



RAMAKRISHNA MISSION VIVEKANANDA EDUCATIONAL AND RESEARCH INSTITUTE

[FORMERLY KNOWN AS RAMAKRISHNA MISSION VIVEKANANDA UNIVERSITY]

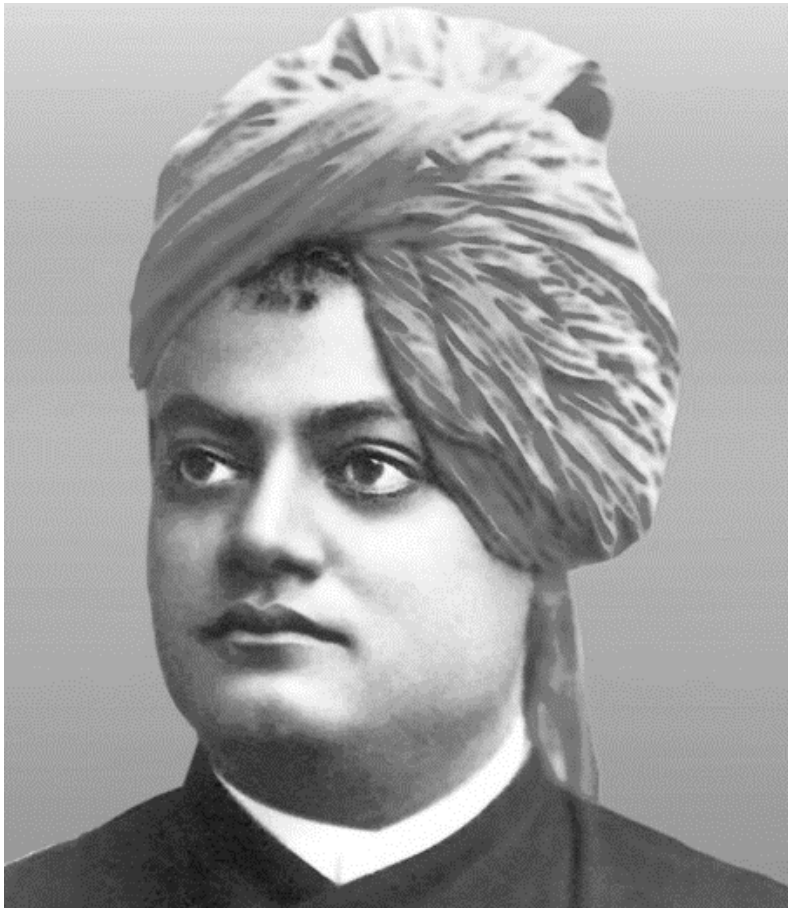
(Declared by Govt. of India as Deemed University under Section 3 of UGC Act, 1956)

PO Belur Math, Dist Howrah 711202, West Bengal

Brief Profile and Report of Activities for the Financial Year 2018-19

(01 April 2018 to 31 March 2019)

HISTORIC BACKDROP: SWAMI VIVEKANANDA'S VISION AND OBJECTIVES



Ramakrishna Mission
Vivekananda University,
formerly known as
'Ramakrishna Mission
Vivekananda Educational and
Research Institute' is a humble
first step in actualizing Swami
Vivekananda's vision of a
University at Belur Math, the
headquarters of Ramakrishna
Math and Ramakrishna Mission
that he founded at the behest of
his Master, Sri Ramakrishna
Paramahansa. In fact, on 2 July
1902, just a couple of days
before he passed away, Swami
Vivekananda prophesied that
"the spiritual impact that has

come to Belur [Math] will last fifteen hundred years; and it will be a great university. Do not think I imagine it; I *see* it." On another occasion, he wrote: "Now, the aim is to gradually develop this [Belur] Math into an all round university." As a humble step in actualizing this vision, Ramakrishna Mission started a University in 2005 under the name 'Ramakrishna Mission Vivekananda Educational and Research Institute'. It is also known as 'Ramakrishna Mission Vivekananda University', as subsequently renamed. In its effort to actualize Swami Vivekananda's vision of imparting 'man-making' and character-building education, the University has set its objectives as achieving excellence in the field of higher education on the one hand and on the other to create a band of educated youth who would, in Swami Vivekananda's words, possess 'muscles of iron and nerves of steel and a mind made of the same material of which the thunderbolt is made'—in short the objective is the creation of 'complete human beings' with 'head, hand and heart' fully developed: 'heart to feel, brains to conceive, and hands to work', men and women of impeccable character, inflexible moral fibre, penetrating intellects, lion-like courage and above all, intense feeling for the underprivileged and the downtrodden masses of India, those who would passionately feel and work for rebuilding a glorious India of the future—powerful, vigorous and rejuvenated.

VISION AND MISSION

Vision:

To be a great centre of learning blending the twin excellences of ancient Indian wisdom and modern scientific knowledge and technological skill, imparting life-building, character-making education.

Mission:

- ✓ **Pursuit of Excellence** - To strive for excellence in teaching, research and all academic endeavors.
- ✓ **Blending of Eastern and Western values** - To inculcate ancient Indian values like Shraddha (unshakable conviction), purity, truth, selflessness, harmony and peace, blending them with predominantly western values like scientific temper, rational outlook, technological efficiency, teamwork, professional integrity, work ethics, etc., in order to create a band of educated youth with lofty character and integrated personalities with harmonious development of heart, head and hand—faculties of feeling, thinking and willing—bhakti, jnana and karma with yoga or concentration interpenetrating all these.
- ✓ **Social responsibility** - To train and educate the youth to become socially responsible citizens to collectively rebuild a rejuvenated, glorious India by first of all building an impeccable, lofty character at the individual level.

OBJECTIVES, UNIQUENESS AND SALIENT FEATURES—THE ‘THRUST AREAS’:

The uniqueness of the University consists in its following salient features:

- (i) the emphasis on certain ‘thrust areas’ which are also ‘gap areas’ in that these areas scarcely receive any attention in the conventional universities in India,
- (ii) the multi-campus character of the University—it operates through a wide network of specialized Faculty Centres in these thrust areas located in different parts of India at the various branch-centres of Ramakrishna Mission some of which have been working in these areas for decades,
- (iii) the inculcation of higher human values in our attempt to realize Swami Vivekananda’s vision of education as ‘life-building, man-making character-making assimilation of ideas’—value-based education forms the essential component of *all* the courses run by the University.

To start with, the following ‘thrust areas’ have been chosen:

- (1) Disability Management and Special Education
- (2) Integrated Rural Development including Tribal Development
- (3) Indian Cultural and Spiritual Heritage and Value Education
- (4) Fundamental sciences—integrated teaching and research
- (5) Environmental Science and Disaster Management including relief and rehabilitation

Courses and academic programmes in the above areas are conducted at the University’s Belur main campus (the Headquarters) and the following approved ‘Off-campus’ centres through the various Schools as mentioned below:

- (1) **School of Rehabilitation Sciences and Physical Education** at Coimbatore, Tamil Nadu.
- (2) **School of Agriculture and Rural Development** at (i) Narendrapur, West Bengal, and (ii) Ranchi, Jharkhand.
- (3) **School of Indian Heritage** at Belur main campus and Swami Vivekananda’s Ancestral House, Kolkata, West Bengal.
- (4) **School of Mathematical Sciences** at Belur main campus and Swami Vivekananda’s Ancestral House, Kolkata, West Bengal.
- (5) **School of Humanities and Social Sciences** at Belur main campus and Swami Vivekananda’s Ancestral House, Kolkata, West Bengal.

ACCREDITATION BY NAAC

The National Assessment and Accreditation Council, acronymed as NAAC (in Hindi: *Rashtriya Mulyankan evam Pratyayan Parishad*), accredits various higher education institutions after proper assessment based upon seven criteria, namely,

- (i) Curricular Aspects,
- (ii) Teaching-Learning and Evaluation,
- (iii) Research, Innovations and Extension,
- (iv) Infrastructure and Learning Resources,
- (v) Student Support and Progression,
- (vi) Governance, Leadership and Management,
- (vii) Institutional Values and Best Practices.

NAAC has been continuously improving and modifying its accreditation process to bring about greater transparency, objectivity and reliability. For this purpose, NAAC thoroughly revamped its process from July 2017 introducing 70% assessment through Data Verification and Validation of certain Quantitative Metrics responses to which will be verified and validated by a third party with the help of computer software designed specifically for the purpose while the rest of the 30% assessment is done through an expert team (called Peer Team) visit based on the responses to certain Qualitative Metrics. These Quantitative and Qualitative assessments are then suitably combined according to a certain formula and the final grade is awarded in 0—4 scale. The Institutional Cumulative Grade Point Average (CGPA) is calculated using the well-established statistical techniques and Grades awarded.

In the results released on 28 March 2019 in NAAC website, the Deemed-to-be-University, 'Ramakrishna Mission Vivekananda Educational and Research Institute' headquartered in Belur Math, with 'Off-Campus' Centres in Coimbatore (Tamil Nadu), Ranchi (Jharkhand) and Narendrapur (West Bengal), has been awarded the **highest Grade of A++ with CGPA of 3.66**, which is just a wee bit lesser than the CGPA of 3.67 obtained by the reputed Indian Institute of Science at Bengaluru.

Thus, Ramakrishna Mission's Deemed-to-be-University in the hallowed name of Swami Vivekananda, going for NAAC accreditation in its very first cycle, **ranks SECOND in the whole country** among all the Universities that have been accredited in the Revised Accreditation Format (RAF) initiated from July 2017 by NAAC.

The A++ accreditation will be valid for five years up to 28 March 2024.

THE BOARD OF MANAGEMENT OF RKMVERI AS ON 31 MARCH 2019

1. Swami Atmapriyananda, Vice Chancellor (Chairperson)
2. Swami Bodhasarananda, Assistant General Secretary, Ramakrishna Mission
3. Swami Sarvottamananda, Pro-Vice Chancellor
4. Swami Kirtipradananda, Registrar (ex-officio Secretary of the Board of Management)
5. Sri Sunil Kumar Barnwal, IAS, Principal Secretary to the Chief Minister of Jharkhand
6. Sri M. Saravanan, IAS, PS to the MoS, Dr Jitendra Singh, Govt. of India, New Delhi
7. Dr. A. Santhosh Mathew, IAS (Retd), former Chairperson of National Council of Teacher Education (NCTE), former Jt. Secretary, Ministry of Rural Development, Govt. of India
8. Dr. Sunaina Singh, Vice Chancellor, Nalanda University, Rajgir, Bihar
9. Dr. Ishwar Acharya, Director, Central Council of Research in Yoga and Naturopathy, Ministry of AYUSH, Government of India, New Delhi
10. Dr. Bimal Roy, former Director, Indian Statistical Institute (ISI) and presently Head, RC Bose Centre for Cryptology and Security, ISI, Kolkata
11. Prof. Sukumar Adhikari, Senior Professor and Head, Dept of Maths, RKMVERI
12. Dr. N. Muthiah, Dean of Faculty of Disability Management and Special Education (FDMSE), Coimbatore Campus
13. Prof. Tapash Dasgupta, Dean of Faculty of Integrated Rural Development and Management (FIRDM), Narendrapur Campus
14. Dr. Abhijit Bandyopadhyay, Associate Professor, Dept of Physics, RKMVERI
15. Dr. Avijit Dutta, Assistant Professor, Faculty of Integrated Rural and Tribal Development and Management (IRTDM), Ranchi (Morabadi)
16. Swami Kaleshananda, Controller of Examinations, Main Campus of RKMVERI, Belur (Permanent Invitee)

**ANNUAL REPORT OF ACTIVITIES OF
VARIOUS DEPARTMENTS / UNITS**

FROM 01 APRIL 2018 TO 31 MARCH 2019

LIST OF DEPARTMENTS, SCHOOLS, AND CAMPUSES AT A GLANCE

S. No.	Name of the Department	School	Campus
1	Physics	School of Mathematical Sciences	Belur
2	Computer Science	School of Mathematical Sciences	Belur
3	Mathematics	School of Mathematical Sciences	Belur
4	Sanskrit and Philosophy	School of Indian Heritage	Belur
5	Sports Science and Yoga	School of Rehabilitation Sciences and Physical Education	Belur
6	Faculty of Disability Management and Special Education (FDMSE)	School of Rehabilitation Sciences and Physical Education	Coimbatore
7	General and Adapted Physical Education and Yoga (GAPEY)	School of Rehabilitation Sciences and Physical Education	Coimbatore
8	Faculty of Agricultural Studies and Research (FAR)	School of Agriculture and Rural Development	Coimbatore
9	Faculty of Integrated Rural Development and Management (IRDM)	School of Agriculture and Rural Development	Narendrapur
10	Faculty of Integrated Rural & Tribal Development and Management (IRTDM)	School of Agriculture and Rural Development	Ranchi

PROGRAMMES OFFERED DURING THE YEAR

(i)

Physics

- ✓ M. Sc in Physics
- ✓ Ph. D. in Physics

(ii)

Computer Science

- ✓ M. Sc. Computer Science
- ✓ M. Sc. Big Data Analytics

(iii)

Sports Science and Yoga

- ✓ Integrated M. Phil.-Ph. D. in Sports Science
- ✓ Integrated M. Phil.-Ph. D. in Yoga
- ✓ PG Diploma in Yoga
- ✓ Certificate Course in Yoga
- ✓ Outreach programme in Yoga
- ✓ Certificate Course in Basic Ayurveda, Panchakarma & Naturopathy

(iv)

Mathematics

- ✓ Ph. D. in Mathematics
- ✓ M. Sc. in Mathematics

(v)

Sanskrit and Philosophy

- ✓ M. A. (Integrated) in Sanskrit
- ✓ M. Phil-Ph. D (Integrated) in Sanskrit

(vi)

IRDM

- ✓ M. Sc. in Agricultural Biotechnology
- ✓ M. Sc. in Agriculture and Rural Development
- ✓ M. Sc. (Agriculture) in Genetics and Plant Breeding
- ✓ M. Sc. in Environment and Disaster Management
- ✓ Post Graduate Diploma in Post Harvest and Food Technology
- ✓ Ph. D. in Agricultural Biotechnology
- ✓ Ph. D. in Agriculture and Rural Development
- ✓ Ph. D. (Agriculture) in Genetics and Plant Breeding
- ✓ Ph. D. in Environment and Disaster Management

(vii)

IRTDM

- ✓ 5 years integrated M. Sc. in Agriculture, Rural and Tribal Development
- ✓ 2 years M. Sc. in Agriculture, Rural and Tribal Development
- ✓ Ph. D. in Agriculture, Rural and Tribal Development
- ✓ 2 years M. A. / M. Sc. in Rural Development and Management
- ✓ 1 year Diploma in Agriculture and Rural Development

(viii)

FDMSE

- ✓ D. Ed. Special Education (Visual Impairment)
- ✓ D. Ed. Special Education (Hearing Impairment)
- ✓ D. Ed. Special Education (Mental Retardation)
- ✓ Diploma in Sign Language Interpretation (DISLI)
- ✓ Diploma in Theatre Arts for Holistic Development
- ✓ B. Ed. Special Education (Visual Impairment)
- ✓ B. Ed. Special Education (Hearing Impairment)
- ✓ B. Ed. Special Education (Mental Retardation)
- ✓ M. Ed. Special Education (Visual Impairment)
- ✓ M. Ed. Special Education (Hearing Impairment)
- ✓ M. Ed. Special Education (Mental Retardation)
- ✓ Integrated M. Phil. Ph. D. Special Education
- ✓ Integrated B. Ed. M. Ed. Special Education (Intellectual Disability)
- ✓ Certificate Course in Assistive Technology

(ix)

FAR

- ✓ B. Sc. (Hons) Agriculture

(x)

GAPEY

- ✓ Bachelor of Science in Physical Education Health Education and Sports
- ✓ Bachelor of Physical Education
- ✓ Master of Physical Education
- ✓ Integrated Ph. D. in Physical Education

Certificate courses in 'Indian Spiritual Heritage' & Value Education at Belur campus conducted by the 'School of Indian Heritage':

Certificates courses in:

- ✓ Srimad Bhagavad Gita
- ✓ Katha Upanishad & Isha Upanishad
- ✓ Bhagavatam
- ✓ Spritual Heritage of India
- ✓ Life of Swami Vivekananda
- ✓ Karmayoga
- ✓ Bhaktiyoga
- ✓ Jnanayoga
- ✓ Rajyoga
- ✓ Patanjali Yogasutra
- ✓ Selections from Swami Vivekananda's *Vani O Rachana*
- ✓ Stotras
- ✓ Sri Sri Chandi
- ✓ Sri Ramakrishna Kathamrita

LIST OF TEACHING FACULTY MEMBERS

Physics

S. No.	Name	Designation
1	Dr. Debashis Gangopadhyay	Professor
2	Dr. Ranjan Chaudhuri	Professor
3	Dr. Abhijit Bandyopadhyay	Associate Professor and Head
4	Dr. Shamik Gupta	Associate Professor
5	Dr. Amitava Bhattacharyya	Assistant Professor
6	Dr. Ashik Iqbal	Assistant Professor
7	Dr. Bobby Ezhuthachan	Assistant Professor
8	Brahmachari Aditya	Assistant Professor
9	Dr. Sanjoy Biswas	Assistant Professor

Computer Science

	Name	Designation
1	Swami Sarvottamananda	Professor and Head
2	Dr. Subir Ghosh	Professor
3	Dr. Aditya Bagchi	Professor
4	Dr. Sudipta Das	Assistant Professor
5	Dr. Tanmay Basu	Assistant Professor
6	Dr. Sagnik Sen	Assistant Professor
7	Swami Dhyanagamyanda	Assistant Professor
8	Swami Shastravidyananda	Assistant Professor
9	Brahmachari Ajaatachaitanya	Assistant Professor
10	Brahmachari Tamal	Assistant Professor

Sports Science and Yoga

S. No.	Name	Designation
1	Dr. Asis Goswami	Professor and Head
2	Dr. Asok Ghosh	Professor
3	Dr. Uday Shankar Ray	Professor
4	Dr. Rupayan Bhattacharya	Assistant Professor
5	Dr. Kalipada Pal	Assistant Professor
6	Dr. Dipankar Home	Adjunct Faculty
7	Dr. Subhankar Ghosh	Adjunct Faculty
8	Dr. S.R. Dasgupta	Visiting Faculty
9	Mr. Dipankar Pal	Visiting Faculty
10	Dr. Sukumar Saha	Visiting Faculty
11	Mr. Prasanta Samanta	Trainer
12	Mr. Robin Karati	Trainer

Mathematics

S. No.	Name	Designation
1	Dr. Sukumar Das Adhikari	Professor and Head
2	Dr. Stephan Baier	Professor
3	Dr. Ashish Gupta	Associate Professor
4	Dr. Jyoti Sengupta	Assistant Professor
5	Dr. Arindam Banerjee	Assistant Professor
6	Dr. Shameek Paul	Assistant Professor
7	Dr. Sagnik Chakraborty	Assistant Professor
8	Dr. Rajneesh K Singh	Assistant Professor
9	Brahmachari Dripta	Assistant Professor

