

THIAGARAJAR COLLEGE (AUTONOMOUS)
NATIONAL CENTRE OF EXCELLENCE

REPORT (2016 – 17)

1. Faculty publications: (i) Research Papers in Journals

S.No.	Author(s)	Title of the paper article	Name of the Journal	Volume, Issue & Page No. and Year	Peer reviewed/non peer reviewed / e journal	ISSN No. and Impact factor
01	S.Muralikrishnan, N. Arun Nagendran, & D. Pandiaraja	Survey of birds in Chitrangudi and Kanjirankulam village ponds in relation to vegetation: an avian paradise of south India	Journal of Entomology and Zoology studies	5(1), 407 – 412, 2017	Peer reviewed online and printed	Online – 2320-7078 Printed – 2349 - 6800

(ii) Books published

S.No.	Author(s)/Editor	Title of the Book/Book Chapter	Year of Publication	ISBN No.	Publisher(s)
01	N. Arun Nagendran, S. Kulandaivel, S. Muralikrishnan, R.Rohini	Kinetics of marine microbial products	2016	--	NCoE (MHRD)

2. Faculty participation in Workshop/Competitions/Meetings/Conferences and Symposia

Name of the Programme	Date	Title	National /international
Dr. D. Balachandran	06.10.16	Workshop on Genomic analysis and protein designing using internet tools, Vivekananda College	National
Dr. D. Balachandran & Dr. A. Surendran	24.01.17 & 25.01.17	Networking on Ecohistoric and cultural heritage of India, Lady Doak College	National

3. Workshop/Competitions/Meetings/Conducted

Name of the Programme	Date	Type of Grant	Programme theme	Target Group
Winter School	21.11.16 – 26.11.16	MHRD	Statistics for Biologists	PG Biology students of various colleges
Winter School	21.11.16 – 26.11.16	MHRD	Mathematical modelling on Bioresource Management	PG Mathematics & Biology students
Winter School	21.11.16 – 26.11.16	MHRD	Kinetics of marine microbial products	PG and UG biology students

4. Guest lectures by experts in various fields

Date	Occasion/Organization	Topic	Speaker/Participant
21.11.16	Winter Schools inauguration	Highthroughput structural biology and biocomputing	Dr. J. Jeyakanthan Professor & Head, Chairperson, Department of Bioinformatics, Alagappa University, Karaikudi
21.11.16	Winter school on Statistics for Biologists	Data: Collection, representation, sampling error	Dr. C. Balasubramanian, Dept. of Zoology, Thiagarajar College
		Introduction to SPSS	Dr. S. Pushparaj Dept. of Economics, MKU
	Mathematical modelling on bioresource management	Bioresource management - introduction	Dr. D. Kannan, Dept. of Botany, Thiagarajar College
		Introduction to Matlab and its basics	Dr. M. Senthil, Thiagarajar College of Management
Kinetics of marine microbial products	Introduction to fermentation technology	Dr. Rm, Murugappan, Head, dept. of Zoology, Thiagarajar College	
22.11.16	Winter school on Statistics for Biologists	Application of statistics for biologists	Dr. R.Gopal, Thiagarajar School of Management
		Descriptive statistics	Dr. C. Ravi, Department of Zoology, Thiagarajar College
	Mathematical modelling on bioresource management	Simple mathematical models in biology	Dr. A. Tamilselvan, Bharathidasan University, Trichirappalli
		Kinetics of marine microbial products	Biofuels
Medium preparation	Dr. K. Saraswathi, Dept. of Botany, Thiagarajar College		
23.11.16	Winter school on Statistics for Biologists	Parametric tests	Dr. D. Kannan, Dept. of Botany, Thiagarajar College
	Mathematical modelling on bioresource management	Method of least square using Matlab	D. Murugeswari, Dept. of Mathematics, Thiagarajar College
	Kinetics of marine microbial products	Growth kinetics	S. Kulanthaivel, Dept. of Zoology & Microbiology, Thiagarajar College
24.11.16	Winter school on Statistics for Biologists	Correlation & regression	Dr. K. Saraswathi, Dept. of Botany, Thiagarajar College
		Non parametric tests	Dr. Gautam Sutar, Thiagarajar School of Management
		Parametric tests - II	Dr. R.Gopal, Thiagarajar School of Management
	Mathematical modelling on bioresource management	Solving differential equation models using Matlab	M. Madhavan, Dept. of Mathematics, Thiagarajar College
	Kinetics of marine microbial production	Amylase and its significance	Dr. C. Ravi, Department of Zoology, Thiagarajar College
		Glutamic acid production	Ms. K. Ramya Vaideki, Dept. of Botany & Biotechnology,

