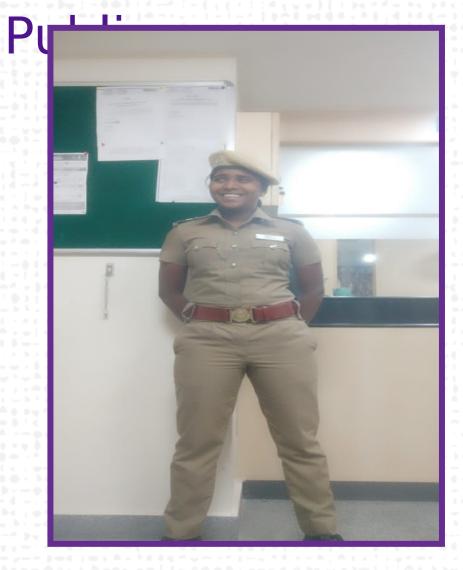


ருச்சி இந்திராகாந்தி மகளிர் கல்லூரி ஆண்டு விழாவில் பல்கலை அளவில்சிறப்பிடம் பிடித்த மாணவி அபிராமிக்கு கல்லூரி செயலாளர் மீனா விருது வழங்கினார் அருகில், தொலைக்காட்சி ஒருங்கிணைப்பாளர் ரங்கராஜ் பாண்டே, கல்லூர் தலைமை செயல் அதிகாரி சந்திரசேகரன், இயக்குனர் அபர்ணா உட்பட பலர்.



mi, B.Sc. Biochemistry (2019-2022) secured University Gold medal after URE examination

Tamil Nadu Uniformed Service Recruitment Board – TNUSRB – Serving



R.Rukku Grade II Constable police



K.Gayathri

Grade II Constable police





R.Radha

Grade II Traffic Constable police

Published Book Chapters

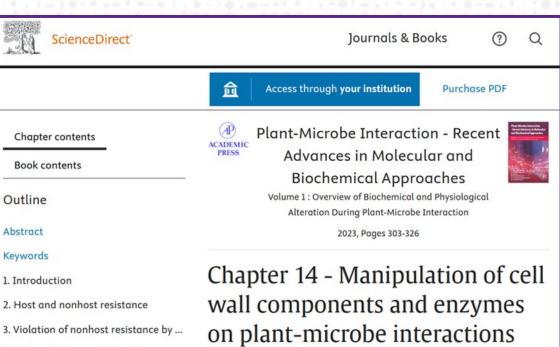
Balamuralikrishnan Balasubramanian Wen-Chao Liu Govindharajan Sattanathan *Editors*

Aquaculture Science and Engineering

Deringer

M. Abinaya, V. Saradha Sri, R. Sridevi.
 II M.Sc. Biochemistry. "Bacterial fish disease and treatment". Aquaculture Science and Engineering 565, Springer publications, page number- 518.
 II M.Sc. Biochemistry. "Manipulation of cell wall components and enzymes on plant-microbe interactions" Recent Advances in Molecular and Biochemical Approaches, Academic Press, 2023, Pages 303-326





Plant and microbe interaction

5. Outline on experimental analysis ...

. Conclusions

<u>B. Varalakshmi</u>^a, <u>V. Suganya</u>^a, <u>A. Shanmugapriya</u>^a, <u>T. Karpagam</u>^a, <u>S. Jannathul Firdous</u>^b, <u>R. Manikandan</u>^a, <u>R. Sridevi</u>^a, <u>V. Saradhasri</u>^a, <u>M. Abinaya</u>^a

M. Abinaya, V. Saradha Sri, R. Sridevi.

Published Article in UGC indexed Journals



N.Abirami, K.Parkavi , W. Esther Rani, S.Kaviya Lakshmi.

Evaluation of antihepatotoxic effect of *Avicennia marina* against alcohol-induced liver injury. International Journal of Pharmaceutics and Drug Analysis. 2018; 6 (2): 225 – 231. ISSN: 2348-8948; UGC: 44824

A.Abinaya, S.Ka M.Jeyapriya.