Sanskrit and Philosophy

S. No.	Name	Designation
1	Swami Japasiddhananda	Assistant Professor and Head
2	Dr. Rakesh Das	Assistant Professor
3	Dr. Venkataramana Bhat	Assistant Professor
4	Dr. Gopikrishnan Reghu	Assistant Professor
5	Dr. Nagaraj Bhat	Assistant Professor
6	Dr. Neeraj Kumar Bhargave	Assistant Professor
7	Dr. Shantanu Ayachit	Assistant Professor
8	Swami Vedarthananda	Assistant Professor
9	Dr. Ayon Maharaj	Assistant Professor
10	Sri Sukhdev Bhat	Visiting Faculty
11	Sri Swayambha Das	Visiting Faculty

IRDM

S. No.	Name	Designation
1	Dr. Tapash Dasgupta	Professor and Head
2	Dr. Kalyan Ganguly	Honorary Professor
3	Dr. Dinendra Raychaudhuri	Honorary Professor
4	Dr. Pranab Kumar Nag	Professor
5	Dr. Amitava Chatterjee	Emeritus Professor
6	Dr. Rupak Goswami	Assistant Professor
7	Dr. Gautam Chatterjee	Assistant Professor
8	Dr. Sanchayeeta Misra	Assistant Professor
9	Dr. Ashutosh Sawarkar	Assistant Professor
10	Dr. Kishor Kumar	Assistant Professor
11	Dr. Alok Hazra	Scientist

IRTDM

S. No.	Name	Designation
1	Dr. B. C. Saha	Professor and Head
2	Dr. A. K. Jasu	Professor
3	Dr. Dipankar Chatterjee	Assistant Professor
4	Dr. Arunava Sengupta	Assistant Professor
5	Dr. Avijit Kr. Dutta	Assistant Professor
6	Dr. Vishal Walmik Dhote	Assistant Professor
7	Dr. Deepnarayan Mukherjee	Assistant Professor
8	Dr. Sudarsan Biswas	Assistant Professor
9	Dr. Adyant Kumar	Assistant Professor
10	Sri Supratim Patra	Laboratory Demonstrator

FDMSE

S. No.	Name	Designation
1	Dr. N. Muthaiah	Professor and Head
2	Mr. S. Parthasarathy	Assistant Professor
3	Mrs. Kamakshamma Murthy	Assistant Professor
4	Dr. A. Sudha	Assistant Professor
5	Dr. J. B. Dheesha	Assistant Professor
6	Dr. S. Parween	Assistant Professor
7	Dr. Saumya Chandra	Assistant Professor
8	Dr. Ramakrishna Pettala	Assistant Professor
9	Dr. S. Logesh Kumar	Assistant Professor
10	Mrs. S.N. Hamsapriya	Assistant Professor
11	Mrs. K.Dhanalakshmi	Assistant Professor
12	Mrs. M. Senthilvani	Assistant Professor
13	Mrs. V. Indirani	Assistant Professor
14	Mrs. S. Sukumari	Assistant Professor

FAR

S. No.	Name	Designation
1	Dr. A. Raja Rajan	Professor and Head
2	Dr. S. Mani	Professor
3	Dr. P. Muthukrishnan	Professor
4	Dr. G. Pathmanabhan	Professor
5	Dr. R. Kailappan	Professor
6	Dr. S. Suresh Kumar	Assistant Professor
7	Dr. S. Suresh	Assistant Professor
8	Dr. K. Vinoth Kumar	Assistant Professor
9	Dr. G. Yoganathan	Assistant Professor
10	Dr. A. Kaviarasu	Assistant Professor
11	Dr. T. Masanaselvam	Assistant Professor
12	Dr. G. Boopathi	Assistant Professor
13	Mr. M. Ashok Kumar	Assistant Professor
14	Mr. M. Tamil Selvan	Assistant Professor
15	Mr. M. Rajkumar	Assistant Professor
16	Mr. M. Prabakaran	Assistant Professor
17	Mr. S. Kasinathan	Assistant Professor
18	Mr. B. Muthuraja	Assistant Professor
19	Mr. S. Chandraprakash	Assistant Professor
20	Mr. M. Selvam	Assistant Professor
21	Mr. M. Amitava Dutta	Assistant Professor
22	Mr. K. Mohanasundram	Assistant Professor
23	Mr. M. Vijaya Kumar	Assistant Professor

GAPEY

S. No.	Name	Designation
1	Dr. S. Alagesan	Professor and Head
2	Dr. P. J. Sebastian	Professor
3	Dr. R. Giridharan	Assistant Professor
4	Dr. A. Sathiya Moorthy	Assistant Professor cum Sports Physiotherapist
5	Dr. P. Senthil Kumar	Assistant Professor
6	Dr. M. Ravi	Assistant Professor
7	Dr. Dibakar Debnath	Assistant Professor
8	Dr. D. Yuvaraj	Assistant Professor
9	Dr. E. Saravanan	Assistant Professor
10	Dr. M. Ramajayam	Assistant Professor

NEW PROGRAMMES / COURSES STARTED IN THE YEAR

Sports Science and Yoga

The following programmes were introduced during the year:

- ✓ Integrated M. Phil. - Ph. D. in Yoga.
- ✓ Certificate Course in Basic Ayurveda, Panchakarma & Naturopathy.

Mathematics

a) In the M. Sc. programme the following courses were introduced during the year:

- ✓ An applied mathematics/ interdisciplinary elective.
- ✓ 2 Elective courses in the second semester.
- ✓ A course on Discrete Mathematics in the 3rd semester.

b) The following new courses was introduced in the Applied/Interdisciplinary stream

- ✓ M214: Cryptography
- ✓ CS 244: Introduction to Optimization Techniques

IRDM

The following programmes were introduced during the year:

- ✓ M. Sc. (Agriculture) in Genetics and Plant Breeding
- ✓ M. Sc. in Environment and Disaster Management
- ✓ Post-Graduate Diploma in Post Harvest and Food Technology
- ✓ Ph. D. (Agriculture) in Genetics and Plant Breeding

GAPEY

a) The following courses in the Programme *Bachelor of Science in Physical Education Health Education and Sports* were introduced –

- ✓ Sports Management
- ✓ Organization and Administration in Physical Education
- ✓ Leadership training camp
- ✓ Obesity and Weight Management

b) The following courses in the Programme *Bachelor of Physical Education* were introduced –

- ✓ Theories of Sports & Games and Officiating & Coaching
- ✓ Leadership training Programme
- ✓ Environmental Studies,
- ✓ Obesity and Weight Management

c) The following courses in the Programme *Master of Physical Education* were introduced –

- ✓ Personality Development
- ✓ Life Skill Management
- ✓ Village Placement Programme
- ✓ Sports Rehabilitation
- ✓ Recreational and Inclusive Games
- ✓ Special Olympics
- ✓ Software Based Statistical Application in Physical Education
- ✓ Sports Tourism in India

DETAILS OF STUDENTS ADMISSION DURING THE YEAR

Physics

S. No.	Programme	No. of Students
1	M. Sc. Physics	19
2	Ph. D. Physics	0

Computer Science

S. No.	Programme	No. of Students
1	M. Sc. Computer Science	12
2	M. Sc. Big Data Analytics	19

Sports Science and Yoga

S. No.	Programme	No. of Students
1	Integrated M. Phil. - Ph. D. in Sports Science	5
2	Integrated M. Phil.-Ph. D. in Yoga	3
3	PG Diploma in Yoga	14
4	Certificate Course in Yoga	9
5	Certificate Course in Basic Ayurveda, Panchakarma & Naturopathy	14
6	Outreach programme in Yoga	11

Mathematics

S. No.	Programme	No. of Students
1	M. Sc. Mathematics	10
2	Ph. D. Mathematics	8

Sanskrit and Philosophy

S. No.	Programme	No. of Students
1	M. A. (Integrated) in Sanskrit	20
2	M. Phil-Ph. D (Integrated) in Sanskrit	2

IRDM

S. No.	Programme	No. of Students
1	M. Sc. in Agricultural Biotechnology	12
2	M. Sc. in Agriculture and Rural Development	25
3	M. Sc. (Agri) in Genetics and Plant Breeding	3
4	M. Sc. in Environment and Disaster Management	9
5	PG Diploma in Post-Harvest and Food Technology	7
6	Ph. D. in Agricultural Biotechnology	3
7	Ph. D. in Agriculture and Rural Development	2
8	Ph. D. (Agri) in Genetics and Plant Breeding	1
9	Ph. D. in Environment and Disaster Management	2

IRTDM

S. No.	Programme	No. of Students
1	5 year Integrated M. Sc. in ARTD	40
2	1 year Diploma in ARD	37
3	2 year M. Sc. in ARTD	2
4	2 year M. A/M. Sc. in RDM	39

FDMSE

S. No.	Programme	No. of Students
1	Diploma in Sign Language Interpretation	2
2	B. Ed Spl.Edn (VI)	4
3	B. Ed Spl.Edn (HI)	8
4	B. Ed Spl.Edn (MR)	3
5	Integrated B. Ed-M. Ed. (Intellectual Disability)	8
6	M. Ed Spl.Edn (VI)	1
7	M. Ed Spl.Edn (HI)	3
8	M. Ed Spl.Edn (MR)	3

FAR

S. No.	Programme	No. of Students
1	B. Sc. (Hons) Agriculture	61

GAPEY

S. No.	Programme	No. of Students
1	B. Sc.	50
2	B. PEd.	50
3	M. PEd.	19
4	Integrated M. Phil. - Ph. D.	0
5	Ph. D.	0

STUDENTS PASSED OUT DETAILS OF THE YEAR

Physics

S. No.	Programme	No. of Students
1	M. Sc. Physics	19
2	Ph. D. Physics	2

Computer Science

S. No.	Programme	No. of Students
1	M. Sc. Computer Science	6
2	M. Sc. Big Data Analytics	17

Sports Science and Yoga

S. No.	Programme	No. of Students
1	PG Diploma in Yoga (2 year course)	15
2	PG Diploma in Yoga (1 year course)	20
3	M. Phil. in Sports Science	6

Mathematics

S. No.	Programme	No. of Students
1	M. Sc. Mathematics	0
2	Ph. D. Mathematics	2

Sanskrit and Philosophy

S. No.	Programme	No. of Students
1	M. A. (Integrated) in Sanskrit	5
2	M. Phil in Sanskrit	7

IRDM

S. No.	Programme	No. of Students
1	M. Sc. in Agricultural Biotechnology	18
2	M. Sc. in Agriculture and Rural Development	22
3	Ph. D. in Agricultural Biotechnology	2
4	Ph. D. in Agriculture and Rural Development	3

IRTDM

S. No.	Programme	No. of Students
1	5 year Integrated M. Sc. in ARTD	3
2	B. Sc. in ARD	11

FDMSE

S. No.	Programme	No. of Students
1	Diploma in Sign Language Interpretation	5
2	B. Ed Spl.Edn (VI)	2
3	B. Ed Spl.Edn (HI)	4
4	B. Ed Spl.Edn (MR)	10

FDMSE – Students appeared in the Semester Exam awaiting results (2018-19):

S. No.	Programme	No. of Students
1	DISLI	2
2	D.Ed Spl.Edn (HI)	1
3	D.Ed Spl.Edn (MR)	1
4	B.Ed Spl.Edn (VI)	5
5	B.Ed Spl.Edn (HI)	2
6	B.Ed Spl.Edn (MR)	6
7	M.Ed Spl.Edn (VI)	2
8	M.Ed Spl.Edn (HI)	2
9	M.Ed Spl.Edn (MR)	3

FAR

S. No.	Programme	No. of Students
1	B. Sc. (Hons) Agriculture	59

GAPEY

S. No.	Programme	No. of Students
1	B. Sc.	19
2	B. PEd.	44
3	M. PEd.	20

STUDENTS PLACEMENT AND PROGRESSION DETAILS OF THE YEAR

Physics

DETAILS OF STUDENTS PURSUING HIGHER EDUCATION:

Sl. No.	Name of the student	Institution joined for Ph. D.
1	Akash Ghosh	Tata Institute of Fundamental Research, Mumbai
2	Abhishek Ray	Indian Institute of Tropical Metrology
3	Indranil Mukherjee	Saha Institute of Nuclear Physics, Kolkata
4	Joy Ganguly	IIT, Hyderabad
5	Santu Prasad Jana	IIT, Kanpur
6	Shishir Biswas	Indian Institute of Plasma Research, Ahmedabad
7	Souradeep Chakraborty	JNCASR
8	Sumitava Kundu	Indian Association for the Cultivation of Sciences, Kolkata

Computer Science

DETAILS OF STUDENTS PURSUING HIGHER EDUCATION:

Sl. No.	Name of the student	Institution and course persuing
1	Kalyanbrata Maity	IIT Patna - Project Assistant
2	Nandish Chattopadhyay	National Technology Univeristy - Ph. D.
3	Abideep Mukherjee	IIT Kanpur - Ph. D.
4	Arnab Kumar Roy	ISI Kolkata - Ph. D.
5	Sayanta Paul	IIT Patna – M. Tech.

DETAILS OF STUDENTS PLACED:

Sl. No.	Name of the student	Organisation / Company where placed
1	Abirlal Adhikari	Gozocabs pvt. Ltd.
2	Anindita Sen	TCS
3	Ankit Dwivedi	TCS
4	Aprajita Anand	TCS
5	Arunavangshu Maiti	RS Software
6	Avik Bhattacharjee	TCS
7	Gauranga Pradhan	Teaco
8	Jishnu Sarkar	Accenture
9	Sanjukta Goswami	TCS
10	Sounak Banerjee	Teaco
11	Sree Kalyani. J	Accenture
12	Sribas Samanta	TCS
13	Sudipta Pal	TCS
14	Arindam Adak	TCS
15	Falak Jabin	TCS
16	Anurag Banerjee	Voxomos Pvt. Ltd
17	Puspendu Biswas	Manipal Business Solution
18	Ritam Majumder	RS Software
19	Sourav R Chowdhury	Videonetics

Mathematics

DETAILS OF STUDENTS PURSUING HIGHER EDUCATION:

Sl. No.	Name of the student	Institution and course persuing
1	Joydip Saha	IIT, Gandhinagar – Postdoc
2	Surojit Ghosh	University of Haifa, Israel – Postdoc

IRDM

DETAILS OF STUDENTS PURSUING HIGHER EDUCATION:

Sl. No.	Name of the student	Institution and course persuing
1	Koyel Bardhan	University of Hyderabad – Ph. D.
2	Madhab Kumar Sen	Czech University of Life Sciences – Ph. D.
3	Sangita Patra	RKMVERI – Ph. D.

DETAILS OF STUDENTS PLACED:

Sl. No.	Name of the student	Organisation / Company where placed
1	Madhurima Dutta	Tata Institute of Social Science
2	Nandan Manna	Pan Seeds Pvt. Ltd.
3	Sovan Das	Ingreens Pvt. Ltd.
4	Sharmili Roy	National Innovation Foundation- India

5	Sonali Banerjee	Tata Institute of Social Science
6	Arpita Ghosh	Project Assistant at CRIJAF, Barackpur
7	Srija Chakraborty	Project Assistant at IISER, Kolkata
8	Suvarshi Dutta	Project Assistant at ISI, Kolkata
9	Kotra Vashista	Assistant Farm Manager at Dannis Turner Farm
10	Ahindrila Chakraborty	Switchon
11	Ananda Kumar Baidya	Pan Seeds Pvt. Ltd.
12	Arkendu Das	Literacy India
13	Arpan Adhikary	Peak Chemical Industries Ltd.
14	Ayantika Chakraborty	IIMPACT
15	Mainak Brahmachari	ATMA, Murshidabad
16	Manidipa Dey	Switchon
17	Megha Roy	BITAN
18	NamrotaAnzum Mondal	Antaral, Jharkhand
19	Nilanjan Maity	BAYER Crop Science
20	Rumela Kundu	Child In Need Institute, Urban Unit
21	Shalini Chakraborty	Rupantaran
22	Sharmistha Roy Pratihari	Results Track
23	Soumesh Ghosh	NIRDPR – NERC
24	Suparna Ash	Unheard
25	Surajit Sarkar	WBADMI
26	Swetabja Patranabish	Literacy India

27	Diya Kundu	Child InNeed Institute
28	Rajkumar Das	West Bengal Accelerated Development of Minor Irrigation Project
29	Sanchayeeta Misra	Assistant Professor, IRDM Faculty Centre, RKMVERI
30	Sudarshan Biswas	Assistant Professor, IRTDM Faculty Centre, RKMVERI
31	Lucina Yeasmin	Research Associate at the Institute of Life Sciences, Bhubaneswar

IRTDM

DETAILS OF STUDENTS PLACED:

Sl. No.	Name of the student	Organisation / Company where placed
1	Arnab Adhikari	CINI, Jharkhand
2	Ramjeewan Mahto	CINI, Jharkhand
3	Alina Tigga	CINI, Jharkhand
4	Monojit Das	NEEDS, Deoghar, Jharkhand
5	Kalyani Singh	NEEDS
6	Dhanraj Munda	NEEDS
7	Lovely Kumari	Nature

FAR**PLACEMENT DETAILS:**

Sl. No.	Company	Students placed
1	M/s. Green Tech Bio (P), Ltd, Chennai	40
2	M/s. SathyamTech Bio (P), Ltd, Pollachi	14
3	M/s. Virbac Animal Health (P) Ltd, Coimbatore	4
	Total	58

GAPEY**PLACEMENT DETAILS:**

Sl. No.	Company	Students placed
1	The Sports Gurukul	18
2	The Rite Stride	16
3	WSS Sports and Entertainment	10
4	Sporty Beans	4
5	Catch Sports	5
	Total	53

PARTICIPATION DETAILS IN COMPETITIONS, CULTURAL EVENTS ETC

Sanskrit and Philosophy

Sl. No.	Name of the Competition	Name of the Participating Students	Prize Won
1.	Sanskrit Elocution on Swami Vivekananda in RKMIC, Golpark on 15 th Nov 2018	Pritam Bera	First
		Subhankar Das	Second
		Subhadeep Das	Third
2.	State Level All India Elocution Contest and Shalaka Pariksha (Organised by Rashtirya Sanskrit Sansthan, Kolkata), on 21 st & 22 nd Nov 2018	Amit Kumar Gorai	First in Aksharashloki
		Chandan Mukherjee	Second in Samasyapurti
		Manamoy Manna	First in Vedanta-bhashanam
		Rajesh Adhikari	First in Vedanta-shalaka
		Rajib Dandapat	Third in Bauddha-darshana-bhashanam
		Rajkumar Mondal	Third in Sankhyayoga-bhashanam
		Shanti Ghosh	Third in Shastriya-sphurti
		Shubhadip Pal	First in Mimamsa-bhashanam
		Shubhankar Barman	First in Jyautisha-bhashanam
		Shubhankar Das	First in Samasyapurti Second in Aksharashloki & Third in Shastriya-sphurti
		Uttam Ghosh	First in Vedabhashya-bhashanam & Third in Samasyapurti

3.	National Level All India Elocution Contest and Shalaka Pariksha (Organised by Rashtirya Sanskrit Sansthan, Agartala), from 6 th to 9 th Jan 2019	Rajesh Adhikari	Second in Vedanta-shalaka
		Saikat Mohanta	Second in Vyakarana-shalaka
4.	Akhila Bharatiya Samskrita Chhatra Pratibha Samaroha, organised by the Vagvardhini Parishad of Rashtriya Sanskrit Vidyapeetha, Tirupati from 4 th to 7 th Feb 2019	Subhadeep Das	Gold medal in Nyaya-bhashanam
		Subhankar Das	Bronze medal in Vedanta-bhashanam
		Shanti Ghosh	Bronze medal in Quiz
		Rajkumar Mondal	Bronze medal in Quiz

FDMSE

PARTICIPATION IN CULTURAL EVENTS

- ✓ Swami Vivekananda Chicago Address Recitation Competition was conducted by Ramakrishna Mission Vidyalaya, Coimbatore on 25.08.2018. The details of the winners are as follows:

College Level Tamil			
Sl. No.	Name of Student	Course	Position
1	Deepika A	Integrated B.Ed.-M.Ed. (ID) II Year	I
2	Tamilmani P	B.Ed. (VI) - I Year	II
3	Aswathi B	B.Ed. (MR) - II Year	III
College Level English			
1	Roopavathy S	M.Ed. (MR) – I Year	I

- ✓ Ms. Aswathi, II year - B.Ed Special Education (MR) gave a talk on “Ramakrishnarin Devi Vazhipadu” on 9 October 2018 during Kalaimagahal Vizha.

