



## 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 (2<sup>nd</sup> Cycle)

DST-FIST DBT-Star College Scheme

Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.

### Department Activities (2019-2020)

#### 1. Guest Lecture/Invited Lecture

S. No.	Date	Name and Designation of the Resource Person	Topic	Venue	Beneficiary
1	22-Jun-19	Dr. M. Rajkumar, Professor, Department of Environmental Sciences, Bharathiar University, Coimbatore	Microbe mediated mitigation of multiple environmental stress in plants	KambarArangam	107
2	22-Jun-19	Dr. S.S. Sudha, Programme Coordinator, DBT STAR College Scheme, Dr. N.G.P. Arts and Science College, Coimbatore	In house Lecture on Benefits of DBT STAR College Scheme	KambarArangam	107
3	27-Jun-19	Dr. Geetha .N, Assistant Professor, Department of Studies in Biotechnology, University of Mysore, Mysore	Nanobiotechnology – Prospects and Applications	Seminar Hall VII	171
4	13-Jun-19	Dr. M.Poongothai, Assistant Professor, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore	In house Lecture on Computer Aided Drug Designing	UG Biotechnology Lab	76
5	05-Aug-19	Dr. Natarajan Velmurugan, Scientist – CSIR-NEIST & DST INSPIRE, Branch Laboratory, Itanagar, Arunachal Pradesh	Development of Biotechnological Processing with microalgae and plant using flow cytometry and next generation sequencing approaches	Seminar Hall VII	113
6	12-Sep-19	Dr. S. Sathyamoorthy, Senior Researcher and Consultant, Insilicogen, Inc. Yongion, Gyeonggi-do, South Korea	Uses of Bioinformatics Tools	UG Biotechnology Lab	71
7	09-Jan-20	Guest Lecture by Mrs. N. MangaleshwariManjari Assistant Professor in Psychology & Student Counsellor, KMCRET,	Promotion of Mental Health and Suicide Prevention	Seminar Hall - VI	250

		Coimbatore			
8	01- Feb- 20	Guest Lecture by Dr. V. Bharath Kumar, Assistant Professor, Department of Faculty of Applied Sciences, Ton Duc Thang University, Vietnam	Biomarkers and its applications	Seminar Hall - XI	200
9	05- Feb- 20	Guest Lecture by Shanmughapriya Santhanam, PhD, Assistant Professor Heart and Vascular Institute Department of Medicine Department of Cellular and Molecular Physiology Pennsylvania State University College of Medicine, Hershey - 17033	Mitochondrial Calcium, the signal integrator for cellular metabolism	Seminar Hall - VIII	250
10	13- Mar- 20	Guest Lecture by P.M. Ayyasamy, Assistant Professor Department of Microbiology Periyar University Salem – 636 011	Microbes and Microbial Products for Sustainable Environment and Agriculture	Seminar Hall X	150
11	13- Mar- 20	Guest Lecture by Dr. Subashchandrabose Chinnathambi AcSIR Assistant Professor and Senior Scientist Neurobiology Group, Biochemical Sciences Division National Chemical Laboratory (CSIR - NCL) Pune - 411 008, Maharashtra	Who is the Master Mind	Seminar Hall X	150

## 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	28-Jun-19	Workshop	(Internal) 107	Hands on experience on Intricacies in Plant Tissue Culture	Dr. K. Kalimuthu, Assistant Professor, Department of Botany, Government Arts and Science College, Coimbatore	-	DBT STAR	Rs.3000
2	01-Jul-19	Workshop	(Interdepartmental) 47	Workshop on Quantification of DNA from Herbal Leaves and Animal tissues using nanophotometer	Dr. M. Shanmugavadivu and Dr. M. Poomgothai Assistant Professors, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	Rs.1000
3	05-Jul-19	Workshop	(Interdepartmental) 40	Workshop on UV-Visible Spectrophotometer	Mr. S. Karthik, Assistant Professors, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	-
4	08-Jul-19	Workshop	(Interdepartmental) 30	Workshop on Tools for Biologists in Bioinformatics	Dr. RadhaPalaniswamy Assistant Professors, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	-
5	13-Jul-19	Workshop	(Internal) 107	In house lecture workshop on Computer	Dr. M. Poongothai Assistant Professors, Department of Biotechnology, Dr. N.G.P. Arts and	-	DBT STAR	-