A Combinative Evaluation Of Antioxidant Potential In *Tridax* procumbens Boerhavia diffusa. International Journal of Pharmaceutics and Drug Analysis. 2018;6 (2): 197 – 202. ISSN: 2348-8948; UGC: 44824.



S.Kamali, G.Praveena, C.Jeyachitra,

Publications

<u>∧</u> R	JPT R	Research Jo	ournal of F	Pharma	acy an	d Techno	logy	ISSN 0974-360X (Online) 0974-3618 (Print)
HOME~	PAST ISSUES	EDITORIAL BOARD	FOR AUTHORS ~	MORE ~	NEWS	search	Q	Submit Article
		al action o tract and F p						Contract of the second
Email(s): Jar	Somathi S, Jannathul nnathul.firdous@unik 711/0974-360X.202		Varalakshmi B, Karpaga	am T, Bharathi V	/, Anitha P, Mah	alakshmi P	Indexed / Amtrocher tild: Indian Science Altr CAS: Chemical Abshor CAB: Abshor Geogle Scholar Scopos	h Sandice (CAS)
Record Course and Address		Firdous2*, Shanmugapriya hrimati Indira Gandhi Colle			rathi V1, Anitha	a P1, Mahalakshmi P1	Research Journal	of Pharmacy and Technology

Mahalakshmi P Antibacterial action of *Pedilanthus tithymaloides* leaves extract and FTIR Phytochemical Fingerprinting, Research Journal of Pharmacy and Technology (RJPT),14(4): April 2021.ISSN-0974-360X (Online),0974-3618 (Print)

ISSN NO. 2320-7418
S. PHARMACEUTICAL PL
A REAL OF MEDIC
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nikandan R ¹ , Abarna T ¹ ,

Abirami N

Nano phytoremediation for textile dye degradation using *Abutilon indicum* silver nanoparticles: photo catalytic activities, Journal of medical pharmaceutical and allied sciences, Volume 10 - Issue 4, 1939, Nov - Dec 2021, Page - 3960-3964. ISSN NO. 2320-7418. Scopus and UGC care II.



Placement Details



Medical Coding



Laboratory Technology







K.Janani

Medical Coder

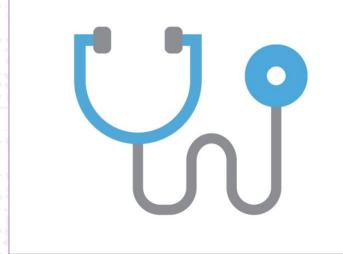
Medical Coder

R.Sridevi

R.Kavya

Clinical Analyst





Clinical Analyst



K. Nandhini

Research Assistant

Innovation of Students

Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India



	Application Details
APPLICATION NUMBER	202341014517
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/03/2023
APPLICANT NAME	 Dr.B.Varalakshmi Ms.N.Vijayalakshmi Ms. K.Chitra devi Dr.V.Suganya Dr.S.Rethinavalli Dr. N.Hemalatha Ms. C.Mamtha Ms. V.Sathyapriya Ms. R.Ramya
TITLE OF INVENTION	PRODUCTION OF ECO-FRIENDLY BIO PLASTIC CUPS FROM AGRO WASTES
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	iprpatent2022@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	17/03/2023

Patent by

- 1. C.Mamtha
- 2. V.Sathyapriya
- 3. R.Ramya

Mentor Dr.B.Varalakshmi









Production of Eco-friendly bioplastic cups from banana peel and banana stem fibre



Students participated in Startup TN Girls Ideathon Competition and won cash award of Rs 12,500/- at Zonal Level Patent No: 202341014517

Agripreneur

Entrepreneurship Related Programme

Workshop on Production of Vermiwash at College Campus -21.03.2018 & 14.07.2018





Programme Outcome

Ms. **A. Sowmiya** B.Sc Biochemistry 2017 - 2020



Vermiwash Unit at Puthanampatti After applying Vermiwash in the field developed by Ms. A. Sowmiya