- ✓ Eighteen I year B.Ed Special Education students performed a dance drama on “Mahishasuravadham” on 11 October 2018 during Kalaimagahal Vizha.

- ✓ Details of students’ participation in literary competitions – 2019 held at at RKMV CAS (SF) on 20.09.2018 in connection with Gurupuja:

Sl. No.	Name	Programme	Competition	Position
1	K.S. Pemina	II Year - Integrated B.Ed.-M.Ed. (ID)	Tamil Essay	I
2	B. Mrudhula	II Year - Integrated B.Ed.-M.Ed. (ID)	Tamil Speech	II
3	N. Uma Maheswari	I Year – M.Ed Spl. Education (MR)	English Essay	II
4	Damsi Viviana	II Year - B.Ed Spl.Edn (MR)	Tamil Poem	III

PARTICIPATION IN CELEBRATIONS AND OTHER EVENTS

- ✓ Autism Awareness Day was observed on 2nd April, 2018. Special talk and adapted games were organised. Posters were displayed depicting important information on autism. In total 55 children with disabilities, parents, trainee teachers, and faculty members attended the programme. Swami Atmapriyanandaji Maharaj, Vice Chancellor of RKMVERI, was the chief guest. Teacher trainees who won in various sports and cultural events were felicitated. Teacher trainees and students of various therapy units presented various cultural programmes.
- ✓ Independence Day was celebrated at the FDMSE on 15 August 2018. Various cultural events were organised including speech, group songs and dance.
- ✓ Teachers Day was celebrated on 5th September, 2018. Students presented various programmes.
- ✓ Saraswathi puja was celebrated on 17 October 2018.
- ✓ International Day of Persons with Disabilities was observed on 08 December 2018 at GKD Auditorium. Various cultural events were performed by the students with disabilities. Persons with disabilities who are studying and working in Vidyalaya institutions were honored with gifts.

- ✓ Republic Day - Teacher trainees of FDMSE participated in the 70th Republic Day parade which was held at Maruthi College ground on 26th January 2019. In continuation to that Republic Day celebration was organized at FDMSE.
- ✓ Maha Shivaratri was celebrated at FDMSE on 4 February 2019. All the teacher trainees and staff of FDMSE attended the function.
- ✓ Staff and students of FDMSE participated in Sri Ramakrishna Jayanti celebration at Vidyalaya Temple on 8 March 2019.

FAR

Sl. No.	Programme	Details
1	Competitions	Kalaimagal Vizha - Elocution Competition (2 Students Participated)
		Celebration of 125 th Anniversary of Swami Vivekananda's Chicago Address - Speech Competition (6 Students Participated)
2	Sports	SPORNG 2019 - Sports Meet (35 Students Participated)
3	Cultural Events	ENTHUZIA-2019 programme at S. Thangapazham Agricultural College, Vasudevanallur- Mime competition (8 Students Participated)
4	Participation in Celebrations	Yoga Day Celebration- 61 Students
		Youth Rally - 60 Students
		Annual Day Celebration –240 Students
		Independence Day Celebrations – 240 Students
		Horticulture Exhibition during Guru Pooja – 240 Students

DETAILS RELATING TO PH. D. SCHOLARS DURING THE YEAR

Physics

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Indrajit Mondal	Prof. Debashis Gangopadhyay
2	Suchetan Das	Prof. Bobby Ezhuthachan
3	Debraj Das	Prof. Shamik Gupta
4	Anirban Chatterjee	Prof. Abhijit Bandyopadhyay

OTHER INFORMATION:

Arka Moulik (Ph. D. student of Prof Abhijit Bandyopadhyay) submitted his Ph. D. thesis in October 2018.

Aloke Kumar Sinha (Ph. D. student of Parthasarathi Majumdar) submitted his Ph. D. thesis in October 2018.

Computer Science

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Suvam Kr. Das	Prof. Aditya Bagchi
2	Pritam Bhattacharya	Prof. Subir Kumar Ghosh
3	Subhajit Indra	Prof. Subir Kumar Ghosh

Sports Science and Yoga

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Ankur Biswas	Prof. Asok Ghosh and Prof. Rupayan Bhattacharya
2	Bankim Biswas	Prof. Asis Goswami and Prof. Subhankar Ghosh
3	Gopinath Bhowmik Bhunia	Prof. Uday Shankar Ray
4	Subhashis Biswas	Prof. Asis Goswami and Prof. Subhankar Ghosh

Mathematics

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Soumendu Nandy	Prof. Sukumar D Adhikari and Dr. Ashish Gupta
2	Dwaipayan Mazumder	Stephan Baier
3	Bikramjit Kundu	Arindam Banerjee

Sanskrit and Philosophy

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Malay Porey	Dr. Gopikrishnan Reghu
2	Sibsankar Karan	Dr. Gopikrishnan Reghu
3	Sumanta Choudhury	Dr. Gopikrishnan Reghu
4	Amit Kumar Dey	Dr. Venkataramana Bhat
5	Joydeb Dinda	Dr. Rakesh Das

6	Nityananda Manna	Dr. Rakesh Das
7	Srimanta Bhadra	Dr. Rakesh Das
8	Sudip Mondal	Dr. Rakesh Das
9	Sujit Paramanik	Dr. Venkataramana Bhat
10	Binod K.	Dr. Nagaraja Bhat
11	Bishnu Pada Pal	Dr. Neeraj Kumar Bhargave
12	Kartik Mete	Dr. Nagaraja Bhat
13	Sanatan Das	Dr. Venkataramana Bhat
14	Sujit Maiti	Dr. Rakesh Das
15	Sukanta Manna	Dr. Gopikrishnan Reghu
16	Tridib Roy Mondal	Dr. Venkataramana Bhat

IRDM

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Debarshi Basu	Dr. Dinendra Raychaudhuri
2	Jayashree Sen	Dr. Pranab Kumar Nag
3	Tandra Mandal	Dr. Pranab Kumar Nag
4	Shatabdi Saha	Dr. Rupak Goswami
5	Vibha Singh	Dr. Md. Nasim Ali
6	Bhaswati Ghosh	Dr. Tapash Dasgupta
7	Shibasis Mukherjee	Dr. Gautam Chatterjee
8	Argha Chakraborty	Dr. Gautam Chatterjee
9	Adrija Banerjee	Dr. Kishor Kumar
10	Anirneeta De	Dr. Tapash Dasgupta
11	Mahadeb Bera	Dr. Pranab Kumar Nag
12	Sangita Patra	Dr. Rupak Goswami

IRTDM

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Koustab Majumdar	Dr. Dipankar Chatterjee
2	Manoj Raul	Dr. Dipankar Chatterjee
3	Suresh Kumar Mahto	Dr. Avijit Kr. Dutta

GAPEY

S. No.	Name of current Ph. D. scholars	Name of Supervisor
1	Raghul. K	Dr. Dibakar Debnath
2	Biswanath Biswas	Dr. S. Alagesan
3	Gollapothu Nageswara Rao	Dr. P. J. Sebastian
4	Vavileti Balaji	Dr. Amirtham Sebastian

FDMSE**DOCTORAL COMMITTEE MEETING**

- ✓ Pre-Ph.D. presentation of Mr. Tameem Yahya Ali Mohammed and Doctoral Committee meeting for Integrated M.Phil. Ph.D., scholars Mr. J. Gangadhara Rao and Ms. Amani Al-Ghashani were held on 13 April 2018 at RKMVERI-FDMSE.
- ✓ Doctoral Committee meeting for Integrated M.Phil. Ph.D., scholars Mr. Som Krishan and Mr. Maged Al-Rafi was held on 17 April 2018 at RKMVERI-FDMSE.
- ✓ The Doctoral Committee Meeting was held for two Ph.D. Scholars, Ms. Nandita Chakraborty and Ms. Sampurna Guha on 30 October 2018.

DETAILS OF PUBLICATIONS DURING THE YEAR

Physics

Dr. Sanjoy Biswas, -*"Beyond the Standard Model Physics at the HL-LHC and HE-LHC"*, Report from Working Group 3 on the Physics of the HL-LHC, and Perspectives at the HE-LHC, CERN-LPCC-2018-05.

BOOK: Statistical Physics of Synchronization; Authors: Gupta, Shamik, Campa, Alessandro, Ruffo, Stefano; Publisher: Springer, Germany; ISBN: 978-3-319-96664-9

JOURNALS:

- ✓ Suchetan Das, Comments on spinning OPE blocks in AdS₃/CFT₂, (Published in Physics Letters B, Volume 792, 10 May 2019, Pages 397-405).
- ✓ Bobby Ezhuthachan and Suchetan Das, Modular Hamiltonians and Large Diffeomorphisms in AdS₃, [Published in JHEP 1812 (2018) 096)].
- ✓ Abhijit Bandyopadhyay and Anirban Chatterjee, Diffusive dark matter and dark energy scenario and k-essence in the context of Supernova Ia observations, [Published in Eur. Phys. J. Plus (2019)134: 174]
- ✓ David Métivier and Shamik Gupta, Bifurcations in the time-delayed Kuramoto model of coupled oscillators: Exact results, J. Stat. Phys. (2019) (Online First); arXiv: 1808.10436
- ✓ Debraj Das, Sayan Roy and Shamik Gupta, Reconstructing bifurcation behavior of a nonlinear dynamical system by introducing weak noise, Commun Nonlinear Sci Numer Simulat 72, 575 (2019);
- ✓ Luca Giuggioli, Shamik Gupta and Matt Chase, Comparison of two models of tethered motion, J. Phys. A: Math. Theor. 52, 075001 (2019); arXiv: 1901.03033
- ✓ Romain Bachelard, Nicola Piovella and Shamik Gupta, Slow dynamics and subdiffusion in a non-Hamiltonian system with long-range forces, Phys. Rev. E 99, 010104(R) (2019);

- ✓ Raphael Chetrite, Shamik Gupta, Izaak Neri and Édgar Roldán, Martingale theory for housekeeping heat, EPL 124, 60006 (2018);
- ✓ Debraj Das and Shamik Gupta, Exact correlations in the nonequilibrium stationary state of the noisy Kuramoto model, J. Phys. A: Math. Theor. 51, 445003 (2018);
- ✓ Stefano Gherardini, Shamik Gupta and Stefano Ruffo, Spontaneous synchronization and nonequilibrium statistical mechanics of coupled phase oscillators, Contemporary Physics 59, 229 (2018);
- ✓ Pierfrancesco Di Cintio, Shamik Gupta and Lapo Casetti, Dynamical origin of non-thermal states in galactic filaments, Mon. Notices Royal Astron. Soc. 475, 1137 (2018);
- ✓ Evidence of Nodal Line in the Superconducting Gap Symmetry of Noncentrosymmetric ThCoC, A Bhattacharyya et al, Physical Review Letters 122, 147001 (2019)
- ✓ Probing the superconducting ground state of ZrIrSi: A SR study, A Bhattacharyya et al, Physical Review B (2019)
- ✓ Unveiling spin-glass transition and long range antiferromagnetic order by μ SR studies in spin-chain $\text{Sm}_2\text{BaNiO}_5$, A Bhattacharyya et al, Journal of Physics: Condensed Matter 31, 165801 (2019)
- ✓ Unconventional superconductivity in the cage type compound ScRhSn , A Bhattacharyya et al, Physical Review B 98, 024511 (2018)
- ✓ Multigap Superconductivity in a charge density wave superconductor LaPt_2Si_2 , A Bhattacharyya et al, Physical Review B 97, 184509 (2018)
- ✓ Magnetic structure and field-dependent magnetic phase diagram of Ni₂In-type PrCuSi , A Bhattacharyya et al, Journal of Physics: Condensed Matter 30 435803 (2018)

- ✓ A brief review on μ SR studies of unconventional Fe and Cr-based superconductors, A Bhattacharyya et al, Science China Physics, Mechanics & Astronomy, 61(12), 127402 (2018)

Computer Science

JOURNALS:

Tim Guetterman, Tammy Chang, Melissa DeJonckheere, Tanmay Basu, Elizabeth Scrubs and VG Vinod Vydiswaran. *Augmenting Qualitative Text Analysis with Natural Language Processing: Methodological Study*. Journal of Medical Internet Research, vol. 20(6):e231, doi: 10.2196/jmir.9702, 2018. Impact Factor: 4.67

CONFERENCE PUBLICATIONS:

1. Sayanta Paul, Sree Kalyani Jandhyala and Tanmay Basu. *Early Detection of Signs of Anorexia and Depression over Social Media using Effective Machine Learning frameworks*, published in Proceedings of CLEF 2018 Working Notes, Avignon, France.
2. Avideep Mukherjee and Tanmay Basu. *An Effective Nearest Neighbor Classification Technique Using Medoid Based Weighting Scheme*, published in Proceedings of the Fourteenth International Conference on Data Science, pp. 231-234, Las Vegas, USA, 2018.
3. Ritam Majumder and Tanmay Basu. *Towards Developing Effective Machine Learning Frameworks to Identify Toxic Conversations Over Social Media*, published in Proceedings of the Fourteenth International Conference on Data Science, pp. 239-240, Las Vegas, USA, 2018.
4. Anurag Banerjee and Tanmay Basu. *Yet Another Weighting Scheme for Collaborative Filtering Towards Effective Movie Recommendation*, published in Proceedings of the Fourteenth International Conference on Data Science, pp. 237-238, Las Vegas, USA, 2018.
5. Arnab Roy and Tanmay Basu. *Effective Grouping of Unlabeled Texts using A New Similarity Measure for Spectral Clustering*, published in Proceedings of the Fourteenth International Conference on Data Science, pp. 181- 184, Las Vegas, USA, 2018.
6. Shubhaditya Goswami, Sukanya Pal, Simon Goldsworthy and Tanmay Basu. *An Effective Machine Learning Framework for Data Elements Extraction from the Literature of Anxiety Outcome Measures to Build Systematic Review*, accepted for publication in Proceedings of Business Information Systems, Sevilla, Spain, 2019.

7. Ajit Diwan (IIT Bombay), Bodhayan Roy (IIT Kharagpur) and Subir Kumar Ghosh (RKMVERI) *Drawing Bipartite Graphs in Two Layers with Specified Crossings* Proceedings of the 5th Annual International Conference on Algorithms and Discrete Applied Mathematics (CALDAM 2019), IIT Kharagpur, LNCS, vol. 11394, Springer, 2019.
8. Carlos Alegría (UNAM Mexico), Pritam Bhattacharya (IIT Kharagpur), and Subir Kumar Ghosh (RKMVERI), *A $1/4$ -Approximation Algorithm for the Maximum Hidden Vertex Set Problem in Simple Polygons* Proceedings of the 35th European Workshop on Computational Geometry, Utrecht, the Netherlands, 2019.
9. Dibyayan Chakraborty, Sandip Das, Mathew C. Francis, and Sagnik Sen: *On Rectangle Intersection Graphs with Stab Number at Most Two*. Conference on Algorithms and Discrete Applied Mathematics-2019
10. Sandip Das, Soumen Nandi, Sagnik Sen and Ritesh Seth: *The Relative Signed Clique Number of Planar Graphs is 8*. Conference on Algorithms and Discrete Applied Mathematics-2019.

Sports Science and Yoga

JOURNALS:

- i) Prasad, T., Goswami, A., Ghosh, S. (2019). Walking Pattern of Sighted Volunteers with Open Eye and Closed Eye Conditions, Journal of Disability Management and Special Education (JODYE). (Accepted for publication).
- ii) Prasad, T., Ghosh, S., Goswami, A. (2018). Static Balance Ability of Visually Impaired and Partially Sighted Persons on Firm and Foam Surfaces, European Journal of Adapted Physical Activity. (Under Review).

PAPERS:

- a) Shubhashis Biswas, a Ph. D. Scholar presented a paper in an International Seminar on *Futuristic Trends in Health, Physical Education and Sports*, organized by Sports Department, Mizoram University.
- b) A paper jointly authored by T. Prasad, S. Ghosh, and A. Goswami on 'Static Balance Ability in Blind Persons' was presented in the National Conference on "Physical Education, Sports Science & Active Lifestyle" Organized by Department of Physical Education, Savitribai Phule Pune University, Pune.