			Thiagarajar College
		Cell immobilization	Dr. K. Saraswathi, Dept. of Botany, Thiagarajar College
25.11.16	Winter school on Statistics for Biologists	ANOVA	Dr. D. Kannan, Dept. of Botany, Thiagarajar College
		Variable analysis - 1	D. Murugeswari, Dept. of Mathematics, Thiagarajar College
		Variable analysis - 2	M. Madhavan, Dept. of Mathematics, Thiagarajar College
	Mathematical modelling on bioresource management	Mathematical modelling using fractal analysis	R. Udhayakumar, Gandhigram Rural institute
	Kinetics of marine microbial production	Production kinetics	S. Kulanthaivel, Dept. of Zoology & Microbiology, Thiagarajar College
Gluconic acid & its significance		Dr. K. Saraswathi, Dept. of Botany, Thiagarajar College	
26.11.16	Winter school on Statistics for Biologists	Factor analysis	D. Murugeswari, Dept. of Mathematics, Thiagarajar College
	Mathematical modelling on bioresource management	Mathematical models for algal spatial competition using graph theoretical modelling	R.P. Adithya, VVV College
	Kinetics of marine microbial production	Enzyme kinetics	S. Kulanthaivel, Dept. of Zoology & Microbiology, Thiagarajar College
		Lyophilization	Dr. K. Saraswathi, Dept. of Botany, Thiagarajar College
	Valedictory function of Winter Schools	Valedictory address	Dr. S. Sudhakar, Professor & Head, Dept. of Biotechnology, M.S. University, Tirunelveli.

5 a). Student activities/ achievements:

Date	Programme	Participants/No. of students	Participated/Awarded
08.09.16	State level intercollegiate meet – MICROBES 2016, ANJA College, Sivakasi	13 students	Over all First place
08.09.16 to 10.09.16	Field trip to Cochin	II M.Sc., Biotechnology students	Participation
14.09.16	State Level Student's Seminar, Department of Zoology & Microbiology, Thiagarajar College	01	Participation
06.10.16	National Level Workshop on Genomic analysis and protein designing, Vivekananda College, funded by TNSCST, TN Science Centre	10 students	Participation

07.10.16	Approaches to understand modern biology through research held at Aravind Medical Research Foundation, Madurai	02	Participated
19.01.17 to 21.01.17	Science Academies Lecture Workshop on Introduction to Modern Biology sponsored by IASc., Bangalore, INSA, New Delhi, INASc., Allahabad	01	Participated
07.12.16 & 08.12.16	International Conference on Recent Trends in Microbiology, Alagappa University, Karaikudi	S. Muralikrishnan, Res. Scholar	Paper presentation - Isolation and characterization of L-asparaginase producing marine bacteria and process optimization
07.12.16 & 08.12.16	International Conference on Recent Trends in Microbiology, Alagappa University, Karaikudi	S. Muralikrishnan, Res. Scholar	Paper presentation - Isolation and characterization amylase producers and optimization of enzyme production
03.01.17	Visit to Department of Environmental Biotechnology	16 students	Participated
05.01.17 & 07.01.17	DBT sponsored National workshop on Recent trends in molecular biology and bioinformatics, Lady Doak College	Field assistant	Participated
10.02.17	Intercollegiate Competition on Fauna – A treasure for our pleasure	04 students	Participated
27.02.17	State Level Student's seminar, Department of Botany and Biotechnology	R. Vasuu Pradhaa	I Prize
28.02.17	One day Science Workshop (on commemoration of National Science Day) funded by IISER, Kerala, Yadhava college	05 students	Participated
07.03.17	MICROFIESTA – 17, The American College, Madurai	12 students	Mr. Madhan, P, II M.Sc., Biotechnology has won II place in photography
15.02.17 to 28.02.17	Winter School on Contemporary Ecological issues	Mrs. S. Bhuvaneshwari Res. Scholar	Participated
10.03.17 to 12.03.17	Fourth Indian Biodiversity Congress (IBC 2017)	S. Muralikrishnana Res. Scholar	Paper presentation – Diversity and distribution of birds in Vettankudi Birds Sanctuary in relation to vegetation in southern Western Ghats, Sivaganga District, India

b. Other student activities:

i. Research Scholarships

Name	Type of scholarship	Amount (Rs.)
S. Muralikrishnan	Project Fellow	12,000 pm
R. Rohini	Project Fellow	12,000 pm
P. Nirvin	Project Fellow	12,000 pm