				aided drug designing	Science College, Coimbatore			
6	15-Jul-19	Workshop	(Internal) 65	In house workshop on Operations in MS Office	Mr. Rajakrishnan Assistant Professors, Department of Commerce, Dr.N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	-
7	19-Aug-19	Workshop	(Internal) 65	Workshop on Death of Privacy and video editing tools	Dr. Rajeshkanna, Head, Department of IT, Dr.N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	-
8	29-Aug-19	Workshop	(Interdepartmental) 12	Workshop on Protein purification techniques	Dr. M. Poongothai Assistant Professors, Department of Biotechnology, Dr.N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	
9	05-Sep-19	Workshop	(Internal) 65	workshop on Operations in MS Office	Dr. Dinesh kumar, Assistant Professors, Department of Commerce, Dr.N.G.P. Arts and Science College, Coimbatore	-	DBT STAR	-
10	01-Feb-20	Lecture workshop	(Intercollegiate) 80	Scientific Writing	Dr. RadhaPalaniswamy, Assistant Professor, Dr.M.N.Kathiravan, Associate Professor and Ms.K.Priyadarshini, Assistant Professor, Department Biotechnology, Dr.N.G.P. Arts and Science College, Coimbatore	-	-	Rs. 1000
11	03-Feb-20	Workshop	80	Cost Effective Mushroom Cultivation	Dr.M.Poongothai, Assistant Professor, Department Biotechnology, Dr.N.G.P. Arts and Science College, Coimbatore	-	-	Rs. 1000

12	21-Feb-20 & 22-Feb-20	National Symposium	(Intercollegiate) 50	NSGR-2020	1. Dr. BasavarajMadhusudhan, Professor, Davangere University, Karnataka 2. Mr. SriramPrasad . G, CEO and Founder Keeraikadai Ventures Pvt.Ltd, 3. Dr. DurairajGnanaprakasam Director – Technical and BD Cell Creep Biotech, Bangalore			Rs. 8000
13	06-Mar-20 & 07-Mar-20	National conference	20	Futuristic Approaches in Transformation of Bioscience Research	1.Dr.K.Veluthambi, I NSA Senior Scientist, MKU, Madurai. 2.Dr.E.M Shankar, Central University of Tamil nadu,, Thiruvavur. 3. Dr.R.Viswanathan, Director, SBI-ICAR, Coimbatore.	-	-	-

### 3.Extension Activities

S. No.	Date	Nature of the extension	Place	Students involved
1	07-Sep-19	Awareness on water management	PeriyaThadagam	65
2	01-Feb-20	Organic farming	Appanayakenpatti	66

### 4. Awards and Prizes for Staff

S. No.	Name of the Staff	Name of the Award	Awarded by	Cash Prize (If any)	Date
1	Dr. RadhaPalaniswamy	Cleared UGC-NET	UGC	-	Jan 2020

2	Dr. S. Karthik	Research Excellence	INSc	-	May 2020
3	Dr. S. Karthik	Sri NallaGounder Research & Innovation Award (Best Thesis)	Dr.N.G. P ASC	-	29-Feb-20
4	Dr. S. Karthik	Sri NallaGounder Research & Innovation Award (Best Work Paper)	Dr.N.G. P ASC	Rs. 500	29-Feb-20

### 5. Staff Recognitions

S. No.	Name of the Staff	Acted As	Name of the Programme	Date	Venue
1	Dr.P.Chidambararajan	Chairperson	National Seminar on “Recent Innovations in Biosciences”- NSRIB’19”	18-Sep-19	Dr. R.V. College of Arts and Science, Karamadai
2	Dr. M. Poongothai	Resource Person	Invited Lecture	10-Feb-20	Karpagam academy of Higher Education, Coimbatore
3	Dr. RadhaPalaniswamy	Resource Person	Invited Lecture	08-Feb-20	Sri Kannapiran Mills, Coimbatore
4	Dr. RadhaPalaniswamy	Resource Person	Invited Lecture	19-Feb-20	Srinivasa Mills, Then Thirupathi, Coimbatore
5	Dr.P.Chidambararajan	External Member	BoS for Affiliated Colleges of Periyar University, Salem	12-Feb-20	Periyar University