JOURNALS:

- Dr. Sagnik Chakraborty published ‘Everywhere vanishing polynomial functions’ in the Journal of Algebra and its Applications in February, 2019.
- Dr. Ashish Gupta’s joint article “A Dichotomy for the Gelfand–Kirillov Dimensions of Simple Modules over Simple Differential Rings” with a student A. D. Sarkar appeared in Algebras and Representation Theory June 2018, Volume 21, Issue 3, pp 579–587
- S. D. Adhikari (RKMVERI), L. Boza, S. Eliahou, M. Revuelta and M. Sanz) on the degree of regularity of a certain quadratic Diophantine equation European J. Combin. Vol. 70, 50–60 (2018)
- Sukumar D. Adhikari (RKMVERI), L. Boza, S. Eliahou, M. Revuelta and M. Sanz) Equation-regular sets and the Fox-Kleitman conjecture Discrete Mathematics, Vol. 341, 287–298 (2018).
- Sukumar D. Adhikari (RKMVERI), R. Balasubramanian, S. Eliahou and D. Grynkiewicz) on the degree of regularity of a particular linear equation, to appear in Acta Arithmetica.
- Sukumar D. Adhikari (RKMVERI), L. Boza, S. Eliahou, M. P. Revuelta, M. I. Sanz) Numerical semigroups of Szemerédi type, to appear Discrete Applied Mathematics.
- Sukumar D. Adhikari (RKMVERI), S. Eliahou, On a conjecture of Fox and Kleitman on the degree of regularity of a certain linear equation Combinatorial and Additive Number Theory II, 1-8, Springer Proc. Math. Stat., 220, Springer, Cham, 2017.
- Sukumar D. Adhikari (RKMVERI), Plus-minus weighted zero-sum constants: A survey Analytic Number Theory, Modular Forms and q -Hypergeometric Series, 1-9, Springer Proc. Math. Stat., 221, Springer, Cham, 2017.
- Stephan Baier (RKMVERI), Arpit Bansal (JNU Delhi), Rajneesh Kumar Singh (RKMVERI); "Divisibility problems for function fields", to appear in Acta Mathematica Hungarica, arXiv: 1803.07457

- Stephan Baier (RKMVERI), Arpit Bansal (JNU Delhi); "The large sieve with power moduli for $\mathbb{Z}[i]$ ", to appear in International Journal of Number Theory, arXiv: 1802.08964
- Stephan Baier (RKMVERI), Vijay Patankar (JNU Delhi); "Applications of the square sieve to a conjecture of Lang and Trotter for a pair of elliptic curves over the rationals"
- S. Baier, R.K. Singh, Large sieve inequality with power moduli for function fields, Journal of Number Theory, 196, 1–13, 2019.
- Dripta Mj. (RKMVERI), Michael Osborne and Thomas Adcock, Prediction of tidal currents using Bayesian machine learning, Ocean Engineering, 158 (221-231), 2018
- Dripta Mj. (RKMVERI), Sarkar D., Osborne M.A. and Adcock T.A.A. (2019). Spatiotemporal prediction of tidal currents using Gaussian processes. Journal of Geophysical Research: Oceans, 124. <https://doi.org/10.1029/2018JC014471>
- U. Hartl, R.K. Singh (RKMVERI), Local shtukas and divisible local Anderson modules, Canadian Journal of Mathematics, 2019.
- U. Hartl, R.K. Singh (RKMVERI), Periods of Drinfeld modules and local shtukas with complex multiplication, Journal of the Institute of Mathematics of Jussieu, 1–34, 2018.
- Arindam Banerjee (RKMVERI), Vivek Mukundan Homological Invariants of Unmixed Bipartite Graphs, Journal of Algebra and its Application
- Arindam Banerjee (RKMVERI), Selvu Bayerslan and Huy Tai Ha Regularity of Edge ideals and Their Powers: A Survey. Joint with, Springer Proceedings in Mathematics and Statistics.

Sanskrit and Philosophy

JOURNALS:

Name of the Faculty	Title of the paper	Journal
Dr. Rakesh Das	Rāmarājya: An Appraisal	Sanskrit-Vāṇmayī
	Lexicon for Children's Literature in Samskrita	Prajñāloka

ARTICLES / CHAPTERS PUBLISHED IN BOOKS:

Name of the Faculty	Title of the article	Book Title	Editor & publisher
Dr. Rakesh Das	श्रीरामकृष्णस्य भावमुखस्थितिः- वेदान्ते काचिद्विशिष्टा दृष्टिः	State, Society And Literature : Ideas At Crossroad	Bhattacharya, Sourabodhi & Karmakar, Abhisek, The Dhaka Students Library, Kolkata
	धर्मराज्यप्रतिष्ठात्री कुन्ती	Women in Ancient India : Myriad Voices	Gupta, Mau Das, Sanskrit Pustak Bhandar, 38, Bidhan Sarani, Kolkata 6

BOOKS EDITED:

Name of the faculty	Title	Publisher	ISBN
Dr. Rakesh Das	चिपिटकचर्वणम् (Cipitakacarvaṇam) (A farce in Samskrita written by Srijiya Nyayatirtha)	BN Publications, Midnapore in 2019	978-81-930415-0-5

JOURNALS:

Sl. No.	Student Name	Title of the paper	Journal
1	Amit Kumar Dey	आकाशस्य नित्यत्वानित्यत्वविचारः	वेदाञ्जलिः
		ब्रह्मलक्षणविचारः	शब्दार्णवः
		उपनिषत्सु अमृतस्वरूपम्	प्रज्ञाप्रभा
2	Joydeb Dinda	भाष्यार्थप्रदीपकौ प्रदीपोद्योतौ	शोधनिधिः
		धातूनामनुबन्धविचारः	प्रज्ञालोकः
3	Kartik Mete	मधुविद्या	प्राचीप्रज्ञा
		क्रममुक्तेः तत्त्वविचारः	प्रज्ञाप्रभा
4	Sukanta Manna	ई च खनः इत्यत्र ईपदप्रयोजनविचारः	प्रज्ञाप्रभा

JOURNALS:

1. Mondal, T. and Nag, P. K. (2018). Work Practices in Small and Marginal Farm Holdings: An Ergonomics Analysis. *Ergonomics International Journal*, 2(9), 180.
2. Sen, J., and Nag, P.K. (2019). Human Susceptibility to Outdoor Hot Environment. *Science of the Total Environment*, 649, 866-875.
3. Mondal T and Nag, P.K. (2018). Human Energy Utilization and Effectiveness in small and Marginal farm Holdings. *International Journal of Research Granthaalayah*. 6(11): 163-171.
4. Spider Fauna of Meghalaya, India. Proc. Nat Sem. Barasat Government College, 2017, *World Scientific News*, 71: 104-127 (with T.K.Roy and S. Saha) [ISBN 978-83-947896-2-6; ISSN 2392-2192].
5. Pandey, S. K., Dasgupta, T., Rathore, A., and Vemula, A. (2018). Relationship of Parental Genetic Distance with Heterosis and Specific Combining Ability in Sesame (*Sesamum indicum* L.) Based on Phenotypic and Molecular Marker Analysis. *Biochemical Genetics (Springer)*, 1-22.
6. A. Iqbal, U Bhattacharjee, R. Akhtar and T. Dasgupta. 2018. Genetic diversity computation in sesame genotypes using morphological traits and genic SSR markers. *Indian Journal of Genetics*. 78(3): 348-356. DOI: doi.org/10.31742/IJGPB.78.3.12.
7. Maini Bhattacharjee, S. H. Prakash, Souvik Roy, Tamina Begum and Tapash Dasgupta. 2018. DNA Fingerprinting of CUMS 17 (Suprava): A Newly Developed Variety of Sesame. *International Journal of Pure and Applied Bioscience* 6 (5): 161-166.
8. Goswami, R., Misra, S., Mondal, T., & Jana, R. (2018). Social network analysis in the context of community response to disaster. *SAGE Research Methods Cases*, Sage, UK.
9. Salma, U., Kundu, S., Hazra, A. K., Ali, M. N., & Mandal, N. (2018). Augmentation of wedelolactone through in vitro tetraploid induction in *Eclipta Alba* (L.) Hassk. *Plant Cell, Tissue and Organ Culture (PCTOC)*. <https://doi.org/10.1007/s11240-018-1381-1>

- 10.** Hazra, A. K., Sur, T. K., Chakraborty, B., & Seal, T. (2018). HPLC analysis of phenolic acids and antioxidant activity of some classical ayurvedic guggulu formulations. *Int. J. Res. Ayurveda Pharm.* 9 (1).
- 11.** Ghosh S., Chatterjee J.K., Hazra A.K., Chakraborty B., Total Phenolic, Flavonoid, beta-Carotene and in-vitro Antioxidant Activity of Vegetable Wastes Collected from Hotels and Food Processing Centre. *Food Science Research Journal*, (2018), 9, 169-174. (April 2018)
- 12.** Kundu S, Salma U, Ali MD, Hazra AK, Mandal N., Development of transgenic hairy roots and augmentation of secondary metabolites by precursor feeding in *Sphagneticolacalendulacea* (L.) Pruski. *Industrial Crops & Products*, (2018), 121, 206–215. (May 2018)
- 13.** Adhikari, A., Ray, M., Sur, T. K., Biswas, S, Roy, R. K., Hazra, A. K. and Das, A. K. (2018). Anti-Diabetic Activity of *Rhizophora Mucronata* Leaves in Streptozotocin-Nicotinamide Induced Animal Model. *The Journal of Middle East and North Africa Sciences*, 4(8), 1-7.
- 14.** Hazra A. K., Pal A. and Sur T. K. (2018) Assessment of Reserpine Content by HPTLC in Some Ayurvedic Formulations Containing Sarpagandha (*Rauwolfia Serpentina*). *International Journal of Current Medical and Pharmaceutical Research*. DOI: <http://dx.doi.org/10.24327/23956429.ijcmpr20180549>
- 15.** Hazra A. K., Chakraborty B., Mitra A., Sur T. K. (2018). A rapid HPTLC method to estimate piperine in Ayurvedic formulations containing plant ingredients of Piperaceae family, *Journal of Ayurveda and Integrative Medicine*.
- 16.** Mondal S., Santra S., Ali M. N., Mandal S., Mukherjee R., Adhikari A., Chatterjee A. Salivary VECF Potential Breast Cancer Marker. *Cancer and Clinical Oncology*. 7(2): 2018
- 17.** Mondal S., Bardhan K., Dutta A., Chatterjee A. Identification of Vertebrate MMP-2 and MMP-9 like molecules in the aqueous extract of *Nasturtium (Tropaeolum majus)* flowers, *Bambusa balcoa* leaves and *Nayantara (Catharanthus roseus)* flowers. *J Tumor*. 6(1): 2018.
- 18.** Nag, P. K. *Office Buildings: Health, Safety and Environment*. (2019). Design Sign and Innovation. Springer.
- 19.** Sen, J., and Nag, P.K. (2019). Effectiveness of human-thermal indices: Spatio-temporal trend of human warmth in tropical India. *Urban Climate*. 27: 351-371.

20. Iqbal A., Pati P.K., Akhtar R., Begum T., and Dasgupta T. (2018). Diversity in sesame accessions. *International J Agriculture, Environment and Biotechnology*. 11(5): 725-731.
21. Das A., Pandey S.K., Bhattacharjee P., Dasgupta T. (2018). Characterization of some Indian sesame cultivars through soluble and storage protein markers. *J Experimental Biology and Agricultural Sciences*. 6(1): 243-248.

IRTDM

JOURNALS:

1. Mahto, S. K. and Dutta, A. K. (2018). Influence of different low-cost organic inputs on growth, yield and quality of French bean (*Phaseolus vulgaris* L.) cv. Swarna Priya. *Indian Journal of Agricultural Research*, 52(6): 661-665.
2. Dutta, A. K.; Majee, S. K. and Das, R. (2018). Effect of BD-501 and Panchagavya on Yield and Quality of Garden Pea cv. Arkel. *International Journal of Latest Engineering and Management Research*, 3(2): 50-53.
3. Mondal, S. and Dutta, A. K. (2018). Performance of kharif potato Cv. Kufri Pukhraj Grown through Organic Farming in Chhota Nagpur Plateau. In: Zaman, A. and Maitra, S. (Eds.), *Cutting Edge Technology for Agricultural Sustainability* published by New India Publishing Agency, Pitam Pura, New Delhi 110 034, India. pp. 365-371. [ISBN: 978-93-87973-28-2]
4. Chatterjee, S.; Dutta, A. K.; Swami, B. and Das, P. (2018). Influence of Sasyagavya on Growth, Yield and Quality Attributes of Cabbage and Bio-Chemical Properties of Soils of the Experimental Site. In: Zaman, A. and Maitra, S. (Eds.), *Cutting Edge Technology for Agricultural Sustainability* published by New India Publishing Agency, Pitam Pura, New Delhi 110 034, India. pp. 407-415. [ISBN: 978-93-87973-28-2]
5. Khanra, P and Mukherjee, D.N. 2018. Potentiality of beekeeping in doubling farmers' income in Jharkhand. A way to sweet revolution. *International Journal of Agriculture Sciences*.
6. Sengupta, A. and Kumar. R. (2018) Cultivation of Organic Tomato (*Lycopersicum esculentum*) through Adaptive Trial *Int.J.Curr.Microbiol.App.Sci* Special Issue-7: 1308-1312 ISSN: 2319-7706

7. Khan, A. and Sengupta, A. (2018) An economic analysis on Integrated Farming System Model of Burakocha village in Angara block of Ranchi district, Jharkhand, *International Journal for Scientific Research & Development* Vol. 6, Issue 7 ISSN:2321-0613

FDMSE

PAPERS:

Sl. No.	Name	Title of the paper	Journal
1	Dr. J. B. Dheesha & Dr. S. Parween	Employment Opportunities among Women with Disabilities-Current Indian Scenario	Disabilities and Impairment
2	Dr. J. B. Dheesha	Performance of Students with Visual Impairment in Doing Science Experiments	Journal of Contemporary Educational Research and Innovations
3	Dr. Saumya Chandra	Status of Women with Disabilities in Uttar Pradesh in the backdrop of CEDAW	Disabilities and Impairment
		Arun's Story: A Co-morbid condition of Learning Disability with Bipolar Disorder	Research Journal of Humanities & Social Sciences.
		The significance of Assistive Technology in Inclusive Education: Creating scope for Person with Disabilities	International Journal of Advance Research, Ideas and Innovations in Technology
5	Ms. Nandita Chakrabarty, Ph.D. Scholar & Dr. Sudha A.	Understanding Autism Spectrum Disorder: A Survey Study Among Rehabilitation Professionals.	Global Journal for Research Analysis

6	Dr. S. Parween & Dr. J. B. Dheesha	Curriculum for Students with Visual Impairment in Inclusive Setup	Inclusive Education for Persons with Disabilities A Methodical Guide Book (Edited Book)
7	Dr. Sudha A.	Alternative Assessment and Evaluation	Inclusive Education for Persons with Disabilities A Methodical Guide Book (Edited Book)
8	Dr. Saumya Chandra	Curriculum for Children with Intellectual Disabilities in Inclusive Set Up	Inclusive Education for Persons with Disabilities A Methodical Guide Book (Edited Book)
9	Mrs. S. N. Hamsapriya	Curriculum Adaptation for Children with Hearing Impairment to Ensure Successful Inclusion	Inclusive Education for Persons with Disabilities A Methodical Guide Book (Edited Book)

FAR

PAPERS:

- ✓ Boopathi, G. E. Akila, S. Pugalendhi and P. Subramanian. 2019. Enhancing combustion properties of sugarcane trash briquettes using pyrolytic derived tyre char. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Boopathi, G. Pugalendhi, S., Subramanian, P., Manohar Jesudas, D. and Subramnaian, K.S. (2018). Performance Evaluation of Single PEM Fuel Cell (PEMFC) with Novel Bio-Degradable Polymer Membrane Based on Agar -Agar. *Environment and Ecology*, 37 (1A), 198-203.

- ✓ Chandraprakash, S. 2018. Management of bacterial leaf blight disease of rice (*Oryza sativa*) caused by *Xanthomonas oryzae* PV. *Oryzae* using bacteriophages. In: Proc. of National Conference on Livelihood and Food Security (LFS – 2018) at Bihar Animal Sciences University, Patna. 27th - 28th January 2018.
- ✓ Chandraprakash, S. 2019. K. Manonmani, N. Revathy and E. Kokiladevi. Assessment of pathogenicity of *Xanthomonas oryzae* PV. *Oryzae* in paddy. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Kasinathan, S. B. Karthikeyan, and M. Tilak. 2019. Analysis of microbial population and PGPR populations in rhizosphere soil of *coleus forskohlii* in Salem district. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st- 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Kaviarasu, A. And N. Selvaraj. 2019. Morphological performance on storage period of rooted cuttings of carnation under protected polyhouse condition in different var. Domingo, Baltico and Bizet. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Masanaselvam, T. 2018. Approximate controllability of second order neutral impulsive evolution differential inclusions of sobolev-type with nonlocal conditions. Intl. J. Mathematical Archive.
- ✓ Masanaselvam, T. S. R. Padma, E. Deepa and S. Janani. 2019. Knowledge, perception and adaptation strategies to climate change among farmers in Coimbatore district. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.

- ✓ Muthuraja, B. K.R. Karunakaran, S. Appasmandri and J. Ramesh. 2019. Estimation of technical, allocative and economic efficiency of major food crops in Tamil Nadu – a data envelopment analysis approach. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Prabakaran, M. K. Sivakumar, S. Radhakrishnan, M. Tilak and A. Balasubramininan. 2019. Analysis of physico chemical and chemical of soil in nursery irrigated with treated and untreated domestic sewage water. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Rajkumar, M. M. Meyyappan, M. Ganapathy and M.V. Sriramachandrasekharan. 2019. Suitable medium for sugarcane bud chip nursery. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Suresh Kumar, S. 2019. Genetics of low phytate in maize. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Suresh, S. 2019. New record of predatory mite genus *Raphignathus* (acari: prostigmata: raphignathidae) from coconut ecosystems in Tamil Nadu, India. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Vinoth Kumar, K. 2018. Bio-toxicity of materials at nanoscale level. Intl. J. Trend Scientific Res. Develop. 2 (4):823-827.
- ✓ Vinoth Kumar, K. 2018. Study on Medicinal Plant Extracts Mediated Synthesis of Silver Nanoparticles by their Reducing Potential. Intl. J. Sci. Adv. Res. Technol., 4 (5): 434-437.

- ✓ Vinoth Kumar, K. 2019. Phytotoxicity effect of metal oxide nanoparticles on growth parameters of maize and tomato. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.
- ✓ Vinoth Kumar, K. 2019. Study the effect of metal oxide (ZnO) nanoparticles on root anatomy of maize (*Zea mays*). Intl. J. Recent Scientific Research, 10 (3): 30693-30696.
- ✓ Yoganathan, G. and K.S. Subramanian. 2019. Self-life and characterization of EFF. In: Proc. of National Seminar on Current Trends and Challenges in Sustainable Agriculture during February 21st - 22nd at the Faculty Centre for Agricultural Research and Education, RKMVERI, Coimbatore.

GAPEY

BOOK:

Name of the author	Name of Book
Dr. M. Ramajayam	<i>Sports Psychology and Sports Sociology</i> Sports Publication, New Delhi -110002 ISBN No: 978-93-88269-18-6

PAPERS:

Dr. M. Ramajayam presented the following papers:

1. "Influence of Physical Exercise with and without Suryanamaskar Practices on Selected Psychological Variables of College Men", at a seminar organized by Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education entitled "Yoga for health and life style management" on 1st & 2nd March 2019.
2. "Examining the Hand Grip Strength of Paraplegic Men Cricketers of Tamil Nadu", at a seminar organized by Ramakrishna Mission Vivekananda Educational and Research Institute Jointly Organised by Faculty of General and Adapted Physical Education & Yoga and Faculty of Disability Management for Special Education entitled Global Trends in Assistive Technology and Adapted Sports on 15th & 16th March 2019.