Vermiwash Unit



At Lalgudi Panchayat 16.10.2018





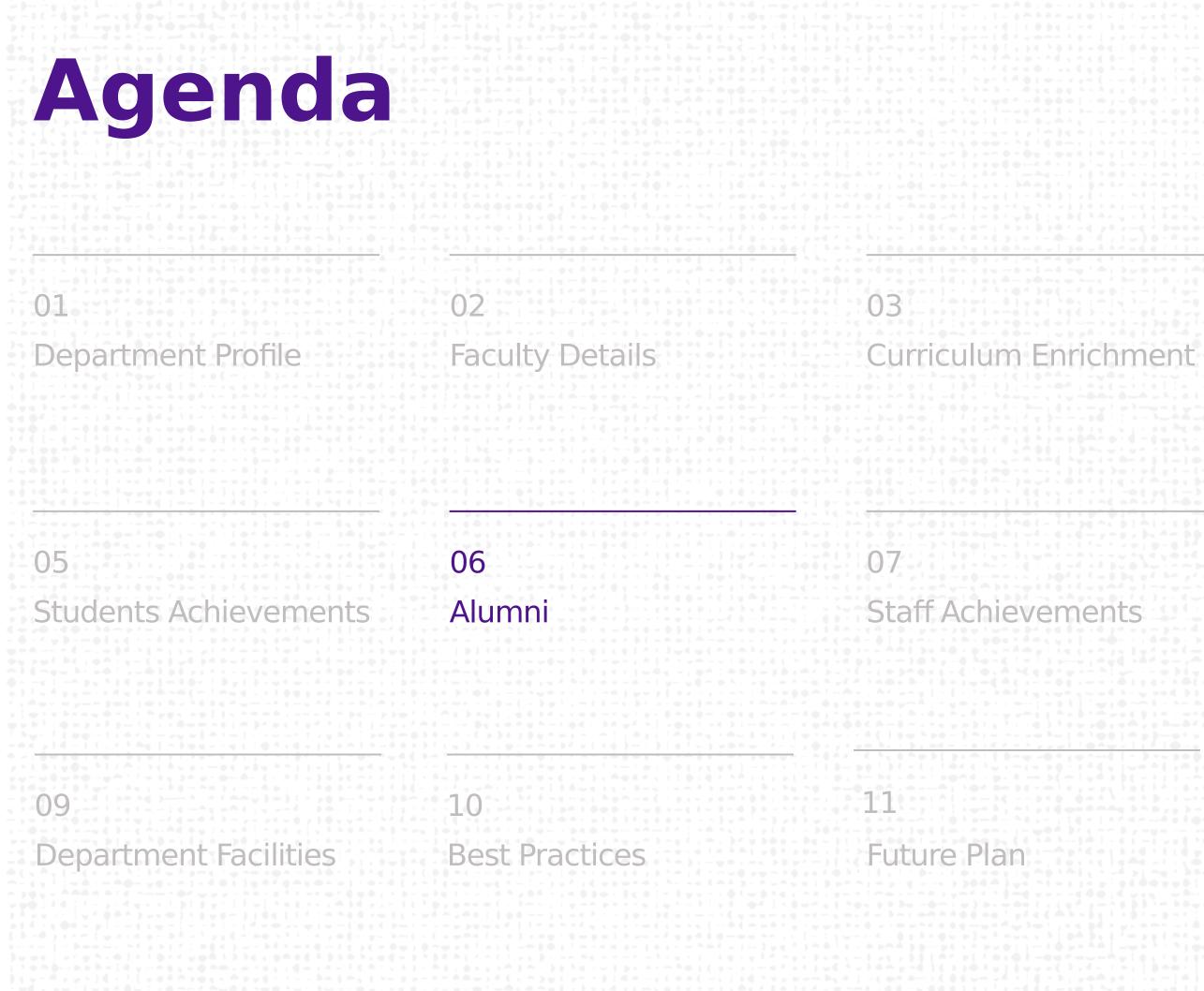




Before applying Vermiwash in the field









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08 Extension Activities

Alumni



Dr.S.Jannathul firdous Assistant Professor, Faculty of Medicine, University of Kuala Lumpur, Malaysia B.Sc. Biochemistry (1997 -2000)



