



## Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3<sup>rd</sup> Cycle)

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### Department of Microbiology

#### Activities (2021-22)

##### 1. Guest Lecture/Invited Lecture

S. No.	Date	Name and Designation of the Resource Person	Topic	Venue	Beneficiary
1	28-Feb-22	Dr. Jibu Thomas, Professor and Head, Department of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore.  Google meet	Webinar on Innovations for sustainable future in Science and technology	<b>Google meet:</b>	Both UG and PG students (90)
2	07-Dec-21	Mr. Syed Samiullah, Head operations, Professional Info Tech, Coimbatore.	Webinar on "Healthcare and its opportunities"	Google meet code: rvw-pkvo- ngt	Both UG and PG students (90)
3	14-Sep-21	Dr. Aruliah Rajasekar, Assistant Professor and Ramalingaswamy Fellow, Department of Biotechnology, Thiruvalluvar University, Vellore.	Webinar on "Microbial Diversity in the crude oil reservoirs"	Google meet code: ahg-gchx- jnw	Both UG and PG students (90)

4	13-Sep-21	Dr. M. Arun, Assistant Professor, Department of Biotechnology, Bharathiar University, Coimbatore.	Webinar on "Inheritance and Gaucher Disease	Google meet code: <a href="https://meet.google.com/kei-xnrc-qvn">https://meet.google.com/kei-xnrc-qvn</a>	Both UG and PG students (90)
5	08-Sep-21	Dr. P. Vidya, Head, Department of Microbiology, DG Vaishnav College, Chennai.	Webinar on "Novel and Practical aspect of Clinical research"	Google meet code: <a href="https://meet.google.com/hbf-bfms-oiy">meet.google.com/hbf-bfms-oiy</a>	Both UG and PG students (90)
6	07-Sep-21	Dr. V. Naveen Kumar, Founder and Managing Director, Immugenix Biosciences, Chennai.	CRISPR-Cas system; A modern Genetic Engineering tool to detect and cure human disease	Google meet code: <a href="https://meet.google.com/mjb-kqhm-gzm">meet.google.com/mjb-kqhm-gzm</a>	Both UG and PG students (90)
7	30-Jun-21	Dr. S. Sivasubramanian, Senior Scientist, King Institute, Chennai	Virological and Immunological Aspects of SARS CoV2	Google meet code: <a href="https://meet.google.com/qji-tivr-mka">meet.google.com/qji-tivr-mka</a>	Both UG and PG students (90)
8	18-Jun-21	Dr. G. Bupesh, Central University, Nagaland	Epidemiology and Standardization of Rapid Diagnostic tools for detecting Human parainfluenza type 2 virus in chennai	Google meet code: <a href="https://meet.google.com/quq-bzzn-mas">meet.google.com/quq-bzzn-mas</a>	Both UG and PG students (90)
9	03-Jun-21	Dr. A. M. Deshmukh, President, Microbiology Society	Recent Trends in Microbiology	Google meet code: uju-ravp-wxk	Both UG and PG students (90)

## 2. Seminar /Workshop Conferences organized

S. No.	Date	Nature of the Event (Conference/ Seminar/Workshop )	Number of External Participants	Title of the Event	Name & Designation of the Speakers	Name & Affiliation Chair & Co-chair	Funding Agency	Total Funding
1	12-Apr-22	Workshop for PG chemistry students	60 Students of Chemistry	Antimicrobial Evaluation and MIC	Dr. S. Senthil Prabhu  Dr. R. Mahenthiran  UG Microbiology Lab	-	Under DBT Star College scheme	-
2	13-Apr-22	Workshop for PG Physics students	60 Students of Physics	Antimicrobial Evaluation and MIC	Dr. S. Senthil Prabhu  Dr. R. Mahenthiran  UG Microbiology Lab	-	Under DBT Star College scheme	-
3	11-Oct-21	Virtual Lecture Workshop series 2021- 22	Both UG and PG students (90)	Raising of IgY and its applications	Dr. R. Mahenthiran, Assistant Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-