PUBLICATIONS OF THE UNIVERESITY

List of books published till 31 March 2019

S. N.	Title	Language	Year
1	Human Development and its quantification: a holistic approach	English	July, 2009
2	Niḥsvārtha karma: bhitti, paddhati o siddhi	Bengali	July, 2006
3	Selfless work; its basis, methods and fulfilment	English	July, 2006
4	Nāgārjunakṛta – Savṛttiśūnyatāsaptatiḥ : bāṅglā bhāvānuvād o bhāgīrathī vyākhyā	Bengali	July, 2011
5	Sri Ramakrishna o Swami Vivekanander dārśanik bhāvana	Bengali	July, 2011
6	Vivekanandakāvyāmṛtam	Sanskrit	July, 2011
7	Unnayan – Sri Ramakrishna – Vivekanander nirdeśita path	Bengali	July, 2012
8	Advaita – Siddhānta – Sārasaṃgraha	Sanskrit	July, 2012
9	Ekāgratā o dhyān	Bengali	July, 2012
10	Dhyān : Yoga – vedānta dr̥ṣṭite	Bengali	July, 2013
11	Vivekdiśā Vijñānkathā	Bengali	July, 2014
12	Yoga Parichaya	Bengali	July, 2014
13	Itibācak abhibhāvakatva o bhālobese śīśuder śṛṅkhalā pratiṣṭhā	Bengali	Sep, 2014
14	Environmental concerns in ancient Indian texts	English	Sep, 2014
15	Alasinga Perumal : pratiśrutibaddhatā, ātmotsarga o pragāḍha gurubhaktir ek ananya gāthā	Bengali	Jan, 2015

16	RKMVU- Year Book: Academic audit report 2005-10	English	July, 2010
17	RKM: a saga of service for a hundred years and more	English	May, 2010
18	Sri Ramakrishna : nabayuger dharmasamsthapak	Bengali	July, 2015
19	Santwana	Bengali	July, 2015
20	Sahasranām	Bengali	July, 2015
21	Vivekdiśā Vijñānkathā	Bengali	July, 2015
22	Stotramala (Reprinted in July 2018)	Bengali	July, 2015
23	Srimat Swami Vivekananda Caritam	Sanskrit	July, 2015
24	Yogabhyas Prabesika	Bengali	July, 2015
25	For Enquirers About Ramakrishna Math & Ramakrishna Mission	Bengali	July, 2016
26	Moksa-Sadhana-Sutra-Sangraha	Sanskrit	July, 2016
27	Unnata Jiban Gathaner Upay (Key to Higher Life)	Bengali	July, 2016
28	Arthasamgraha	Bengali	July, 2016
29	Scriptural Foundations of Ramakrishna and Vivekananda	English	Feb, 2017
30	Vivekdisha Jiban-Vijnan-Kotha	Bengali	Mar, 2017
31	Prachin Bharoter Chotoder Golpo	Bengali	Aug, 2017
32	Paniniyatantre Asiddhatvatidesau	Sanskrit	Jan, 2018
33	Sri Ramakrishna Jivan Sudha	Bengali	Feb, 2018
34	Science – Philosophy – Spirituality Interface	English	July, 2018
35	Multi Religioous Prayer Book for Daily Devotional Practice	Bilingual	Mar, 2019

**DETAILS OF WORKSHOPS / SEMINARS / CONFERENCES / SYMPOSIUMS
ATTENDED DURING THE YEAR**

Physics

✓ Dr. Shamik Gupta attended following workshops/conferences:

- (a) January 2019: One day discussion meeting on random walks, RKMVERI, Belur, India (Organizer and speaker)
- (b) December 2018: Science Academies' Refresher Course on Statistical Physics, RKMVERI, Belur, India (Organizer and speaker)
- (c) October 2018: International Conference on Complex Dynamical Networks, Indian Statistical Institute, Kolkata, India (Invited Speaker)
- (d) September 2018: Stochastic Thermodynamics: Experiment and Theory, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany (Invited Speaker)
- (e) May 2018: Workshop on Long-range Interactions and Synchronization, International Centre for Theoretical Physics – South American Institute for Fundamental Research, São Paulo, Brazil (Organizer and speaker)
- (f) February, 2018: Driven Quantum Systems, Indian Association for the Cultivation of Science, Kolkata, India (Invited Speaker)

Scientific visits of Dr. Shamik Gupta

- (i) February 2019: SASTRA Deemed University, Thanjavur, India
- (ii) February 2019: Centre for Nonlinear Studies, Bharathidasan University, Tiruchirapally, India
- (iii) August-September 2018: Max Planck Institute for the Physics of Complex Systems, Dresden, Germany
- (iv) June 2018 Universidade Federal de São Carlos, São Carlos, Brazil
- (v) May 2018: International Centre for Theoretical Physics – South American Institute for Fundamental Research, São Paulo, Brazil

- ✓ Dr. Amitava Bhattacharyya attended National Conference on Quantum Condensed Matter, Chandigarh, India, in July 2019.
- ✓ Dr. Sanjoy Biswas attended National Physics Meet, 13-14 February, 2019, Department of Physics, University of Kalyani, Kalyani India.
- ✓ Suchetan Das, Ph. D. student of Dr Bobby Ezhuthachan, participated in the “Kavli Asian Winter School” (7th - 17th Jan, 2019)” held in Sogang University (South Korea). He presented a poster titled “Spinning OPE Blocks in AdS₃/CFT₂”
- ✓ Dr. Bobby Ezhuthachan attended the following meetings:
 - (a) “AdS/CFT @ 20” meeting at ICTS, from 21st May- 2nd June, 2018.
 - (b) Indian String Meeting held at IISER Trivandrum from (16th - 21st December, 2018)
- ✓ Kartik Panda, a Ph. D. scholar of Prof Amitabha Bhattacharyya, visited S N Bose National Centre for Basic Sciences from 25th October - 31st October, 2018 to attend a school on Material Science.
- ✓ Anirban Chatterjee, a Ph. D. scholar of Prof Abhijit Bandyopadhyay, attended "8th KIAS workshop on Cosmology and Structure Formation", hosted by the Korea Institute for Advanced Study (KIAS), Seoul, Republic of Korea from 5 - 9 th November 2018. He also gave a poster presentation on the topic "Bounds on diffusive DE-DM scenario from SNe Ia data".

Computer Science

- ✓ Dr. Tanmay Basu attended following workshops/conferences:
 1. CLEF 2018 conference during September 11-13, 2018 and presented a paper entitled "*Early Detection of Signs of Anorexia and Depression over Social Media Using Machine Learning*".
 2. The 34th International Symposium on Computational Geometry (SoCG 2018), Budapest, Hungary, June 11-14, 2018.
- Scientific visits of Dr. Tanmay Basu
- (a) Visited the natural language processing (NLP) research group at LIMSI, CNRS, Orsay, France during September 17-19, 2018 to interact with the researchers for

research collaboration and delivered a talk entitled "*NLP to Identify Potential Information Over Social Media and Biomedical Literature*".

(b) Visited Barcelona, Spain, from May 14-18, 2018 for Intensive Research Program in Discrete, Combinatorial and Computational Geometry

Sports Science and Yoga

In order to complement the education imparted on various theoretical aspects of yoga, the students were taken to a 10-day internship to Krishnamacharya Yoga Mandiram (KYM), Chennai.

Mathematics

✓ Prof Sukumar D. Adhikari

- Visited University of Colorado Boulder and University of Michigan, Ann Arbor, in May 2018. He gave a seminar talk at Colorado.
- Gave an invited talk at a conference on 'Combinatorial and Additive Number Theory' held at the CUNY Graduate Center during May 22 - 25, 2018.
- Delivered a lecture at mathematics training schools at NISER (Bhubneshwar) and HRI (Allahabad).
- Delivered a lecture on 'Some algebraic methods in zero-sum problems' at a seminar at NISER, Bhubaneswar on 2018.
- Gave a talk on 'Monochromatic solutions of linear homogeneous equations and some related questions', at KSOM Number Theory Conference, at Kozhikode, from December 10-14, 2018.
- Gave an invited talk at Ramakrishna Mission Vivekananda Centenary College, Rahara on 24 February, 2019 at the National Workshop in 'Algebra, Analysis, Geometry and Number Theory'.
- Gave a Plenary talk at a National Seminar on 'Recent Trends in Mathematical Sciences', at Department of Mathematics, University of Burdwan, on 6 February, 2019.

- Gave an invited talk on 'Recent Advances in Mathematics and its Applications', at Department of Pure Mathematics, University of Calcutta, on 21 February, 2019.
- Gave the key-note address at a function 'GANITOTSAV' organised by Department of Mathematics, Central University of Jharkhand, on 18 February, 2019.
- Delivered the **Sushil Kumar Banerji Memorial Lecture**, at Indian Statistical Institute, on 28 February, 2019.

✓ Prof Stephan Baier

- Visited the mathematics department at UNSW Sidney (Australia) for collaboration and give a seminar talk.
- Delivered a lecture on 'L-functions' at a workshop at IIT Mumbai.
- Gave a refresher course in mathematics, at University of North Bengal, Siliguri, in December 2018.
- Delivered a talk on 'The circle method' at Calcutta Mathematical Society, on 16 February, 2019
- Delivered a lecture titled 'Moments of the error term in the Sato-Tate law for elliptic curves' at the conference "Value distribution of zeta and L-functions and related topics" from 21-27 March at RIKEN in Tokyo.

✓ Dr. Ashish Gupta

- Participated in the Conference on 'Algebra and Lie theory' held at U. Haute Alsace, France in June 2018.
- Delivered a talk on 'Determinants in Mathematics' in Jan 2018 at Ramakrishna Mission Vidyamandira.
- Was the main organizer of a School on Cluster Algebras, at ICTS, Bengaluru, from Dec 8 – Dec 22, 2018.

✓ Dr. Shameek Paul

- Delivered a lecture on 'L – functions', at Indian Institute of Technology Bombay, Powai, in June 2018.
- Delivered a lecture on 'Commutative Algebra and Algebraic Geometry in positive characteristic', at Indian Institute of Technology Bombay, Powai, in December 2018.
- Attended a NCM Workshop on 'Characteristic Classes and Cobordism' at IIT Bombay, from 4th March 2019 to 15th March 2019.

✓ Dr. Arindam Banerjee

- Gave a lecture on 'Regularity of Edge Ideals: Some Recent Developments', at a Conference on "Combinatorial Commutative Algebra and Representation Theory", at Tulane University, New Orleans, Los Angeles, in November 2018.
- Gave a talk on 'Regularity of Edge Ideals: Some Recent Developments', at an Algebra Seminar, at Purdue University, West Lafayette, in November 2018.
- Delivered a series of lectures on 'Symbolic Powers and Packing Problem', at Department of Mathematics, Indian Institute of Technology, Kharagpur, in July 2018.
- Delivered a talk at an AMS meeting at Univ Arkansas, USA in Nov 2018.
- Delivered a talk at Hebrew University Israel, March 2019.

✓ Dr. Rajneesh Singh

- Attended the conference and workshop on number theory from Nov 14 - Dec 6, 2018, at NISER.
- Attended the intercity conference on number theory from 17- 19 Dec 2018 at IISER, Tirupati.
- Attended the conference on 'algebraic and analytic aspect of automorphic forms' from 25th Feb - 7th March 2019 at ICTS, Bangalore.
- Attended the International conference on number theory from 11th – 13th March 2019 at IISER, Thiruvananthapuram.

Sanskrit and Philosophy

ORIENTATION PROGRAM

Sl. No.	Name of the faculty	Programme	Duration	Organised by
1	Dr. Rakesh Das	Orientation Program	19 Nov to 18 Dec 2018	UGC-HRDC, Jadavpur University
2	Dr. Neeraj Kumar Bhargave	Orientation Program	19 Nov to 18 Dec 2018	UGC-HRDC, Jadavpur University

PAPERS PRESENTED IN CONFERENCES AND SEMINARS:

Sl. No.	Name of the faculty	Title of the Paper / Lecture	Details of Conference / Seminar	Organized by	Date
1	Dr. Rakesh Das	देशान्तरीयसाहित्यानुपसर्जने अवधेयाः अंशाः- निवेदितायाः अनुवादस्य प्रकाशे	National Seminar on Children's Literature in Sanskrit	Department of Sanskrit, SCSVMV, Kanchipuram in joint collaboration with Bala Sahitya Parishad, SAFIC	4, 5 and 6 April, 2018.
		Bhāratiya Saṃskṛti O Pariveśa Cetanā	Invited Lecture	Department of Sanskrit, Kalinagar Mahavidyalaya, Kalinagar, North 24 Parganas	31 January, 2019

2	Dr. Neeraj Kumar Bhargave	अर्थापत्तिप्रमाणम्	National Seminar on मानाधीनतया लोके पदार्थानां व्यवस्थितिः	Department of Nyaya Darsan, Sri Jagannatha Sanskrit University, Srivihara, Puri, Orissa.	29 & 30 March 2019
		ज्योतिर्विज्ञाने अनुसन्धान	National Seminar on ज्योतिर्विज्ञाने अनुसन्धानक्षेत्राणि	Department of Jyothisha, Sri Jagannatha Sanskrit University, Srivihara, Puri, Orissa.	28 & 29 March 2019
3	Dr. Gopikrishnan Reghu	कोशाध्ययनस्य अनुबन्धचतुष्टयम्	National Seminar on Lexicographical Studies	Dept. of Vyakarana, Govt. Sanskrit Collage, Tiruvananthapuram	22 to 24 November 2018

Sl. No.	Name of the Scholar	Title of the Paper / Lecture	Title of Conference / Seminar	Organized by	Date
1	Malay Porey	तत्पुरुषः समानाधिकरणः कर्मधारयः- इत्येकः विचारः	Fourth Annual International Conference	Paschimbanga Anchalik Itihas O Loksanskriti Charcha Kendra In collaboration with Ashutosh Collage.	14-15 July 2018
2	Kartik Mete	क्रममुक्तेः तत्त्वविचारः	Fourth Annual International Conference	Paschimbanga Anchalik Itihas O Loksanskriti Charcha Kendra In collaboration with Ashutosh Collage.	14-15 July 2018

3	Sukanta Manna	ई च खनः इत्यत्र ईपदप्रयोजनविचारः	Fourth Annual International Conference	Paschimbanga Anchalik Itihas O Loksanskriti Charcha Kendra In collaboration with Ashutosh Collage.	14-15 July 2018
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IRDM

- ✓ World Cancer Congress, New Delhi, invited Dr. Amitava Chatterjee to deliver a Keynote Lecture in April, 2018.
- ✓ The 2nd World Cancer Congress, held at Bangalore on 25 and 26 September, 2018, invited Dr. Amitava Chatterjee as a Speaker and presented him the "Life time achievement award", and a trophy.
- ✓ Dr. Pranab Kumar Nag attended the European Commission meeting on ERASMUS project at Bishkek International School of medicine from 3 August to 15 August, 2018.
- ✓ Dr. Tapash Dasgupta delivered an invited lecture on 'genomic varieties of rice' jointly organized by School of Biological Sciences of the University of Science & Technology, Meghalaya and Zaheer Science Foundation, New Delhi held at University of Science & Technology, Meghalaya.
- ✓ Dr. Gautam Chatterjee delivered an invited talk at the XIII Annual Group Meeting of All India Network Project on Organic Farming (AI-NPOF) at Tamil Nadu Agricultural University, Coimbatore, from 27-29 November, 2018.
- ✓ Dr. Gautam Chatterjee delivered an invited talk at the Fourth Meeting of Quinquennial Review Team (QRT) at ICAR Research Complex for NEH Region, Shillong, India, from 12-13 December, 2018.
- ✓ Dr. Sanchayeeta Misra attended IPNI Research Cooperators' Meet 2018 and International Symposium on Advancements in Plant Nutrition Research", in cooperation with Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, from 2 to 3 November, 2018 at Mumbai, Maharashtra.

- ✓ Dr. Sanchayeeta Misra attended training programme on 27 August, 2018 - “DBT Project on Biotech – KISHAN HUB” at West Bengal University of Animal and Fishery Sciences (WBUAFS), Kolkata.
- ✓ Dr. Alok Hazra delivered an invited lecture on ‘Plant Bioactive Molecules: An Introduction to Separation Techniques’, for the DBT sponsored Summer School, 2018 at Lady Brabourne College, Kolkata on 8 June 2018.
- ✓ Miss Tandra Mondal, Miss Jayashree Sen and Miss Shatabdi Saha participated in the RSAI 12th World Congress on Spatial System: Social Integration, Regional Development and Sustainability, Goa from 29 May to 1 June 2018.
- ✓ Dr. Amitava Chatterjee was invited as a key-note speaker to deliver a talk in the Conference of AIPTC/ FOSET at Salt Lake, Kolkata on 17 February, 2019.
- ✓ Dr. Tapash Dasgupta attended as a member of Research Advisory Committee of ICAR-CRIJAF on review of Plant Breeding Research Activities at CRIJAF, Barrackpore on 18 January, 2019.
- ✓ Dr. Gautam Chatterjee presented a poster on ‘Evaluation of the Centromere and its associated CENP-A protein in two asexual *Candida* species – *Candida tropicalis* and *Candida parapsilosis*’ at Presidency University on 5 February, 2019.

IRTDM

- ✓ Dr. Dipankar Chatterjee participated in a National Seminar on *Impact of violence in the Red Corridor* on Tribal Development and Traditions organised by Indian Institute of Public Administration, New Delhi (11-12 March, 2019).
- ✓ Dr. Dipankar Chatterjee delivered an Invited Lecture titled *Ethno-ecology of Transhumant Pastoralist: An Account of Survival Strategy of Gujars of Himachal Pradesh* in an international Seminar on Man and Environment: Issues and Challenges organized by Subarnarekha Mahavidyalaya, Jhargram West Bengal. (13-14 March, 2019).
- ✓ Dr. Avijit Kr. Dutta participated in an International conference Climate Change, Sustainability and Livelihood organised by Nirmala College, Ranchi (9-10 March, 2019).

FDMSE

Ms. Nandita Chakraborty, Ph.D. Scholar, Presented a paper on '*Transition issues of individuals with ASD-Mothers' perspective*', in the National Conference on Autism- "Evidence Based Practice in Autism", held at SRM College of Occupational Therapy, Chennai, on 28 - 29 June, 2018. Her paper won the Best Scientific Paper Award in the conference.

FAR

Sl. No.	Staff Details	Programme Attended
1	Dr. S. Suresh	National Training on Bee Keeping – TNAU, Coimbatore
2	Dr. J. Ramesh	National Workshop on Metrics in Research, Publication and Career Development – College of Education, Vidyalaya Campus, Coimbatore
3	Mr. S. Chandra Prakash	National Conference on Livelihood and Food Security (LFS-2018), Veterinary University, Patna
4	Dr. G. Yoganathan	National Workshop on Emerging Trends in Rejuvenating Academic Research, TNAU, Coimbatore
5	Dr. K. Vinoth Kumar	National Workshop on Dynamical downscaling of climate change scenarios for impact assessment in agriculture and allied sections, TNAU, Madurai
6	Mr. M. Tamilselvan	National Workshop on Numerical Techniques for Differential Equations, Periyar University, Salem
7	All the staff members	Nation Seminar on Current Trends and Major Challenges in Sustainable Agriculture, FAR, RKMVERI, Coimbatore
8	All the staff members	Library Orientation Programme on MOOC -College of Arts and Science, Vidyalaya Campus, Coimbatore

GAPEY

Details of workshops/seminars/ conferences/symposiums/ training Programmes	Organized by	Name of the staff
Attended State Level Workshop cum officiating in Yoga	Maruthi College of Physical Education	All Staff
Attended National Seminar on Yoga for Health and Life Style Management	Maruthi College of Physical Education	All Staff
National Seminar on Professional Management on School Sports and Yoga	McGAN'S Academy for Yoga and Sports at Kotagiri	Dr. Dibakar Debnath & Dr. D. Yuvaraj
Attended State Level Workshop on "Psychological Assessment of Students and its Interpretation"	Ramakrishna Mission Vidyalaya College of Education	Dr. M. Ramajayam
Attended State Level Workshop on Physiotherapy and Rehabilitation Exercises	CMS College of Science and Commerce, Coimbatore.	Dr. M. Ramajayam

DETAILS OF
SPECIAL LECTURES / WORKSHOPS / SEMINARS / CONFERENCES /
SYMPOSIUMS
HOSTED / ORGANISED DURING THE YEAR

Physics

SEMINARS ORGANISED:

Title of Seminar	Name of Speaker
Many Bodies and Massive Bodies, A World in Hologram	Arnab Kundu
Synchronization in next generation microelectronic systems: flat hierarchies - can the 'reference clock' be abolished?	Lucas Wetzel
The sorrow of Bengal: Myth or Reality	Kalyan Rudra
Musical vibrations in the brain: A neurocognitive physics exploration through fractal microscope	Shankha Sanyal
Quantum simulating aspects of gauge theories	Debasish Banerjee
Black holes, holograms and quantum quench	Sumit R. Das
The Einstein-Rosen bridge and its progeny	Sayan Kar
Chaos: A New Kind of Motion	Soumitro Banerjee

ORGANISATION OF SCIENCE ACADEMIES' REFRESHER COURSE ON 'STATISTICAL PHYSICS' FROM 9 TO 23 DECEMBER 2018

Sponsored by:

- ✓ Indian Academy of Sciences, Bengaluru
- ✓ Indian National Science Academy, New Delhi
- ✓ National Academy of Sciences India, Allahabad

Local Organiser: Prof Shamik Gupta

29 (local: 3, outstation: 26) selected participants attended the course.