S.Nivedhini Medical Coder, Logix Health, Trichy B.Sc. Biochemistry (2011 -2014)



V.Nithya Assistant Professor, Department of Animal Health and Management, Alagappa University, Karaikudi B.Sc. & M.Sc. Biochemistry (1999 -2002) & (2002 -2004)



P.Divya Advocate, Virudhachalam B.Sc. Biochemistry (2014 -2017)



D.Saranya Process Specialist, CTS, Chennai M.Sc. Biochemistry (2008 -2010)



C.Anitha Medical Document Reviewer, Rapid Care, Chennai M.Sc. Biochemistry (2011 -2014) & (2014 -2016)



R.Priyanka Dietician, Kolors, Trichy B.Sc. Biochemistry (2012 -2015)



L.Hemavathi Denial Analyst, Medical billing, Chennai B.Sc. Biochemistry (2015 -2018)





A.Dhivya Priya Medical Document Reviewer, Rapid Care, Chennai M.Sc. Biochemistry (2011 -2014) & (2014 -2016)



J.Jeya Priya Medical coder, Visionary RCM infotech Pvt Ltd, Chennai B.Sc. & M.Sc. Biochemistry (2012 -2015) & (2015 -2017)

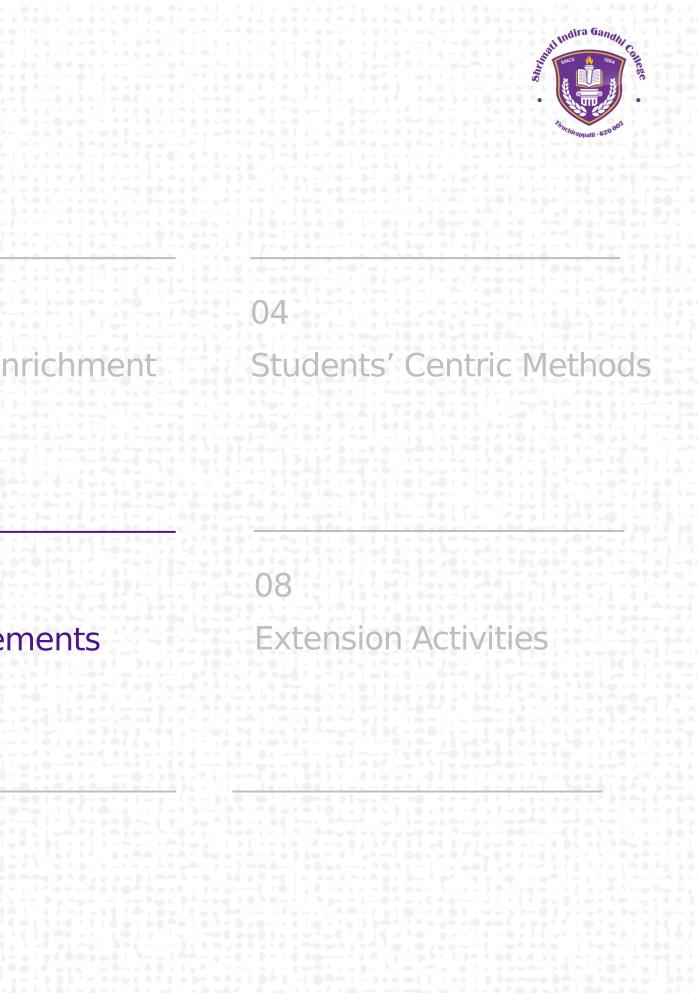


Dr.B.Manimegaalai Assistant Professor, Department of Biochemsitry, STET college, Pattukottai B.Sc. Biochemistry (2005 -2008)



K.Parkavi Assistant Professor, Srinivasan Institute of medical Sciences, Perambalu B.Sc. & M.Sc. Biochemistry (2014 -2017) & (2017 -2019)