4	07-Oct-21	Virtual Lecture Workshop series 2021-22	Both UG and PG students (40)	Quality analysis in Pharmaceutics	Dr. A. M. Ramachandran, Associate Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-
5	06-Oct-21	Virtual Lecture Workshop series 2021-22	Both UG and PG students (90)	RT-PCR and Diagnosis	Dr. N. Vidhya, Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-
6	04-Oct-21	Virtual Lecture Workshop series 2021-22	Both UG and PG students (90)	Microbial metabolites and its insecticidal activity	Ms. M. Mynumathi, Assistant Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-
7	04-Oct-21	Hands on Training program	35 students of KMCH pharmacy	Microbial isolation and Molecular analysis for KMCH college of Pharmacy students	Dr. R. Mahenthiran, Assistant Professor & Prof. M. Nivethitha, Assistant Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-

8	30-Sep21 & 01-10-21	Hands on training	30 students of biochemistry	Basic Microbiological Techniques for Biochemistry students	Dr. R. Mahenthiran, Assistant Professor & Prof. M. Nivethitha, Assistant Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-
9	27-Sep-21	Virtual Lecture Workshop series 2021- 22	Both UG and PG students (70)	Antimicrobial testing and its applications	Prof. C. Sasikala, Assistant Professor, Department of Microbiology, Dr NGP ASC	-	Under DBT Star College scheme	-
10	27-Nov-21	International Seminar	Both UG & PG Students of Microbiology	Perspectives of Nanotechnology in Medical applications	Dr. Karthic Rajamanickam, Lab Manager, Dr. Franco Vizeacoumar Lab, Saskatchewan Cancer Agency, University of Saskatchewan, Canada.  Dr M D Balakumaran, Professor and Head, Department of Biotechnology, DG Vaishnav College, Chennai	--	Under DBT Star College scheme	--

					Dr D J Mukesh kumar, Scientist, AviGen Biotech Pvt.Ltd, Chennai			
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### 3. Special Day Observations

S No.	Date	Event / Programme	Topic	Guest / Venue
1	28-Feb-22	Day Celebration	National Science Day	Google Meet
2	29-Dec-21	Day Celebration	International Biodiversity day December 29	UG lab and Room No. 1311
3	04-Oct-21	Day Celebration	World fungus day 2nd october	Online
4	17-Sep-21	Day Celebration	International Microorganisms Day	Google meet
5	12-Sep-21	Day Celebration	Samooga neethi naal	PG Lab
6	11-Sep-21	Day Celebration	World First Aid day	DrNGPASC

### 4. Extension Activities

S. No.	Date	Nature of the extension	Place	Students involved
1	11-Sep-21	Awareness on Importance of First Aid Poster and meme creation competition on observation of World First Aid day	Dr NGP ASC	Students of Microbiology (30)

### 5. Awards and Prizes for Staff

S. No.	Name of the Staff	Name of the Award	Awarded by	Cash Prize (If any)	Date
1	Sasikala C	Seed money for Project	Management of Dr. N G. P. ASC	5000	05-Oct-21
2	Dr J Rengaramanujam	Seed money for Project	Management of Dr. N G. P. ASC	5000	05-Oct-21
3	Dr R Mahenthiran	Seed money for Project	Management of Dr. N G. P. ASC	5000	05-Oct-21
4	Dr A M Ramachandran	Seed money for Project	Management of Dr. N G. P. ASC	5000	05-Oct-21
5	Dr S Senthil Prabhu	Seed money for Project	Management of Dr. N G. P. ASC	5000	05-Oct-21
6	Dr. J. Rengaramanujam	Research Publication Incentive	Dr NGP ASC	1000	02-Nov-21
7	Prof. C. Sasikala	Research Publication Incentive	Dr NGP ASC	1000	02-Nov-21