ONE-DAY DISCUSSION MEETING ON RANDOM WALKS – 16 JAN 2019

S. No.	Speakers	Title of talks
1	Luca Giuggioli (University of Bristol, Bristol)	Territorial random walks and their application to the formation of animal territories
2	C M Chandrashekar (Institute of Mathematical Sciences, Chennai)	Quantum random walks and its operational perspective of quantum simulations
3	P K Mohanty (Saha Institute of Nuclear Physics, Kolkata)	Random walkers: Diffusive modes of transport
4	É Roldán (ICTP, Trieste)	Stochastic resetting in RNA transcription
5	S. Gupta (RKMVERI, Belur Math)	Classical random walks with stochastic resetting

Computer Science

SEMINARS:

- ✓ One day Seminar on Image and Video Analytics -*A primer on new age skills*, 30 March 2019
- ✓ CALDAM Indo-Italian Pre-Conference School on Algorithms and Combinatorics, IIT Kharagpur, February 11-12, 2019
- ✓ 5th Annual International Conference on Algorithms and Discrete Applied Mathematics (CALDAM 2019), IIT Kharagpur, February 14-16, 2019.
- ✓ Expository Lectures on Graph and Geometric Algorithms, BITS Hyderabad, 21-22 September, 2018.

SPECIAL LECTURES:

- ✓ Discussion on Higher education in universities abroad - Prof. David Mount (USA), Prof. Matya Katz (Israel) – 18 Feb 2019
- ✓ Gambling Exercises, Prof B K Sinha, Indian Statistical Institute Kolkata, 8 August 2018
- ✓ What laws act on Mind? Dr. Kenneth W. Regan University at Buffalo, The State University of New York, NY, USA - 5 Feb 2019
- ✓ Rough-Probabilistic clustering and its application in Image Segmentation – Dr. Abhirup Banerjee, PostDoc Fellow, University of Oxford, UK – 10 Oct 2018
- ✓ Yoga and NeuroImaging Lab: Selected Research Activities, Dr. Rahul Garg, IIT Delhi – 5 Jan 2019

Seminars given abroad by Prof. Subir Ghosh

1. Challenges in Combinatorial & Discrete Geometry, Intensive Research Program in Discrete, Combinatorial and Computational Geometry, Barcelona, Spain, May 14, 2018.
2. Masaryk University, Burno, Czech Republic, June 3, 2018.
3. Charles University, Prague, Czech Republic, July 9, 2018.

Mathematics

SPECIAL LECTURES:

Speaker	Title
Shashi Mohan Srivastava (ISI, SMU, Kolkata)	A Cute Result of Erdős on Analytic Functions
Stephan Baier (RKMVERI)	The Mathematics of Piano Tuning
D. Surya Ramana (HRI, Allahabad)	Additive Energy of Dense Sets of Primes
Anirban Mukhopadhyay (IM. SC. Chennai)	How uniform is Uniform distribution
Partha Sarathi Chakraborty (IM. SC. Chennai)	Haar measure on $SO(n)$
C.S. Rajan (TIFR Mumbai)	Numbers of the form $x^2 + ny^2$, and an introduction to quadratic reciprocity
Ratna Pal (IISER Pune)	A rigidity theorem for Henon maps
Arijit Gangopadhyay (Tel Aviv University)	Diophantine approximation in function field of positive characteristic
Jyoti Sengupta (TIFR Mumbai)	A case of simultaneous nonvanishing of automorphic L -functions
Bidyut Sanki (IM. SC. Chennai)	Embedding of metric graphs on hyperbolic surface
Kummari Malleshham (ISI Kolkata)	Primes in sumset
Sukumar Das Adhikari (RKMVERI)	Some algebraic methods in zero-sum problems
Jugal Verma (IIT Bombay)	Counting roots of multivariate polynomial systems using volumes of Newton polytopes

Rajneesh Kumar Singh (RKMVERI)	Large sieve inequality with power moduli for function fields
K. Ramasubramanian (IIT Mumbai)	Tracing the evolution of sine function in India. From finite numbers to infinite series
Ashish Gupta (RKMVERI)	Cyclotomic polynomials
Olivier Ramaré (Institut de Mathématiques de Marseille)	Products of primes in arithmetic progressions
A.B. Raha (ISI Kolkata)	An elementary proof of Real Stone-Weierstrass Theorem
Michel Waldschmidt (University of Paris VI)	On the Landau-Ramanujan constant
Stephan Baier (RKMVERI)	The circle method and its application to the ternary Goldbach problem
Shameek Paul (RKMVERI)	Monsky's Theorem
Anirban Mukhopadhyay (IM. SC. Chennai)	Bounded gap between products of two primes in quadratic number fields
Atul Dixit (IIT Gandhinagar)	On values of the Riemann zeta function at odd positive integers
Mahan Mj. (TIFR Mumbai)	What is hyperbolic geometry?
Manish Mishra (IISER Pune)	Self-dual cuspidal representations

- ✓ The Department conducted an International workshop and conference on Topological Dynamics and Number Theory
- ✓ Dr. Ashish Gupta conducted an international winter school on cluster algebras at TIFR-ICTS, Bangalore

Sports Science and Yoga

SPECIAL LECTURES:

A special lecture by Dr. Pralay Majumdar, Sports Authority of India, Bangalore was organised through videoconference.

SEMINAR:

A national seminar on “Scientific Approach to Sports Performance and Assessment” was organized on 15-16 March 2019 at the Belur Campus. The chief speakers were:

- i) Dr. Ajay Bansal, Former Chief Coach, Hockey India
- ii) Dr. Mantu Saha, DIPAS DRDO, New Delhi.

Sanskrit and Philosophy

SPECIAL LECTURES:

Title of the Lecture	Name of the Resource Person
Specila Lecture Series 1 – Navya Nyaya	Dr. Sandeep Kumar Sharma, Ujjain
Special Lecture Series 2 - Manuscript Resources at Lipika Manuscriptorium, Visva-Bharati, Santiniketan	Prof. Aruna Ranjan Mishra, Visva-Bharati
Special Lectures Series 3 - An Introduction to Piṅgalācārya's Chandaḥsūtra	Prof. K. Ramasubramanian, IIT Mumbai
Special Lectures Series 4 - Different aspects of Sanskrit Literature	Prof. K. S. Kannan, Bangalore
Special Lectures Series 5 - Samarthaḥ Padavidhiḥ	Dr. Ganeshwar Nath Jha, Assistant Professor, Shree Ramsundar Sanskrit Vishva Vidya Pratishthana, Ramouli, Darbhanga

Special Lectures Series 6 - Bauddhārthaprakaraṇam of Vaiyakaṇa- siddhāntalaghumañjūṣā of Nāgeśabhaṭṭa	Dr.Ch.K.Padmanabham, Assistant Professor, Vyakarana Vibhaga, Rajiv Gandhi Campus, Rashtriya Sanskrit Sansthan, Sringeri
Special Lectures Series 7 -	Prof. Nagaraj Paturi, Director, The Indic Academy of Sanskrit Indological Studies, and InterUniversity Centre for Indic Knowledge Systems, Hyderabad
Special Lectures Series 8 - communicative skills in Sanskrit language	Sri Umamaheshwara N., Research scholar, Rajiv Gandhi Campus, Rashtriya Sanskrit Sansthan, Sringeri

WORKSHOPS:

Title of Workshop	Name of the Resource Person(s)	Duration and Dates	No. of Participa nts
National Workshop on Vyākaraṇa Mahābhāṣya of Patañjali (Samarthāhnikam)	1. Prof. Narottam Senapati HoD, Dept. of Sanskrit, Pali, Prakrit Visva- Bharati (Inaugural Session) 2. Dr. Ch.K.Padmanabham Asst. Prof. Vyakarana Vibhaga Rajiv Gandhi Campus, Rashtriya Sanskrit Sansthan, Sringeri (Technical Sessions) 3. Prof. Satyajit Layek HoD, Dept. of Sanskrit Calcutta University (Valedictory Session)	7 days From 5 th to 12 th Jan 2019	24

SPECIAL LECTURES:

- ✓ Special lecture on the occasion of International Day of World's Indigenous People
- ✓ Special lecture on the occasion of International Day of World's Indigenous People
- ✓ Special lecture on Digital Transactions
- ✓ Special Lecture on Integrated Watershed Management
- ✓ Scope of increasing livelihood through evergreen varieties of mango, guava and jackfruit in Jharkhand

SEMINARS AND WORKSHOPS:

Sl. No.	Event	Date & No. of participants	Highlights
1	Seminar on the occasion of National Ayurveda Day	5 th November, 2018 No. of participants: 100	Dr. Agarwal delivered a speech on this occasion in which he highlighted the following points- <ul style="list-style-type: none"> • Genesis of Ayurveda • Modern allopathic medicine and Ayurveda • Importance of Ayurveda • Basics of Ayurveda
2	3-day sensitization programme on Drug Abuse for the school teachers in collaboration with NISD (National Inst. of Social Defense) Govt. of India.	5-7 th December, 2018 No. of participants: 36	Lectures, field visit was organized and experts were drawn from Central Institute of Psychiatry (CIP) Ranchi, Narcotics Control Bureau (NCB) for delivering lectures in the seminar.
3	Seminar on "Cultural history and archaeology of Jharkhand"	09 th January, 2019 No of participants: 132	Shri Kallol Saha, a Development Professional delivered a speech by mentioning the following highlighting points- <ul style="list-style-type: none"> • Importance of study of cultural history. • Chronology and history of Jharkhand • Historical archaeology of Jharkhand • Tourism and employment opportunity: a global overview. • Scope of further study.

4	Photography Workshop by Nikon	23 rd January, 2019 No. of participants: 100	Mr. Aninda Basu, a representative from Nikon School had dealt the session. He highlighted following major points- <ul style="list-style-type: none"> • Types of Photography • History of photography (starting from pin hole camera) • Evolution of camera. • Technicalities of DSLR camera • Basics of photo capturing through the photo shoot session
5	Seminar on CAT examination and GD-PI preparation	05 th February, 2019 No. of participants: 122	The seminar was presented by Shri Manjeet Thakur, Project Development manager, IIM, Ranchi and Shri Adarsh Das, Research Assistant, IIM, Ranchi They dealt with the following points- <ul style="list-style-type: none"> • Preparation process • Different ways to opt for studying in abroad. • The available scholarships for Indian students • Scope of study in different countries
6	One Day Sensitization Programme on Inter-Generational Bonding in collaboration with Calcutta Metropolitan Institute of Gerontology sponsored by NISD (National Institute of Social Defense) Government of India.	30 th January, 2019 No. of participants: 100	Lectures, field visit was organized and experts were invited from CMIG, RKMVERI for delivering lectures in the seminar

IRDM

SPECIAL LECTURES:

✓ Ms. Ankita Sengupta and Ms. Sayantani Basak from the Kolkata based NGO Prantakatha – Promoting Active Citizenship, took a session on “Melting Pot Fellowship” on 4 September, 2018. They shared the importance of social work and also discussed how the students can get benefit by enrolling them in the above fellowship. Forty six students from both semester of M. Sc. in Agriculture and Rural Development course and four teachers actively participated in the same event.

✓ Dr. Debashis Mondal, Assistant professor of Mizoram University took two special sessions on “Organic processing in North-East India: problems and future prospects” and “Micro Irrigation & Green House Horticulture” on 16 January, 2018.

FDMSE

SPECIAL LECTURES:

Topics	Name & Designation of Resource Person
Development of teaching Mathematics material for CWVI from the beginning to 10th Std.	Mrs. A. Kalavathi, Freelance Trainer from ‘Kits & Concepts’, Chennai
Creating magic in the classrooms for students’ engagement	Dr. Manu K. Vora, Founder Director and President of Blind Foundation for India, USA
Developmental disorders with special note on Autism Spectrum Disorder	Dr. Ra. Poo. Ezhilmangai, Developmental and Behavioural Paediatrician, PSG Hospitals, Coimbatore

WORKSHOPS / SEMINARS / CONFERENCES / TRAINING PROGRAMMES:

Sl. No.	Event	Date
1.	One-day workshop on “Orientation to Library Automation in using KOHA Software”	26 Oct 2018
2.	Three-day Continuous Rehabilitation Education (CRE) Programme (RCI approved) on “Assistive Technology for Individuals with Hearing Impairment” in Collaboration with AJYNISHD (D), Mumbai.	19 to 21 Nov 2018

3.	Two-day Continuous Rehabilitation Education (CRE) Programme (RCI approved) on "Addressing Barriers in the Environment and Universal Design for Learning" (UDL) in collaboration with NIEPMD, Chennai.	7 & 8 Feb, 2019
4.	Five-day Refresher Programme on "Research Methodology in Special Education and Disability Rehabilitation" sponsored by RCI, New Delhi.	26 Feb to 2 March 2019.
5.	Two-Day National Conference on "Global Trends in Assistive Technology and Adapted Sports" in collaboration with General & Adapted Physical Education and Yoga	15 & 16 March 2019

GAPEY

SPECIAL LECTURES:

- ✓ A special lecture on "Sports Injury Management" delivered by Dr. B. Kannabiran, Professor, RVS College of Physiotherapy on 06.09.2018.

WORKSHOPS / CONFERENCES:

- ✓ State Level Workshop on "Traditional Sports, Games and Physical Cultures" was organized during 25th and 26th September 2018.
- ✓ National Conference on "Global Trends in Assistive Technology and Adapted Sports" was organized on 15th & 16th March 2019.

FAR

SEMINAR:

- ✓ National Level Seminar on "Current Trends and Major Challenges in Sustainable Agriculture" (CTMCSA-2019) on 21st and 22nd February, 2019

**DETAILS OF PROJECTS / RESEARCH WORK UNDERTAKEN
DURING THE YEAR**

Physics

Resource person: Dr. Shamik Gupta

Sanctioned projects: DST-SERB project “Rare events in synchronizing systems” has been sanctioned with a budget of 15 lacs for three years starting November 2018. The sanction no is TAR/2018/000023

Computer Science

Resource person Dr. Tanmay Basu

- ✓ Developed an effective machine learning framework for extraction of data elements of anxiety outcome measures to build systematic review, in collaboration with Dr. Simon Goldsworthy, Principal Research Radiographer at Taunton and Somerset NHS Foundation Trust, Taunton, UK.
- ✓ Participated in a Clinical Natural Language Processing challenge organized by Harvard Medical School, USA. Collaborated with the Biomedical NLP research group led by Dr. Vinod Vydiswaran at Department of Learning Health Sciences, University of Michigan, Ann Arbor, USA to take part in this challenge. The RKMVERI and University of Michigan team got selected in the list of top ten teams in this challenge. **Applied for US patent for the contribution of this project.**
- ✓ Undertaken a Project to find a novel method for community discovery over social networks in collaboration with Swarup Chattopadhyay, Dr. Kuntal Ghosh, of Machine Intelligence Unit, Indian Statistical Institute Kolkata and Dr. Asit Das, Indian Institute of Engineering Science and Technology (IIST) Shibpur, West Bengal. The initial results of the proposed method had been communicated to Journal of Machine Learning and Cybernetics, Springer.

Mathematics

- ✓ Prof Sukumar D. Adhikari is working in some areas of Ramsey Theory keeping some challenging open questions in mind. Jointly with Shalom Eliahou, he has started work on a conjecture of Fox and Kleitman on the degree of regularity of a certain linear equation – Dr. Ashish Gupta's current research is focused on automorphisms of algebras and in particular the quantum groups. Determining automorphism groups or symmetries is an important question which is of interest to a wide community of researchers. He is also interested in the problem of computing certain invariants of modules known as the Gelfand-Kirillov dimension. His Ph. D. students are investigating representations and commutative subalgebras.
- ✓ Dripta Mj in collaboration D. Dutykh, University of Savoie is investigating Bayesian optimization of coastal profiles using nonlinear shallow water equations.
- ✓ Prof, Stephan Baier is pursuing the following projects
 - "Large sieve for number fields" with Arpit Bansal (JNU Delhi),
 - "Large sieve for function fields" with Rajneesh Kumar Singh (RKMVERI),
 - "Large sieve with square moduli" with Surya Ramana (HRI),
 - "Smoothed Sato-Tate law" with Neha Prabhu (Queens University Kingston, Canada) and Kaneenika Sinha (IISER Pune),
 - "Exponential sums with Fourier coefficients of GL (3) automorphic forms" with Satadal Ganguly (ISI Kolkata), "Diophantine approximation with Gaussian primes" with Marc Technau (University of Graz, Austria)
- ✓ Dr. Arindam Banerjee is working on the following projects:
 - Algebraic, Combinatorial and Probabilistic aspects of edge ideals of finite simple graphs.
 - Symbolic Powers of Ideals in Commutative Rings.
- ✓ Dr. Rajneesh Singh (joint work with Stephan Baier) Extending the large sieve with sparse sets of moduli for function fields to finite extension of function fields. 21 _ (joint work with Urs Hartl) To extend our result of "Periods of Drinfeld modules with complex multiplication(Journal of the Institute of Mathematics of Jussieu, 1-34, 2018)" to A-motives.