### 6. Staff Participation

S. No.	Date	Name of the Faculty	Name of the Workshop/FDP/Training Programme	College
1	30-Sep-19	Dr. M. Shanmugavadivu	One day National Seminar on “Mushrooms – rise of Research and Retreats for Humanity”	TNAU, Coimbatore
2	30-Sep-19	Dr.	One day National Seminar on “Mushrooms – rise of	TNAU, Coimbatore

		RadhaPalaniswamy	Research and Retreats for Humanity”	
3	01-Oct-19	Dr. K. Arungandhi	One Day National workshop on“ Production Technology on Mushroom”	TNAU, Coimbatore
4	01-Oct-19	Dr. M. Poongothai	One Day National workshop on “ Production Technology on Mushroom”	TNAU, Coimbatore
5	28-Jan-20-29-Jan-20	Mr. Arun.P	Two day technical workshop on “Intellectual Property Rights (IPR)”	PSG College of Arts and Science, Coimbatore
6	28-Jan-20-29-Jan-20	Dr. M. N. Kathiravan	Two day technical workshop on “Intellectual Property Rights (IPR)”	PSG College of Arts and Science, Coimbatore
7	11-Feb-20	Dr. RadhaPalaniswamy	Workshop on X-ray Crystallography	Avinashilingam Deemed University, Coimbatore

## 7. Staff Presentation

S. No.	Date	Name of the Faculty	Name of the Conference	Name of the title	College
1	12-Feb-20	Dr. M. Poongothai	International Conference on Bioscience Towards a Sustainable Future	Bioplastic form Biowaste	KSG College of Arts and Science, Coimbatore
2	20-Feb-20 – 21-Feb-20	Dr. M. Poongothai	National conference on Environment and Biosciences	Evaluation of workplace heat stress impact on male infertility	Avinashilingam Institute for Home Science for Women, Deemed University, Coimbatore
3	21-Feb-20 & 22-Feb-20	Dr. P. Chidambararajan	National Conference on Empowerment of Rural Communities Through Innovations in	Review on-Food Packing Material From <i>Artocarpusheterophyllus</i> (Jack Fruit)	Kongunadu Arts & Science College, Coimbatore

			Science and Technology		
4.	24-Feb-20	Dr. S. Karthik	National Conference on “Frontiers in Biotechnology: An Interdisciplinary Approach”	Wet Chemical Preparation of herbal nanocomposites from medicinal plant leaves for enhanced coating on textile fabrics with multifunctional properties	Sri Ramakrishna College of Arts and Science, Coimbatore
5.	04-Mar-20 & 05-Mar-20	Dr. S. Karthik	Sixth International Conference on “Engineering and Technology”	Green Synthesis of ZnO nanoparticles for Biomedical Application	Selvam College of Technology, Namakkal

### 8. Students Presentation

S.No	Date	Name of the student	Name of the event	Name of the title	College
1	24-Feb-20	Ms. Chandra Priya. B	National Conference on “Frontiers in Biotechnology: An Interdisciplinary Approach”	Evaluation and formulation of nanoherbal ointment for rheumatoid arthritis	Sri Ramakrishna College of Arts and Science, Coimbatore

### 9. Staff Publications

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.	Dr. M. Shanmugavadivu	Review Paper: Groundnut shell -a beneficial bio-waste	Biocatalysis and Agricultural Biotechnology	ISSN: 1878-8181 15 June 2019 Pg. No: 1-5	-	Scopus
2.	Mr. Arun. P	Green Synthesis of Magnesium Nanoparticles from <i>Magnolia champaca</i> and <i>Chrysanthemum</i>	Journal of Emerging Technologies and Innovative Research	ISSN-2349-5162 June 2019 6(6):117-124	-	-



		<i>grandiflorum</i> – A Comparative Study				
3.	Dr. K. Arungandhi	Extraction, Characterization and Partial Purification of L-Asparaginase from the Leaves of <i>Arachis Hypogaea L</i>	Bioscience	ISSN- 1525-3244 September 2019 16(3):681-691	-	-
4.	Dr. M. Shanmugavadivu	<i>Bacillus anthracis</i> Mediated Saccharification of Groundnut Shell for Ethanol Production	International Journal of Plant, Animal and Environmental Sciences	ISSN -2231-4490 September 2019 9(3):190-199	-	-
5.	Dr. M. Poongothai	<i>Bacillus anthracis</i> Mediated Saccharification of Groundnut Shell for Ethanol Production	International Journal of Plant, Animal and Environmental Sciences	ISSN – 2231-4490 September 2019 9(3):190-199	-	-
6.	Dr. M. Shanmugavadivu	Potential Uses of Fish: A Review	International Journal of Innovative Research in Science, Engineering and Technology	ISSN:2319-8753 October 2019 8(10): 10150-10153	-	-
7.	Dr. P. ChidambaraRajan	<i>In Virto</i> Antioxidant and Anticancer Activity of <i>Ulva Lactuca L.</i> using MOLT-3 Cell Line	Asian Journal of Pharmaceutical and Clinical Research	E-ISSN: 2455-3891 P - ISSN: 0974-2441 May 2019 12(5)75-78.		
8.	Dr. P. ChidambaraRajan	Photocatalytic degradation of Bisphenol A in water under sunlight irradiation over ZnO nanoparticles fabricated by Ethiopian Cactus pear fruit peel infusions	Optik	In Press		