### 6. Staff Recognitions:

S. No.	Name of the Staff	Acted As	Name of the Programme	Date	Venue
1	Dr. S. Senthil Prabhu	Resource Person	Hands on Training on Stereo & Inverted Microscope	21-Dec-21	Department of Microbiology, RVS College of Arts and Science, Coimbatore

2	Dr A M Ramachandran	Resource person	Online guest lecture on "Career opportunities for Microbiologists in Pharmaceutical industry	07-Dec-21	Vels institute of Science and Technology and Advanced Studies (VISTAS), Chennai
3	Dr R Mahenthiran	Resource Person	Webinar on "Microbiology - Future Prospects"	30-Nov-21	Barathidasan College of Arts and Science College
4	Dr S Senthil Prabhu	Invited Lecture on the topic "The glory of fungi and its application"	Webinar on Observation of World Fungi Day	02-Oct-21	Bharathidasan College of Arts and Science, Erode
5	Sasikala C	Invited Lecture	Alumina Elite Carnival 2021-22 on the topic Bioprospecting	06-Aug-21	Tiruppur Kumaran College for Women
6	S. Karthik Sundaram	Resource Person for Expert Talk	Expert Talk on the topic "Fungal Opportune Gaining Momentum - A Retrospection"	23-Jul-21	SRM Institute of Science and Technology, Ramapuram Campus, Chennai
7	Dr J Renga Ramanujam	Acted as Resource person on the topic "Antibiotic Resistance and One Health"	International Colloquium on "Microbiome world survival versus expiry"	09-Jul-21	Srinivasan College of Arts and Science



## 7. Staff Participation

S. No.	Date	Name of the Faculty	Name of the Workshop/FDP/Training Programme	College
1	17-Dec-21 & 18-Dec-21	Dr N Vidhya	Two days workshop on NGS; 16s Metagenome Sample to Data	Ganga Orthopedic Research and Educational Foundation
2	17-Dec-21 & 18-Dec-21	Sasikala C	Two day workshop on NGS; 16s Metagenome Sample to Data	Ganga Orthopedic Research and Educational Foundation
3	10-Nov-21 & 11-Nov-21	Dr S S Sudha	FDP	kongunadu Arts and Science College
4	23-Sep-21 to 24-Sep-21	Dr. S. S. Sudha	State level workshop on "Public Financial Management System with special reference to TSA"	ADM College, Nagai, Tamilnadu
5	12-Jul-21 to 17-Jul-21	Dr S Senthil Prabhu	ATAL Online FDP on Drug Engineering through Bioprospecting	Department of Biotechnology, Dr. N.G.P. Arts and Science College
6	12-Jul-21 to 16-Jul-21	Dr. J. Rengaramanujam	Online Elementary FDP on "Drug Engineering through Bioprospecting"	ATAI Academy, All India Council for Technical Education
7	12-Jul-21 to 16-Jul-21	Dr. A. M. Ramachandran	Online Elementary FDP on "Drug Engineering through Bioprospecting"	ATAI Academy, All India Council for Technical Education
8	12-Jul-21 to 16-Jul-21	Prof. C. Sasikala	Online Elementary FDP on "Drug Engineering through Bioprospecting"	ATAI Academy, All India Council for Technical Education
9	12-Jul-21 to 16-Jul-21	Dr. R. Mahenthiran	Online Elementary FDP on "Drug Engineering through Bioprospecting"	ATAI Academy, All India Council for Technical Education
10	15-Jun-21 to 21-Jun-21	Dr. S. S. Sudha	Seven Day online FDP on "Research Methodology and Pedagogy for Tertiary Education"	IQAC, Dr NGP ASC