Agenda 01 02 03 Curriculum Enrichment **Department Profile Faculty Details** 07 05 06 Alumni **Students Achievements Staff Achievements** 09 10 11 **Department Facilities Best Practices Future Plan**



Staff Achievements

Funds Received

S.No	Name of the Faculty	Title of the Project	Amount Received	Funds received from	Year
1	Ms.P.Anitha	Study on Mensural Hygiene Management of Women in Ettarai Village	Rs. 50,000	KR Fuels	2020 - 2021
2	Dr.B.Varalakshmi Dr.J.Radhika Dr.V.Suganya	Diet and Life Style Modifications to Combat Polycystic Ovary Syndrome Among SC/ST Adolescent Girls in Tiruchirappalli	Rs. 75,000	RGNIYD	2021 - 2022
3	Dr.T.Karpagam	Combating Pathogenic Gene Expression by Polyherbal Preparation on Vaginal Infection Causing Microorganism	Rs. 7,500	TNSCST	2021 - 2022
4	Dr.R.Manikandan	Impact of Non Communicable Diseases in India	Rs. 90,000	ICSSR	2023 - 2024



Staff Achievements

Awards & Publications



Awards Received - An Outstanding Teacher Award 2022 - MS.P Anitha



Received the 'Perumaimigu Perasireyar Virudhu' in the Teacher's Day celebration jointly organized by Malar Kannan Publishers and MAM Creations on 24.09.2023 at Prasath Lab Preview Theater, Saligram Chennai.





ICMARKERS

ISSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/loi/ibmk20

Cardio-protective effects of *terminalia catappa* leaves and *terminalia chebula* fruit extract in doxorubicin-induced cardiomyopathy in rats

Ramasamy Manikandan, Balamuralikrishnan Balasubramanian, Panneerselvam Punniyakotti, Arumugam Vijaya Anand, Arun Meyyazhagan, Shanmugam Velayuthaprabhu, Rengasamy Lakshminarayanan Rengarajan, Utthapon Issara & Wen-Chao Liu

To cite this article: Ramasamy Manikandan, Balamuralikrishnan Balasubramanian, Panneerselvam Punniyakotti, Arumugam Vijaya Anand, Arun Meyyazhagan, Shanmugam Velayuthaprabhu, Rengasamy Lakshminarayanan Rengarajan, Utthapon Issara & Wen-Chao Liu (2022): Cardio-protective effects of *terminalia catappa* leaves and *terminalia chebula* fruit extract in doxorubicin-induced cardiomyopathy in rats, Biomarkers, DOI: <u>10.1080/1354750X.2022.2064550</u>

To link to this article: https://doi.org/10.1080/1354750X.2022.2064550



Published online: 02 May 2022.

Dr.R.Manikandan SCIE - Impact Factor - 2.66



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Extension Activities





A Visit to Pollution Free Environment and solid waste management Ponnampatti on 10.02.2018



Maintenance of Herbal Garden & Competition on Traditional Herbal Food Practices at Santhanam Vidhyalaya on 30.06.2018







Awareness Programme on Menstrual Health and Hygiene Management for Women at Keezhapathai, Ettarai Village, on 19.02.2021