9.	Dr.K.Arungandhi	Heavy metal polluted soil : A review on heavy metal contamination and their toxic effects	Journal of Emerging Technologies and Innovative Research	ISSN: 2349-5162 June2019 6(6):25-34		
10.	Dr.K.Arungandhi	Safe Herbal Drinking Water- Review	Int J Res Eng Sci. &Mangt	ISSN: 2581-5792 January 2020 3(1):373-375		
11.	Mr.Arun.P	A review about Bioactive compounds of Feenugreek	Int J Eng App Sci. & Tech	ISSN:2455-2143 Nov2019 4(7):332-335		
12.	Mr.Arun.P	Production of alternative culture medium by using different Plant extract, vegetables and Fruit Juices - A review	Int J Eng App Sci. & Tech	ISSN:2455-2143 Nov2019 4(8):371-373		
13.	Mr.Arun.P	A review of <i>Tridaxprocumbensa</i> and its activity	Int J Eng App Sci. &Tech	ISSN:2455-2143 Nov2019 4(8): 192-194		
14.	Mr.Arun.P	A review on <i>Vitexnegundo</i> Linn	Int J Eng App Sci. & Tech	ISSN:2455-2143 Nov2019 4(8): 195-198		
15.	Mr.Arun.P	Review on <i>Hemigraphiscolorata</i> and its properties	Int J Eng App Sci. & Tech	ISSN:2455-2143 Nov2019		

				4(7):336-338		
16.	Dr.RadhaPalniswamy	Application of Endophytic Bacteria in Plant Growth Enhancement	Int. J Pharm and Biological Science	ISSN:2230-7605 July 2019 9(3):457-461		
17.	Dr.RadhaPalniswamy	A Review on Titanium Dioxide Nanoparticles in Food Packaging	International Journal of Research and Analytical Reviews	ISSN 2348-1269 June 2019 6(2):785-796		
18.	Dr.Radhapalaniswamy	Review on Nanobased Herbal face wash power	International Journal of Green and Herbal Chemistry	ISSN: 2278-3229 December 2019 9(1):001-025		
19.	Dr.Radhapalaniswamy	Antibacterial Activity of Zinc Oxide Nanoparticles Produced from <i>Kappaphycusalverezii</i>	Journal of Emerging Technologies and Innovative Research	ISSN: 2349-5162 June2019 6(6):247-252		
20.	Dr. S. Karthik	Comparison of Silver, Copper and Iron Nano particles from Leaf Extract of Azadirachta indica and its Anti-microbial, Biosensing activity and toxicity	International Journal of Innovative Research in Science,Engineering and Technology	ISSN: 2319-8753 May2019 8(5):6018-6030		
21.	Dr. S. Karthik	Biomimetic TiO <sub>2</sub> -	Materials Science	ISSN:0928-		