Project	Investigator
Exploration of Spiders (Arachnida: Araneae) of Eastern Himalaya [Funded by Ministry of Environment and Forest, Govt. of India]	Dr. Dinendra Raychaudhri
UGC start-up grant	Dr. Joshitha Vijayan
Fostering Network in Education, Research & Innovation in Environmental & Occupational Health [Funded by European Commission]	Dr. Pranab Kr. Nag
Tissue Culture for Micro-propagation [Funded by Department of Horticulture, Government of West Bengal]	Prof. Tapash Dasgupta
Network Project on Organic Farming [Funded by Indian Council of Agricultural Research]	Principal Investigator: Dr. Gautam Chatterjee Co- Principal Investigator: Dr. Abhijit Ghosal Dr. Krishnendu Ray
Structure-function analysis of the centromeres and its associated centromeric protein CENP-A of the human pathogenic <i>Candida parapsilosis</i> species complex [Funded by SERB, DST, Govt of India].	Dr. Gautam Chatterjee
“Human surface thermographic profiling as indicator of climate susceptibility and impact mitigation using social networking” [Funded by DST, Govt. of India]	Principal Investigator: Dr. Pranab Kr. Nag Co- Principal Investigator: Dr. Rupak Goswami

Research and Raising of Arabian Dates Tissue Culture Sapling [Funded by Panchayat and Rural Development, Government of West Bengal]	Dr. Tapash Dasgupta
Establishment of a biotech-KISAN Hub in Sunderban area of South 24 Parganas District of West Bengal	Principal Investigator: Dr. K.C. Dhara, WBUAFS Co-Investigator: 1. Dr. Rupak Goswami, RKMVERI (currently Dr. Sanchayeeta Misra acted as Co. PI on behalf of Dr. Rupak Goswami 2. Dr. Nilendu Jyoti Maitra, RAKVK, Nimpith
All India Coordinated Maize Improvement Project (Voluntary Centre)	Principal Investigator : Dr. Tapash Dasgupta, Dean, IRDM Faculty Centre, RKMVERI Co- Principal Investigator: Dr. Ram Babu Raman

OTHER ACTIVITIES DURING THE YEAR

Sports Science and Yoga

- ✓ Application for Intellectual Property registration

The following designs were submitted to the IP Office in Kolkata for registration:

- a) Balance test equipment for the Blind persons
- b) Trunk Flexibility test equipment

- ✓ The students of PGDY course went to Ranchi campus of the university to conduct Yoga camps in different villages of Jharkhand state.

- ✓ 4th International Day of Yoga was observed at the Belur Main Campus on 21 June 2018.

Sanskrit and Philosophy

OUTREACH PROGRAMMES

Sl. No.	Name of the programme	Duration	No.
1	Preliminary course in Functional Sanskrit	Jul-Dec 2018	58
2	Intermediate course in Functional Sanskrit	Jul-Dec 2018	34
3	Preliminary course in Functional Sanskrit	Jan-Jun 2019	133
4	Intermediate course in Functional Sanskrit	Jan-Jun 2019	33
5	Advanced course in Functional Sanskrit	Jan-June 2019	54
6	Paniniya pravesa – Laghusiddhanta Kaumudi	Sep 2018 – Sep 2019	33
7	Paniniya pravesa – Siddhanta Kaumudi	Sep 2018 – Sep 2019	26

RESIDENTIAL TRAINING PROGRAMME

IRDM faculty center with collaboration of the West Bengal University of Animal and Fishery Sciences (WBUAFS) organized 2 phases of residential training programme of 5-days each, for women farmers' on 'Scientific rearing practices of Sheep and Goat' :

First Phase from 4 to 8 December, 2018

Second Phase from 8 to 12 January, 2019

Around 100 woman farmers from four different blocks of Sundarban areas viz. Basanti, Jharkhali, Sandeshkhali, Mollakhali attended the training programme. The training program, a part of Bio-Tech Kisan Hub Centre activity, was sponsored by DBT, Govt of India. Dr. Sanchayeeta Misra is Co-PI of the project.

ORGANISATIONAL VISITS**Learning through Organizational Attachement (LOA):****a) M. Sc. in Agriculture and Rural Development**

Sl. No.	Organisation	Students
1	National Institute of Rural Development & Panchayati Raj (NIRD & PR), North Eastern Regional Centre NIRD Lane, Jawaharnagar Khanapara , Guwahati 781022, Assam (INDIA)	1. Mr. Arindam Banerjee 2. Mr. Deep Sourav Ray
2	National Innovation Foundation - India Campus - 11, KIIT Technology Business Incubator building KIIT University, Patia Bhubaneswar-751024, Odisha	1. Ms. Piyali Sen 2. Ms. Riya Sarkar 3. Mr. Sarthak Roy 4. Mr. Sarnava Mondal
3	Basix Krishi Samruddhi Ltd. (BKSL) Guntia, Jharkhand	1. Mr. Diptesh Chatterjee 2. Mr. Rupam Misra
4	Child In Need Institute Daulatpur, P.O – Pailan via Joka, South 24 Parganas, West Bengal Pin code – 700104	1. Mr. Pritam Bhattacharyya 2. Ms. Sulagna Sarkar
5	Sundaraban Milk Union Administrative Building 8 th Floor Alipore, Kolkata	1. Ms. Riya Khatun 2. Ms. Sukanya Mondal

6	Manbhum Co-operative Milk Producers' Union Limited Puruliya	1. Mr. Sanjib Mondal
7	Snehalaya (Ahmednagar) Bilwadal, Capt Rajabhau Kulkarni Marg Juna Mangalwar Bazar, Ahmednagar 414001, Maharashtra	1. Ms. Tanaya Ghosh 2. Ms. Sangita Som
8	Durbar Mahila Samanwaya Committee 12/5 Nilmoni Mitra Street, Kolkata West Bengal, India Pin: 700006	1. Ms. Shuchismita Guha 2. Ms. Poulami Sen
9	Infinity CSR Infinity tower II, 3rd floor, plot a3, block gp, sector V Salt Lake, Kolkata – 700091	1. Ms. Arpita Das
10	Coromandel International Ltd. 10ES-1 on 10th floor, East Block Mani Casadona, Plot No IIF/04 Action Area-IIF, New Town, Under Police Station – Rajarhat, Kolkata - 700 156	1.Mr. Suman Mondal
11	Jan Seva, Society for Indian Children's Welfare 366 Prantik Pally, Kasba Kolkata – 700042	1. Ms. Tania Mukherjee
12	PAN Seeds Pvt. Ltd. Suite No: 15, 2nd Floor, 2.N.C.Dutta Sarani , Kolkata - 700 001	1. Mr. Shyamal Mandal

b) M. Sc. in Agricultural Biotechnology

Sl. No.	Name of the Organization	Name of the Students
1	Indofil Industries Ltd., Kolkata	1. Arunabha Khara 2. Biswajit Mal 3. Suranjali DasKarmakar 4. Debjani Debnath
2	NuziVeedu Seeds Ltd.	1. Aayushi Gupta 2. Jahir Hossain 3. Ananya Das 4. Rohit Bharti

3	Gotra S.K.U.S Pvt. Ltd.	1. Mouli Pal 2. Rantim Bhattacharjee 3. Saikat Das 4. Sayani Bandyopadhyay 5. Mondira Banerjee 6. Leesa Biswas
4	Vivekananda Institute of Biotechnology, Nimpith, South 24 Parganas	1. Lohit Baran Maity 2. Monalisa Mondal 3. Rupsha Nandi 4. Shilpi Laha
5	Nitrofix Laboratories	1. Ankita Chowdhury 2. Pratyusha Basu 3. Samhita Chakraborty

FIELD VISITS:

Programme	Date	Visit/practical details
Programme Name: M. Sc. in Agriculture and Rural Development		
M. Sc. ARD; Semester-II	10/04/2018	Visited Anthropological Survey of India to study on the different racial classification of tribes
M. Sc. ARD; Semester-II	12/05/2018	Visited Farmers Producer Organization (FPO) at Mokamberia, Basanti Block, South 24 Parganas to study on how can develop business plan for FPO
M. Sc. ARD; Semester-IV	04/05/2018	Visited Khardah Gram Panchayat, Amta, Howrah to study the role and functions of Gram Panchayat
M. Sc. ARD; Semester-I	28/09/2018	Visited Gopalpur, block- Canning to study the different dimension of rural areas like livelihood, infrastructural and sanitation facilities available in the village, housing patterns and especially socio economic and cultural changes took place in the village

		(Occupation, Festival, Food habit, Agricultural cropping pattern, Dress code, folklore etc.)
M. Sc. ARD; Semester-I and M. Sc. AgBT Semester – I	11/10/2018	Visited NBSS-LUP, Salt Lake with Dr. Narayan Chandra Sahu, Senior Scientist& Head, Sasya Shayamala Krishi Vigyan Kendra
M. Sc. ARD; Semester-I	02/11/2018	Visited ATMA, Canning – I Block to know the history and background of extension agency, to study the different extension services are being provided by ATMA and to get the exposure of different demonstration units, study the various on-going projects and schemes etc.
M. Sc. ARD; Semester-I	20/11/2018 to 23/11/2018	Visited Ramganga, Patharpratima Block of South 24 Parganas to study the different components of the village like – housing & settlement patterns, livelihood, health and sanitation, educational institutions etc. and to get the handhold exposure on Participatory Rural Appraisal (PRA) sessions
M. Sc. ARD; Semester– III	26/09/2018	Visited Vermicompost and Entrepreneurship Unit at Kultali Block, South 24 Parganas to get the handhold exposure on techniques and process of vermicompost and to know the marketing channel for the same
M. Sc. ARD; Semester– III	31/10/2018	Visited Rural Health Hospital, Domjur Block, Howrah to study the different healthcare services being provided by rural hospital and to know the major health related programmes are being conducted by the same hospital for the welfare of the rural mass.
M. Sc. ARD; Semester– III	05/11/2018	Visited to Sanlaap to get the practical exposure on Short Stay Home where different girls are staying who are in mortal danger (victims of domestic violence, rape, human trafficking etc.) and to interact with the survivals to acquire the

		information's on different causes of human trafficking in India.
M. Sc. ARD; Semester – III	12/11/2018	Visited to Jan Sikshan Santhan, RKM Ashrama, Narendrapur to study the different components of JSS and their skill based education for the adults.
M. Sc. ARD; Semester– III	15/11/2018	Visited to Sos, Salt Lake (Orphan Home) to study the different components and interventions strategy that SoS adopted to make the parentless children self-sufficient and self-reliant Valobasa (Swadhar Home) – to study on the survivals and to interact with them to gather the information's on their problems and to know the various services are being provided by the Govt. to get back them main stream in the society.
M. Sc. ARD; Semester – III	19/11/2018	Visited SSKVK, Arapanch to get handhold exposure on the pond based integrated farming system (IFS) with duck, Quel birds and cucurbits. Composite fish farming with improve fish variety like Joyanti Rohu, best management practice for aquaculture through pond management, feed management and bio-security.
M. Sc. ARD; Semester-I	30/11/2018	Visited Krishi Vigyan Kendra, Arapanch to study the different demonstration units and various extension services are being provided by SSKVK
M. Sc. ARD; Semester– III	27/11/2018	Visited Agriculture Training Centre, Narendrapur to know the different training and services are being provided by ATC, functions and activities of ATC etc.

M. Sc. ARD; Semester- III	29/11/2018	Visited three different blocks office of AMTA of South 24 Parganas viz. Canning – I, Canning – II and Baruipur to know the various schemes and extension activities run by ATMA, interact the beneficiaries to know the current progress etc.
M. Sc. ARD; Semester – III	02/12/2018	Visited the Model Sanitation Village at Tamluk, East Midnapure and studied the different components of sanitation village
Programme Name: M. Sc. in Environment and Disaster Management		
M. Sc. EDM; Semester – I	24/11/2018	Visited Canning – I Block to study the disaster management system through various tools of Participatory Rural Appraisal (PRA)
Programme Name: M. Sc. (Ag.) in Genetics and Plant Breeding		
M. Sc. GPB; Semester-I	27/09/2018	Visited Chinsurah Rice Research Station, Hooghly, Department of Agriculture, Government of West Bengal to update the information regarding rice breeding techniques and recently released varieties by centre. The scientists demonstrated different experiments being conducted at the station and explained different constraints for improvement of rice production.
Programme Name: PG Diploma in Post Harvest and Food Technology		
PG Diploma; Semester – I	13/11/2018	Visited the PAN Seeds Pvt. Ltd. at Diamond Harbour, South 24 PGS. West Bengal on <u>13 November, 2018.</u>
PG Diploma; Semester – I	20/11/2018	Visited to the following factories on <u>20 November, 2018</u> a. Rollick ice cream at Dhulagarh, Santragachi, West Bengal. b. Britannia industries at Amta, Howrah, West Bengal

a) All India Tribal Conclave (18-20 December, 2018): During the semester break a group of 12 students participated in the **All India Tribal conclave** at Ramakrishna Mission Ashrama Narainpur, Chattisgarh. The students performed an act on Birsa Munda which was highly appreciated.

b) Institutional Social Responsibility (ISR): A group of enthusiastic students initiated ISR activities by offering free coaching to the students of a nearby school. Every evening 2 or 3 students of the university used to go to that school and take classes. The group also provided free educational kits to the needy students. Within a period of three months, the number of students in the coaching class increased from 10 students to 60 students. The funding for the ISR activity is entirely based on the fund created through the voluntary contribution of the students of the university.

c) Annual Sports Meet 2019:

On the 31st of January, 2019, IRTDM, Ranchi hosted its first ever Annual Sports Meet. Approximately 100 students participated in the customized and fun-filled indoor and outdoor games. A total of seven events were there which included table tennis, badminton, carom, chess, yoga, volleyball, and musical chair. All the winners and the runner-ups were awarded with medals and certificates.

d) Village & Institutional visits: Fieldwork in villages and rural living was conducted as per the following schedule,

Course	Batch	Activity	Duration	Supervising Faculty
ARTD	7 th Semester	Exposure visit to aromatic oil extraction plant at College of Forestry of BAU	17 th Nov, 2018	Dr. A. K. Dutta
	1 st Semester	Exposure visit to different units of BAU	3 rd Nov, 2018	Dr. Sudarsan Biswas
	9 th Semester	Regional Kisan Mela at Barhe, Chanhoo	18 th Dec, 2018	Dr. V. W. Dhote

	6 th Semester	Regional Kisan Mela at Heselpiri, Burmu	22 nd Jan, 2019	Dr. Sudarsan Biswas and Sri Supratim Patra
	8 th Semester	Regional Kisan Mela at Lamkana, Bero	30 th Jan, 2019	Dr. Sudarsan Biswas and Sri Suresh Kr. Mahto
	All ARTD batches	Central Kisan Mela, Getalsud Farm, Angara	7 th to 8 th Feb, 2019	All Faculty members and non-teaching staff.
	4 th Semester	Exposure visit to Fodder Farm, BAU, Kanke	20 th Feb, 2019	Dr. D. K. Thakur
RDM	4 th Semester	To study the model tribal panchayat, Nawagarh, Angara as a part of RLLE	13 th to 22 nd Dec, 2018	Dr. Sudarsan Biswas
	2 nd and 4 th Semester	Central Kisan Mela, Getalsud Farm, Angara	7 th to 8 th Feb, 2019	All Faculty members and non-teaching staff
DARD	2 nd Semester	Central Kisan Mela, Getalsud Farm, Angara	7 th to 8 th Feb, 2019	All Faculty members and non-teaching staff

FDMSE

FIELD VISIT

- ✓ Teacher Trainees of Integrated B.Ed-M.Ed.(ID), visited KMCH College of Occupational Therapy on 28 April 2018. They observed the activities of the specialized units of Child health, Mental Health, Cognitive perceptual unit, Play therapy, Sensory Integrative Therapy, Group Therapy, ADL Room, Hand Therapy, Splinting Unit and Unit with provision for advanced mobility training.
- ✓ B.Ed.Special Education - 1st year teacher trainees had undergone a school observation programme for ten days from 4-15 October 2018.

- ✓ Teacher Trainees of I B.Ed. & M.Ed., with two faculty members of Dept. of Hearing Impairment visited Hearing Aid Centre (HAC) and Global Hearing Aid Centre (GHAC), Coimbatore from 30 October to 1 November 2018.

INTERNSHIP/ TEACHING PRACTICE

- ✓ Teacher trainees of D.Ed., B.Ed., Special Education and Integrated B.Ed.-M.Ed. (ID) have undergone teaching practice in various special/ inclusive schools in and around Coimbatore city during the following period
 - 6th to 31st August 2018.
 - 4th to 30th October 2018.
 - 28 January - 19 February 2019.

FACULTY MEMBERS AS RESOURCE PERSON AND MEMBERS OF VARIOUS COMMITTEES

Sl. No.	Name	Details
1	Dr. P. Ramakrishna, Asst. Professor	As a member of Southern Zone III Attended the All India Zonal Co-ordination Committee Meeting of RCI India at International Centre, New Delhi
2	Mrs. K. Rajeswari, Sign Language Interpreter	As a member of RCI Inspection Team at Navajeevan College of Education, Nandyal (AP)
3	Dr. P. Ramakrishna, Asst. Professor	As a member of RCI Inspection Team at Padmavathi Mahila Visva Vidyalayam, Tirupathi and CRC of NIEPMD, Secunderabad
4	Dr. P. Ramakrishna, Asst. Professor	As a member of RCI Inspection Team at Seva Trust for the Blind, Ranebennur, Karnataka
5	Dr. P. Ramakrishna, Asst. Professor	As a Resource Person in a 5-day Continuous Rehabilitation Education (CRE) programme organized by Sri Padmavathi Mahila Viswavidyalam, Tirupati

6	Mrs. M. Senthilvani, In Charge, Speech Therapy Unit	As a subject expert at Maa Sarada Cerebral Palsy Centre of Sri Ramakrishna Ashram, Rajkot, Gujarat
7	Mrs. K. Dhanalakshmi, Incharge, Lowvision Unit Mrs. Kamakshamma Murthy, Asst. Professor & Mr. P. Satish Kumar, In Charge, Braille Production Unit	As Resource Persons at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
8	Dr. Saumya Chandra, Asst. Professor	As a subject expert at Expert Committee Meeting for Curriculum Development, National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai
		As a Resource Person at Sri G.V.G Visalakshi College For Women in collaboration with Cheshire Homes Coimbatore, Udumalpet
9	Dr. S. Parween & Dr. J.B. Dheesha, Asst. Professors	As Resource Persons in Continuous Rehabilitation Education (CRE) programme on Training in Orientation and Mobility (Primary Level) organized by Kerala Federation of the Blind, Karimpuzha, Palakad,

SPORTS ACTIVITIES

Annual Sports day was conducted on 9 March 2019. The following events were conducted for teacher trainees.

Sl. No.	Boys	Girls
1	Long Jump	Throw Ball
2	Shot Put	Bocce
3	Bocce	Badminton
4	Badminton	Medicine Ball Throw
5	100m Running	Basket Ball Dribbling

CULTURAL EVENTS

- Students and staff of FDMSE attended the inaugural function of the celebration of 125th Anniversary of Swami Vivekananda's Historic Speech in the World parliament of Religions at Chicago (1893-2018) on 11 September 2018 held at GKD Auditorium in which the Governor of Tamil Nadu was the chief guest.

EXTENSION ACTIVITIES AND OTHER ACTIVITIES

Faculty development programme was organized at RKMVERI-FDMSE on 29 May 2018. Sri M. Vasudev, Former Director (Southern Region), N.C.T.E., interacted with the faculty members and discussed on the role of teachers in the holistic development of the learners.