Herbs & Soups for healthy life style at SV on

Production of Vermiwash in Panchayat Union Hall, Ettarai 08.02.2020



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Department Facilities

Instruments



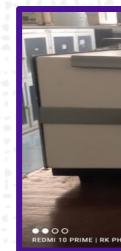




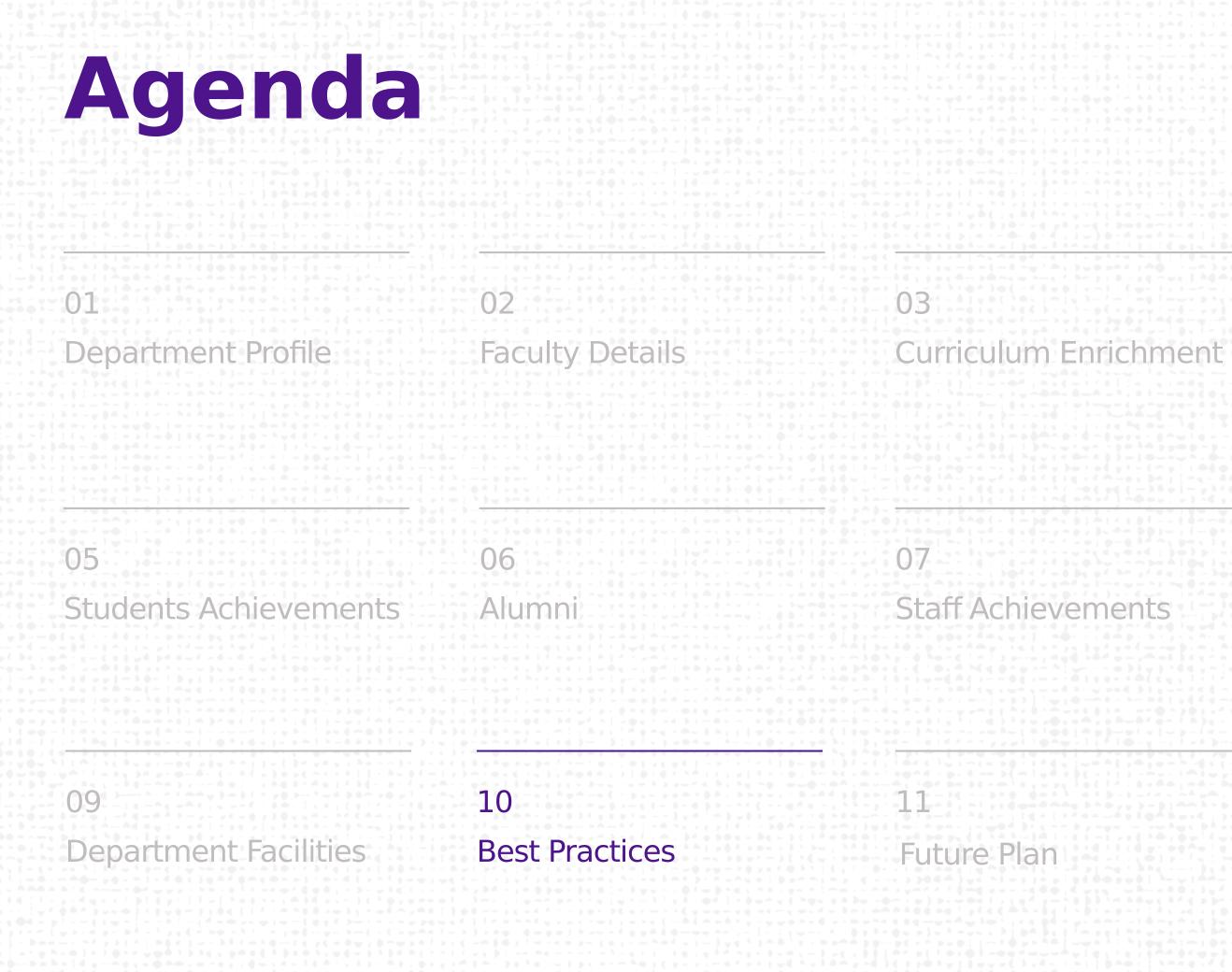














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Extension Activities

Best Practices

Regular Internships in Reputed Institutes **Clinical Laboratories** CECRI, CLRI Research Institutes

Best Laboratory Practices

Personalized Hands on Training and Skill, Development extended in clinical Procedures

> Encourage Students to publish in Peer Reviewed, Scopus indexed, UGC Care Journals **Book Chapter Writing**