		chitosan/sodium alginate blended nanocomposite scaffolds for tissue engineering applications	& Engineering C	4931 January 2020 110:1-13		
22.	Dr. S. Karthik	Functional and Antimicrobial Properties of herbal nanocomposites from Piper betle Plant Leaves for enhanced Cotton Fabrics	Journal of Coating Technology and Research	ISSN: 1547-0091. Accepted (In Press)		
23	Dr.P.ChidambaraRajan	Natural Colourants and its uses - A review	Euro J Pharm Med Res	ISSN:2394-3211 6(3):269-272		
24	Dr.P.ChidambaraRajan	In vitro antioxidant and anticancer activity of Ulva lactuca L. using MOLT- 3 cell line	Asian Journal of Pharmaceutical and Clinical Research	ISSN:2455-3891 March 2019 12(5): 75-78		
25	Mr.Arun.P	<i>Ixoracoccinea</i> - A Review	European Journal of Biomedical and Pharmaceutical sciences	ISSN:2349-8870 6(5):143-145		
26	Mr.Arun.P	<i>Camelliasinensis</i> (Tea Plant) – A Review	European journal of pharmaceutical and medical research	ISSN:2394-3211 6(3):225-231		
27	Mr.Arun.P	Conservation of Plant Materials by Cryopreservation - A Review	European Journal of Biomedical and Pharmaceutical sciences	ISSN:2349-8870 6(3):216-220		
28	Dr. P. ChidambaraRajan	Isolation, Identification and Protein profiling of Chitinase producing marine Bacteria	International Journal of Advanced Multi disciplinary research	ISSN:2393-8870 5(5):78-83		
29	Dr.RadhaPalaniswamy	Antibacterial and Antiacne Activity of <i>Caesalpiniasappan</i> L. and <i>Cinnamomumveru</i> mJ. Presl- A	International Journal of Advanced Research in Biological Sciences	ISSN:2348-8069 5(4):118-122		

		Comparison				
--	--	------------	--	--	--	--

### 10. Students Participation

S. No.	Date	Name of the Students	Event	College	Inter Collegiate / Inter Departmental	Prizes won
1	25-Jul-19	N. Kavya II M.Sc Biotechnology	Professional Hunt-2K19- Presume Crush	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
2	25-Jul-19	M.Vignesh II M.Sc Biotechnology	Professional Hunt-2K19- Presume Crush	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
3	14-Aug-19	B. Ravikumar I B.Sc Biotechnology	BioQuiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
4	14-Aug-19	K. Akileshwaran I B.Sc Biotechnology	BioQuiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
5	14-Aug-19	Mohammed SuhaibAlhuq.M III B.Sc Biotechnology	BioQuiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	III Prize
6	14-Aug-19	Surenthar.V III B.Sc Biotechnology	BioQuiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	III Prize
7	14-Aug-19	A.Lingeswar II M.Sc Biotechnology	BioQuiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
8	14-Aug-19	S. Sandhiya II M.Sc Biotechnology	BioQuiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
9	20-Aug-19	B. Ravikumar I B.Sc Biotechnology	Interdepartmental Quiz	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	I Prize
10	22-Aug-19	V. Padmapriya I B.Sc Biotechnology	Poster presentation	Dr.N.G.P. Arts and Science College,	Inter Departmental	I Prize

				Coimbatore		
11	22-Aug-19	R. Abinaya I B.Sc Biotechnology	Poster presentation	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	I Prize
12	04-Sep-19	G. Hariprasad I B.Sc Biotechnology	Built-Up	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	I Prize
13	24-Sep-19	Hariprasad.G I B.Sc Biotechnology	Poster Presentation – Rose Day	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	I Prize
14	24-Sep-19	E.T. Nagendran I B.Sc Biotechnology	Poster Presentation – Rose Day	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	I Prize
15	24-Sep-19	G.Ragul III B.Sc Biotechnology	Poster Presentation – Rose Day	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
16	24-Sep-19	B. Ravikumar I B.Sc Biotechnology	Slogan Writing – Rose Day	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	I Prize
17	24-Sep-19	V. Logeswaran II M.Sc Biotechnology	Slogan Writing – Rose Day	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
18	24-Sep-19	E.T. Nagendran I B.Sc Biotechnology	Slogan Writing – Rose Day	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	III Prize
19	28-Sep-19	V.Logeshwaran, II M.Sc Biotechnology	Bioidea	Dr.N.G.P. Arts and Science College, Coimbatore	Inter Departmental	II Prize
20	12-Feb-20	K.Sabarinath and S.Sandhya II M.Sc Biotechnology	Poster Presentation in 6 <sup>th</sup> International Conference on “Bioscience towards a sustainable future”	K.S.G College of Arts and Science, Coimbatore	Inter Collegiate	II Prize
21	21-Feb-20	V.Logeshwaran and K.Sabarinath	Paper presentation	Dr.N.G.P. Arts and Science	Inter Collegiate	I Prize

	- 22-Feb- 20	II M.Sc Biotechnology	on in NSGR	College, Coimbatore		
--	--------------------	--------------------------	---------------	------------------------	--	--