11	15-Jun-21 to 21-Jun-21	Dr. J. Rengaramanujam	Seven Day online FDP on “Research Methodology and Pedagogy for Tertiary Education”	IQAC, Dr NGP ASC
12	15-Jun-21 to 21-Jun-21	Prof. C. Sasikala	Seven Day online FDP on “Research Methodology and Pedagogy for Tertiary Education”	IQAC, Dr NGP ASC
13	15-Jun-21 to 21-Jun-21	Dr. S. Karthik Sundaram	Seven Day online FDP on “Research Methodology and Pedagogy for Tertiary Education”	IQAC, Dr NGP ASC
14	10-Jun-21 to 15-Jun-21	Dr J Devakumar	Five Days National FDP titled “ “Innovative Teaching And Research in Science: Exploring The New Horizons”	Science Forum in Association with IQAC, Government First Grade College, Vijayanagar, Karnataka
15	10-Jun-21 to 15-Jun-21	Dr S S Sudha	Five Days National FDP titled “ “Innovative Teaching And Research in Science: Exploring The New Horizons”	Science Forum in Association with IQAC, Government First Grade College, Vijayanagar, Karnataka

### 8. Staff Publication

S. No.	Name of the Faculty	Title	Journal Name	ISSN / ISBN No. Date of publishing Vol. No.	Impact Factor	SCI/WoS/ UGC/SSCI/Scopus
1	Sasikala C	Microalgal Diversity - Review	International Journal of Research and Analytical Reviews	E-ISSN 2348-1269	--	Google Scholar
2	Sasikala C	Macroalgal Diversity	Macroalgal Diversity	E-ISSN 2348-1269	--	Google Scholar
3	Sasikala C & Dr Geetharamani D	Isolation and Characterization of Principle Bioactive Compounds from Ulva fasciata	Indo Global Journal of Pharmaceutical Sciences	2249- 1023	--	Google Scholar

4	Dr S S Sudha	Microbiome and Microbiota – An Influencer Early in the Life	Journal of Pharmacy and Biological Sciences	2278-3008 07-Dec-21 16(4)	0.888	UGC
5	Sasikala C	Antibacterial and phytochemical analysis of Cinnamon bark (Cinnamomum zeylanicum) extract against clinical pathogens	International Journal of Pharmaceutical Research and Applications	2249-7781 27-Nov-21 6(6)	0.79	Google scholar
6	Sasikala C and Dr D Geetharamani	Antibacterial activity of Jania rubens from Gulf of Mannar, south coast of India	Indian Journal of Natural Product Resources	0976-0504 11-Nov-21 12(3)	0.55	UGC and Scopus
7	Dr S Senthil Prabhu	Hydrogel formulation from calotropis gigantea plant extract against foot ulcer causing bacteria in diabetes	Asian Journal of Pharmaceutical and Clinical Reserach	01-Nov-21	6.974	Scopus
8	Dr. A.M. Ramachandran	construction of simplified microbial consortium from gold ornaments and their sensitivity against disinfectants	International journal of creative research thoughts	2320-2882 12-Oct-21 9(8)	-	UGC
9	Dr.A.M. Ramachandran	Hydrogel formulation from calotropis gigantea plant extract against foot ulcer causing bacteria in diabetes	Asian Journal of Pharmaceutical and Clinical Research	2455-3891 29-Sep-21 14(11)	-	UGC
10	Dr. S. Senthil prabhu	Biosynthesis and Characterization of silver nanoparticles by Fusarium sp. and it's antimicrobial and antioxidant activity	International Journal of Scientific Development and Research (IJS DR)	2455-2631 5(9) 01-Sep-21	5.41	Google scholar