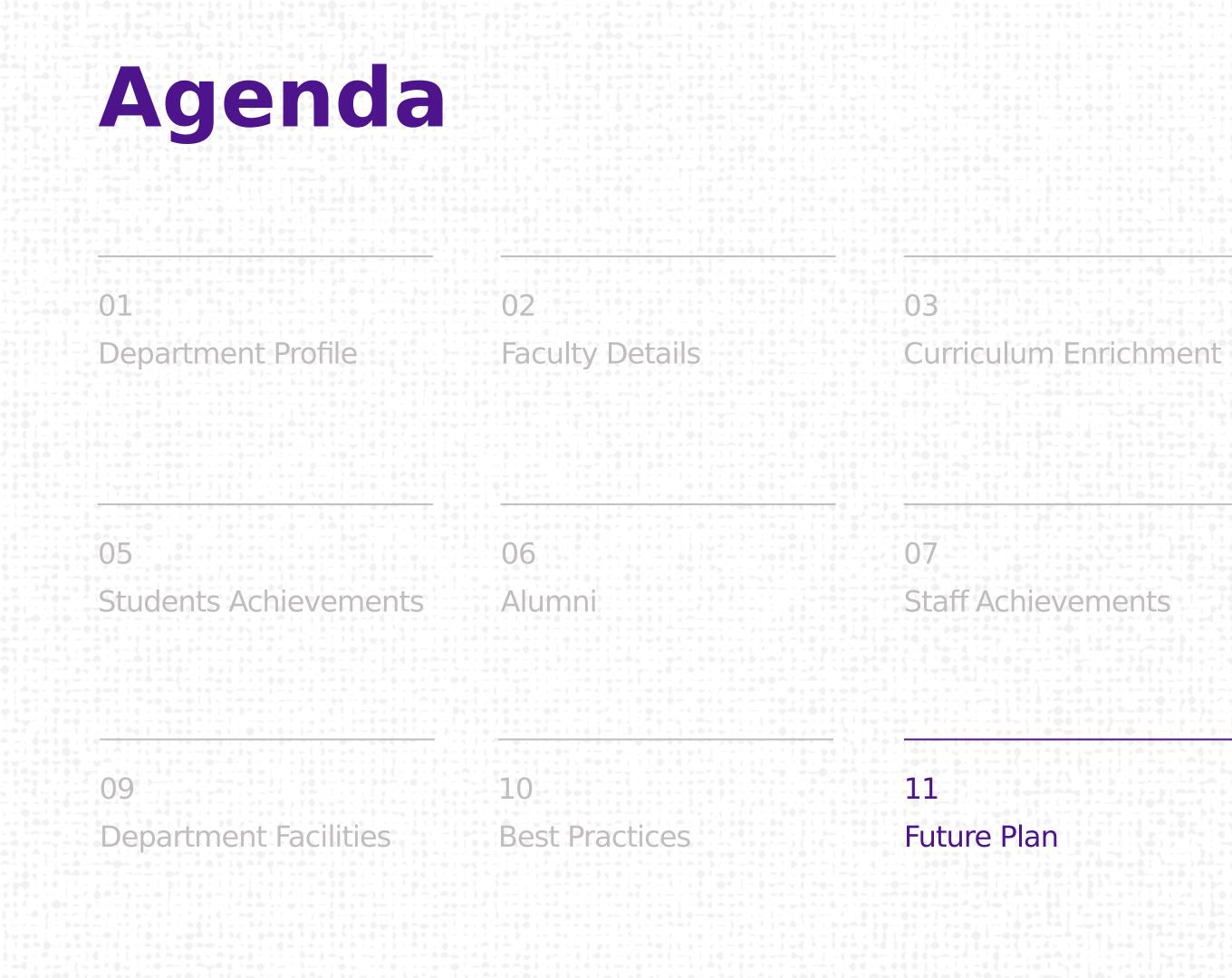




Internship



Publications





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Extension Activities

Future Plan



To upgrade into research department

o start MoU with reputed companies

Establishment of Molecular lab









- Qualified and Experienced Faculty •
- Well Equipped Lab
- Passionate Students •

Limited Awareness on the Scope of Biochemistry as a Career in Schools.



Internship in Reputed Companies

Filling the gaps to prepare students for Industries