11	Dr.A.M. Ramachandran	Antibacterial and phytochemical analysis of Capsicum annum (chili pepper BSS-859 F1 Hybrid) against foodborne pathogens	International journal of creative research thoughts	2320-2882 11-Aug-21 9(8)	-	UGC
12	Dr.A.M. Ramachandran	Evaluation of microbial load on combs in various places within the tirupur district, tamilnadu, and sensitivity pattern of disinfectants	International journal of creative research thoughts	2320-2882 10-Aug-21 9(8)	-	UGC
13	Dr S S Sudha	Synthesis and Characterization of Silver Nanoparticle From Couroupita Guianensis Leaf Extract and its Effect on Clinical Pathogens	Asian Journal of Pharmaceutical and Clinical Research	2455-3891 08-Aug-21 13(10)	6.974	UGC
14	C Sasikala	Fermentation of amla juice by probiotic latic acid bacteria	International Journal of Creative Research Thoughts	2320-2882 01-Aug-21 9(8)	-	UGC
15	C Sasikala	Characterisation and formulation of cosmetic product from the seaweed eucheuma spinosum	International Journal of Creative Research Thoughts	2320-2882 01-Aug-21 9(8)	-	UGC
16	Dr. A.M. Ramachandran	Green synthesis of silver nanoparticles using Zingiber officinale rhizome extract and its application on diabetic ulcer.	International journal of creativite research thoughts	2320-2882 26-Jul-21 9(7)	-	UGC
17	Dr. S. Senthil prabhu	Covid-19 associated mucormycosis and candidiasis in india and herbal medicine treatment for fungal infections: a review	International journal of creative research thoughts (ijcrt)	2320-2882 15-Jul-21 9(7)	-	UGC

18	Dr.R. Mahenthiran	Analysis of genetic variants and mutations of the novel corona virus sars-cov-2	World journal of pharmacy and pharmaceutical sciences	2278-4357 13-Jul-21 10(8)	7.6	Google Scholar
19	Dr. J. Deva kumar	Development of Fungal Consortium to Degrade the Polyethylene Polymer and Polystyrene	International journal of progressive research in science and engineering	10-Jul-21 2(7)		
20	Dr.R.Mahenthiran	Antibacterial activity of sweet orange (Citrus sinensis) on Staphylococcus aureus and Escherichia coli isolate from wound infections	Journal of Emerging Technologies and Innovative Research (JETIR)	2582-7898 Jul-21 8(7)	5.4	Google scholar
21	Dr.R.Mahenthiran	Assay of Antigen Preparation for Production of Antibody against Bacterial and Fungal spp.	Aegaeum journal	0776-3808 2021 9(6)	6.1	Google Scholar
22	S. Karthik Sundaram	Production of biodiesel based on the bioremediative potential of algae on industrial effluent	International Journal of Scientific Development and Research	2455-2631 15-Jun-21 6(6)	5.47	Google scholar

### 9. Research Funding

S. No.	Name of the Faculty	Name of the project / scheme	Sanction No. and Date	Funding body	Amount
1	Dr. J. Rengaramanujam	Research Publication Incentive	DEAN/R&D/2021-22/084 02-Nov-21	Management of Dr. N G. P. ASC	1000

2	Prof. C. Sasikala	Research Publication Incentive	DEAN/R&D/2021-22/084 02-Nov-21	Management of Dr. N G. P. ASC	1000
3	Sasikala C	Seed money for Project	DRNGPASC/DEA N/R&D/SM/2020-21/032 05-Oct-21	Management of Dr. N G. P. ASC	5000
4	Dr J Rengaramanujam	Seed money for Project	DRNGPASC/DEA N/R&D/SM/2020-21/028 05-Oct-21	Management of Dr. N G. P. ASC	5000
5	Dr R Mahenthiran	Seed money for Project	DRNGPASC/DEA N/R&D/SM/2020-21/025 05-Oct-21	Management of Dr. N G. P. ASC	5000
6	Dr A M Ramachandran	Seed money for Project	DRNGPASC/DEA N/R&D/SM/2020-21/031 05-Oct-21	Management of Dr. N G. P. ASC	5000
7	Dr S Senthil Prabhu	Seed money for Project	DRNGPASC/DEA N/R&D/SM/2020-21/027 05-Oct-21	Management of Dr. N G. P. ASC	5000

#### 10. Staff / Student Consultancy

S. No.	Name of the Staff / Student	Area of Consultancy	Duration	Place where Consultancy was offered	Amount
1	All staff	Microbiology	One month	Department of Microbiology	35000
2	All staff	Microbiology	One month	Department of Microbiology	25000

### 11. Co-curricular Activities

S. No.	Name of the Event	Date	Venue	Prize won
1	Alumni Lecture series 2022 on Molecular Diagnosis (Covid) by Mr. Balaram P K, Molecular Technician, Maitocon Laboratory, Tiruppur.  Google meet	01-Apr-22	Google Meet	--
	National Science Day Celebrations 2022	28-Feb-22	Google meet	--
2	International Biodiversity day December 29 Interdepartmental competitions - Quiz and Drawing	29-Dec-21	UG lab and Room No. 1311	-
3	Alumni Interaction on “Importance of Quality Controller in Food Industry” by Ms. Durga Devi, R& D Executive, Thillais Masala, Viruthunagar	04-Dec-21	Online	-
4	Alumni Interaction on “Basics of Research” by Ms. Sri Alamelu, Project Assistant, Ganga Spine Research Center, Coimbatore	23-Nov-21	Hall No.1411	-

	Online Alumni Interaction Program on “Future of medical coding” by Mr. M. Karthikeyan, Programmer, Calpion Ltd, Coimbatore	13-Nov-21	Google Meet	-
5	Alumni Interaction on “Future of medical coding” Mr. M. Karthikeyan, Programmer, Calpion Ltd, Coimbatore	13-Nov-21	<a href="https://meet.google.com/wgz-ddeu-kg">meet.google.com/wgz-ddeu-kg</a>	-
6	Fungal photography competition-2021 World fungus day 2nd october	04-Oct-21	Online	-
7	International Microorganisms Day Celebrations	17-Sep-21	xgp-kfge-evh	-
8	Online Alumni Interaction Program on the topic “Clinical Trials Industry – An Alumni’s observations” by Mr. Sehan Pushparaja (Batch 2011-14), Senior Statistical Programmer, Biostatistics, IQVIA, Melbourne, Australia	23-Aug-21	<a href="https://meet.google.com/pgw-fbjk-ygd">https://meet.google.com/pgw-fbjk-ygd</a>	-
9	Samooga neethi naal	12-Aug-21	PG Lab	-

## 12. Students Participation

S. No.	Date	Name of the Students	Event	College	Inter Collegiate / Inter Departmental	Prizes won
1	29-Dec-21	R.Narmatha	International Biodiversity day	Department of Microbiology, Dr NGPASC	Inter departmental	III Prize in Drawing



2	03-Dec-21	R. Praveena	Connection	Department of Commerce and Professional Accounting, Dr NGPASC	Inter departmental	I Prize
3	03-Dec-21	Sharumathy U	Connection	Department of Commerce and Professional Accounting, Dr NGPASC	Inter departmental	I Prize
4	02-Oct-21	R.Narmatha	Fungal photography competition-2021	Department of Microbiology, Dr NGPASC	Inter departmental	Participation
5	01-Oct-21	M.Srimuki	Fungal photography	Dr. NGP ASC	Inter collegiate	2nd prize
6	17-Sep-21	Abinayasri H	Paper presentation - Microbes rule the world	Dr. NGP ASC	Inter departmental	Participation
7	17-Sep-21	G.Anisha	Paper presentation	Department of Microbiology, Dr NGPASC	Inter departmental	III Prize

### 13. Students Counseled

S. No.	Name of the class	Number of Students
1	I B Sc Microbiology	15
2	II B Sc Microbiology	20
3	III B Sc Microbiology	20
4	I M Sc Microbiology	20
5	II M Sc Microbiology	16

**14. Book Publications:**

<b>S.No</b>	<b>Date</b>	<b>Name of the staff</b>	<b>Name of the Book</b>	<b>Name of the Publisher</b>
1	16-Dec-21	Dr S S Sudha and Dr J Devakumar	General properties and Pharmacological benefits OF Syzygium jambos	JPS publishers
2	06-Sep-21	Dr. J. Rengaramanujam	Pharmacological Benefits of <i>Eleutherococcus senticosus</i>	JPS publishers