- Two staff and one trainee teacher attended a one month **Skill Development Training Program** on 'Fundamentals of Electrical Appliances' organized by SRKV ITI, Coimbatore, from 23 April to 23 May 2018. Mr. K. Anand, Instructor, Vidyalaya ITI, handled theory and practical sessions on functions. The long-term scope of the training program is to implement the independent and productive living of Persons with Intellectual Disabilities at Pre-Vocational Unit, FDMSE.
- A Five-day **Bridge course** was organized for the freshers of B. Ed., M. Ed., Spl. Edn. Programmes from 12 July 2018 to 17 July 2018
- Non-teaching staff attended "**Cancer Awareness and Detection Camp**" on 17 July 2018 at Ramakrishna Mission Vidyalaya College of Arts and Science.
- EnAble India, Bangalore, conducted **Digital Awareness Campaign (mobile)** at FDMSE premises on 30.07.2018. In this programme, visually impaired representatives from Enable India - Mr. Ananth Kumar, Mr. Mohammed Billal, Mr. Vikas and Mr. Junad demonstrated various assistive devices and apps useful to the students with visual impairment. Students with visual impairment from various Vidyalaya institutions, parents and Teacher trainees from the Department of Visual Impairment, took part in this programme
- Inauguration of a Three Months' **Tailoring Training Program for persons with intellectual disabilities** was held on 31 July 2018 at Vocational Training cum

Production Centre, FDMSE in collaboration with SRKV Polytechnic College, Coimbatore and Chennai Petroleum Corporation Limited (CPCL).

- The **Anti-Ragging Committee Meeting** for the academic year 2018-19 was conducted on 09 August 2018 at FDMSE. Heads of the faculties of RKMVERI, Coimbatore Campus, staff and students' representative from each department attended the meeting
- **Convocation** - The 13th convocation of all the four off campus faculties of RKMVERI, Coimbatore Campus was held at the Venkatakrishnan Indoor Stadium on 12 September 2018. In total, 187 graduates received their degrees and diplomas from four faculties, FDMSE-27 (Ph.D.-2; B.Ed Special Education -16& D.Ed Special Education -3; DISLI-6), GAPEY-88 (Ph.D.-8; M.Phil.-5; M.PEd.-12; B.PEd.-40 & B.Sc Physical Education -23), FAR -55 (B.Sc.(Hons) Agri-55) and FyCSAR-17 (M.Sc Computer Science-17)
- An awareness programme on '**Rights of Persons with Disabilities (RPD) Act 2016**' was organised on 10 October 2018 for Parents and Differently Abled Individuals at District Differently Abled Welfare Office (DDAWO), Collectorate campus, Coimbatore.
- A one day **workshop on Revised Assessment and Accreditation Framework of NAAC** was jointly organized by RKMVERI, Coimbatore Campus & SRKV, College of Arts & Science, Coimbatore, on 27.10.2018 at GKD Auditorium. Dr. K. Rama and Dr. C. Vishnukhant, Advisors from NAAC, Bengaluru were the external resource persons.
- **Awareness Program on Rubella Vaccination** - An Awareness Program on Rubella Vaccination was jointly organized by FDMSE and Dept of Social Work, Sri Ramakrishna Mission Vidyalaya College of Arts and Science on 03 November 2018.
- '**Week for Holistic Welfare of the Children**' was organised from 14 to 20 November 2018 in partnership with RKMVERI, Belur Math, Kolkata, (WB) and globally with ARIGATOU International, Japan. Various events like nature walk, art and craft, community orientation, cultural performance, storytelling, field trip, screening wild life movies, practical exposure to adapted yoga and unified sports, and talk on self help skills, safety measures, health and hygiene and environmental care were conducted for children with disabilities.

- **Educational Exhibition** - An educational exhibition on “Rights of Persons with Disabilities (RPD) Act, 2016” was organised on 06.01.2019. The exhibition highlighted the important provisions of the act to create awareness among the public and individuals with disabilities.
- **Vision Screening Camp** - Vision Screening Camp for students with disabilities was organised in collaboration with Aravind Eye Hospital, Coimbatore on 20.02.2019.
- **Training Program on Nutritional Garden** - A One-day training program on Nutritional Garden was conducted in collaboration with SRMV-IARD on 23rd February 2019 for the parents of children with disabilities.

SWACHH BHARAT PROGRAMME 2018

- In connection with World Environment Day celebrations 2018 with theme of “Beat Plastic Pollution”, Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India has drawn up State level programmes and activities which include cleaning of beaches, riverfronts, lakes and other water bodies. As part of the above mentioned programme, Salim Ali Centre for Ornithology and Natural History (SACON) has selected Kumaraswami Lake (Muthanam Kulam), Coimbatore, on 26 May 2018. Eleven trainee teachers from Integrated B.Ed.-M.Ed. (ID); Mr. Som Krishan, Research Scholar, and Dr. S. Logesh Kumar, Asst. Professor, participated and cleaned the plastic waste from the bunds and surrounding premises.
- “Clean Vidyalaya Drives” under Swachh Bharat Programme were organised on 28 May, 08 September & 16 December 2018 respectively.

FAR

PARTICIPATION OF STUDENTS AND STAFF IN VARIOUS ACTIVITIES:

Sl. No.	Programme	Details
1	Sports	Inter-Vidyalaya Tournament Kabaddi, Volley Ball, Foot Ball, Ball Badminton (50 Students) Inter-Vidyalaya Tournament

		Volley Ball (10 Staff)
		Teacher Day celebration sport meet between staff (12 Staff)
		Annual Sports Day (200 Students)
		5 th Swami Vivekananda Trophy (350 Students)
2	Tours/ Excursion	Study Tour (Tamil Nadu- 6 days)
		All India study Tour programme (15 days)
3	Students Field Visits	Biotechnology Unit at TNAU, Coimbatore
		Wind Mill Farm, Udumalpet
		Seed Processing Unit, Udumalpet
		Seed Certification Unit, Coimbatore
		Animal Husbandry unit at TNAU, Coimbatore
		Forest College and Research Institute, Mettupalayam
		Farmers Market, Regulated market, TUCAS, Coimbatore
		Stored pest of agricultural products in regulated market in Coimbatore
		Horticultural farms in Nilgiris regarding diseases of horticultural crops
		Integrated Farming System, Thudiyalur, Coimbatore
4	Extension Programme	RAWE Exhibition (60 Students)
5	NSS Camp	Five-day NSS camp at KVK, Thekkampatti village (62 Students)
6	Eye Camp	Conducted at Idikkarai village in coordination with Lotus Eye Foundation and 75 peoples benefited
7	Veterinary Camp	Conducted at Selvapuram village and around 50 farmers livestock were inspected

TRAINING PROGRAMMES CONDUCTED:

Sl. No.	Name of the Faculty	Training programme
1	Dr. S. Suresh Assistant Professor (Agrl. Entomology)	<ul style="list-style-type: none">• Training on Integrated Pest Management in vegetables at Kinathukadavu village. 50 farmers participated got benefited• Training on Integrated Pest Management in coconut at Nanjundapuram village. 50 farmers participated and got benefited
2	Dr. K. Vinoth Kumar Assistant Professor (Envi. Sciences)	<ul style="list-style-type: none">• Training on vermicompost production Technology at Thekkampatti village. 40 farmers participated and got benefited
3	Dr. T. Masanaselvam Assistant Professor (Agrl. Extension)	<ul style="list-style-type: none">• Training on azolla cultivation at Kalipalayam village. 30 farmers participated and got benefited.• Training on Coco biovite tonic and its uses to the coconut farmers at Naikenpalayam village. 60 farmers participated and got benefited.
4	Mr. M. Rajkumar Assistant Professor (Agronomy)	<ul style="list-style-type: none">• Training on Integrated Farming System at S.S. Kulam. 40 farmers participated and got benefited• Training on Maize Cultivation Practices at Saravanampatti village. 65 farmers participated and got benefited• Training on Dryland Agriculture at Karamadai village. 25 farmers are participated and got benefited
5	Mr. S. Chandraprakash Assistant Professor (Plant Pathology)	<ul style="list-style-type: none">• Training on Disease Management in Maize at Therkkupalayam village. 20 farmers participated and got benefited

GAPEY**PARTICIPATION OF STUDENTS AND STAFF IN VARIOUS SPORTING COMPETITIONS:**

Sl. No.	Activities	No of Students
1	Archery (All India Competition)	04
2	Athletics (All India Competition)	07
3	Badminton (South Zone Competition)	07
4	Ball Badminton (All India Competition)	08
5	Boxing (All India Competition)	04
6	Football (South Zone Competition)	20
7	Handball (South Zone Competition)	16
8	Hockey (South Zone Competition)	16
9	Kabaddi (South Zone Competition)	12
10	Kho-Kho (South Zone Competition)	12
11	Taekwondo (All India Competition)	02
12	Tennis (South Zone Competition)	05
13	Volleyball (South Zone Competition)	12

OTHER MISCELLANEOUS INFORMATION

Physics

Name of Faculty – Dr. Shamik Gupta

(a) Chosen to be the Guest Editor of a Special Issue on Long-range Interactions and Synchronization of the IOP journal J. Phys. A: Math. Theor. (2018). (b) Appointed as Associate of the Institute of Mathematical Sciences (IM. Sc.), Chennai for the period 2019 – 2022.

(b) A unique **International Ph. D. opportunity** in Theoretical Statistical Physics under supervision of Dr. Shamik Gupta and under cosupervision of Dr. Edgar Roldan, International Centre for Theoretical Physics (ICTP), Trieste, Italy. The advertisement appears at:

<http://physics.rkmvu.ac.in/international-Ph. D.-opportunity>

Computer Science

Swami Dhyaganagamyanda was awarded Ph. D. in Computer Science on 10 Jan 2019 by Indian Statistical Institute, Kolkata.

Sports Science and Yoga

a) On 31 Oct, 2018, Revered Swami Smarananandaji Maharaj, President of the Ramakrishna Math and Ramakrishna Mission inaugurated the New Building 'Atma-Vikas' meant for Sports Science, Yoga & Fitness Centre in the presence of a large number of monks of the Ramakrishna Order, Department's Faculty and students at the Belur Main Campus, Well-wishers, and devotees. The building also houses major laboratories required for research in the field of Sports Science and Yoga.

b) Dr. Asis Goswami, the UNESCO Chairholder, has initiated collaborative academic exchange programme with the Department of Physiology and the Department of Sports Science of Calcutta University. Memorandum of Understanding is being processed between the two universities for collaborative academic and research activities. The students of Sports Science courses had attended classes at the RKMVERI campus.

c) A team officials and professors from Visva Bharati, a Central University, visited the RKMVERI campus on 28 June 2018 to discuss possible academic collaboration in form of student exchange and holding of Joint Conferences & Workshops. The work related to these activities are in progress.

d) Memorandum of Understanding was signed with the following organizations for mutual learning and exchange activities

i) FEDERAZIONE ITALIANA YOGA, Italy. (Italian Yoga Federation)

ii) Krishnamacharya Yoga Mandiram (KYM), Chennai

IRDM

➤ Reunion at the IRDM faculty centre

IRDM Faculty Centre celebrated its second REUION (*Phire-Dekho*) on **14 April, 2018** at the Narendrapur Centre of RKMVERI. A total of 120 alumni covering all the courses viz. M. Sc. ARD, M.Sc AgBT and PG Diploma in Agro-based Biotechnology attended the event.

➤ Technical visit of farmers

A farmers' team from Puri, Orissa has visited Post Harvest and Food Technology Department, IRDM Faculty Centre, Narendrapur on **4 January, 2019**. Mr. Prasenjit Kundu, SMS (Horticulture) of KVK and Mr. Soumitra Bhattacharjee of IRDM Faculty Centre coordinated the programme. Mr. Bhattacharjee demonstrated and explained the farmers about the different instruments and processes in food processing units.

IRTDM

- ✓ The faculty centre released three issues of e-magazine – *Krishaka Devo Bhava*.
- ✓ Participating in the *Swachh Bharat* movement, the faculty centre observed the last Saturday of every month as a mark of *Swaccha Bharat Abhiyan* by organizing short speeches and campus cleaning activities.

FDMSE

SCHOLARSHIP

- ✓ Thirty seven students with visual impairment studying in various Vidyalaya institutions including three teacher trainees of FDMSE who are visually impaired received scholarships from Blind Foundation of India, US and Dr. Manorama Ben, Rajkot, to meet with their educational expenses. Cheques were distributed them on 18 July 2018
- ✓ Cognizant Foundation Scholarship Felicitation Ceremony was held at FDMSE, on 26 February 2019. Ms. Rajashree Natarajan, Chief Operating Officer, Cognizant Foundation, Chennai, distributed cheques to the following candidates.

S. No.	Name	Department & Year	Amount
1	P. Tamil Mani	I year - B.Ed. Spl. Ed. (Visual Impairment)	Rs. 35000
2	S. Shanmugapriya	I year - B.Ed. Spl. Ed. (Hearing Impairment)	Rs. 35000
3	R. Hithya	I year - B.Ed. Spl. Ed. (Mental Retardation)	Rs. 35000

STATE AWARD

Mrs. K. Dhanalakshmi, In-charge of Low Vision Unit, FDMSE, received the State Level Best Teacher Award (for Teaching Students with Visual Impairment) of the year 2016. This award was given by Dr. V. Saroja, Hon'ble Minister for Social Welfare and Nutritious Noon Meal Programme, on the occasion of International Day of Persons with Disabilities on 3 December 2018 at Chennai, on behalf of Government of Tamil Nadu.

DETAILS OF VARIOUS MEETINGS HELD

• IQAC Meeting

First IQAC meeting of 2018-19 for all the four faculties of RKMVERI, Coimbatore-Campus was held on 1 June 2018 at GAPEY Conference Hall.

Second IQAC meeting of 2018-19 for all the four faculties of RKMVERI, Coimbatore-Campus was held on 29 December 2018 at IARD Conference Hall.

- **Board of Studies Meeting**

Board of Studies Meeting for the academic year 2018-19 was conducted on 2.6.2018.

- **Academic Council Meeting**

Academic Council Meeting was held on 8 June 2018 for the four Off-Campus Faculties of RKMVERI, Coimbatore-Campus at Central Office Seminar Hall.

- **IEC Meeting**

Institutional Ethics Committee Meeting was held on 10 July 2018 in GAPEY Conference Hall.

- **Finance Committee Meeting**

Finance Committee Meeting for all the four faculties of RKMVERI, Coimbatore campus was held on 12.04.2018, at Central Office Seminar Hall.

- **Passing Board Meeting**

Passing Board Meetings were conducted on 29 May 2018 and 10 December 2018 at Central Office, SRK Vidyalaya.

- **Alumni Meeting**

The Second Alumni Meet of RKMVERI-FDMSE, was conducted on 10 February 2019 at FDMSE, Assembly Hall. Staff members and alumni participated in the Vidyalaya Foundation day function conducted at GKD Auditorium, on the same day.

OTHER INFORMATION

- ✓ Dr. S. Logesh Kumar, Asst. Prof., cleared the UGC NET examination in July 2018.
- ✓ Ms. Nandita Chakraborty, Ph.D., Scholar, cleared State Eligibility Test conducted by Tamil Nadu State, in 2018

FAR

Rural Agricultural Work Experience - RAWWE Programme

During the year 2018-19, 60 final year students were placed in groups of 10 students in different villages for 90 days, primarily to gain first-hand knowledge about the rural situations, status of agricultural technologies adopted by farmers and farmers' problems and to develop skills and attitude of working with farmers for all-round development of rural area.

GAPEY

ACHIEVEMENTS AND AWARDS

Dr. M. Ramajayam

- ✓ Received the Research Ratna Award of the year 2019 awarded by IJRULA & Rula Awards & Medical Research Council - Awarded for the outstanding contribution in the field of research - at a ceremony held at Trichy on 26th Feb 2019
- ✓ Received the award for Best Professor in Physical Education-2019 - awarded by IJRULA & Rula Awards & Medical Research Council - at a ceremony held at Trichy on 26th Feb 2019

Sasya Shyamala Krishi Vigyan Kendra



SASYA SHYAMALA KRISHI VIGYAN KENDRA

Ramakrishna Mission Vivekananda Educational and Research Institute

At- Arapanch, P.O.-Sonarpur, Dist.- S. 24 Parganas, Kolkata-700150

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**Report for the period from
1 April 2018 to 31 March 2019**

INTRODUCTION:

Krishi Vigyan Kendra (KVK) is a frontline extension institute established by the Indian Council of Agriculture Research (ICAR), Ministry of Agriculture, Government of India for a district, for transfer of technology in the field of agriculture, horticulture, animal husbandry, aquaculture etc. '**Sasya Shyamala' Krishi Vigyan Kendra** has been newly established for the district of South 24 Parganas under the aegis of ***Ramakrishna Mission Vivekananda Educational and Research Institute*** as the 2nd KVK in the district. This is as per the policy decision of the Government of India to establish additional KVKs in the larger districts of the country.

Sasya Shyamala Krishi Vigyan Kendra is a new KVK established in 2013 with young, energetic, enthusiastic and dedicated fellow Subject Matter Specialists in different disciplines. The KVK is now actively engaged in dissemination of technologies to the farmers, farm women and rural youths and development of farm sector in South 24 Parganas district. This is the first of its kind in the Zone-II in order to facilitate providing better technology service to the farming community of the district, located at Arapanch, P.O.-Sonarpur, Dist.-South 24 Parganas, Kolkata-700150, and four km. away from Sonarpur Railway Station by the side of the Sonarpur – Ghatakpukur Road.

It came into existence through promulgation of ICAR notification no. F.No.6-1/2010 AE-1 dated 28th February, 2013. However, activities of this new KVK were started from November, 2013. It has been vested upon important responsibilities of developing socio-economic condition of farming community of South 24 Parganas district through its mandated activities on organization of on-farm trials based on farmers' problems, vocational training in agriculture and allied enterprises, frontline demonstration on major cereals, oilseeds, pulses and other enterprises related to agriculture, horticulture, fisheries, animal husbandry, quality seed and planting material production for the farmers.

MANDATE OF THE KVK:

Assessment, Refinement and Demonstration of Technologies and Technology products.

ACTIVITIES OF THE KVK:

Based on the mandates following activities have been defined for the KVK -

(a) On-Farm Testing (OFT) to assess the location specificity of agricultural technologies under various farming systems.

(b) Frontline Demonstration (FLD) for out scaling farm innovations and to showcase the specific benefits/worth of technologies on farmers' fields.

(c) Training for capacity development of farmers, farm women, rural youths and extension personnel to update their knowledge and skills in modern agricultural technologies and enterprises.

(d) Knowledge and Resource Centre for improving overall agricultural economy in the operational area.

(e) Conduct frontline extension programmes and provide farm advisories using Information Communication Technology (ICT) and other media on varied subjects of interest to farmers.

(f) Documentation, characterization and strategic planning of farming practices.

(g) Production of quality seed and planting materials of different field and horticultural crops, fish seed, kids, chicks, ducklings etc.

(h) Provide soil health cards to the farmers

Jurisdiction of 'Sasya Shyamala' Krishi Vigyan Kendra:

Out of 29 blocks of South 24 Parganas following 14 blocks are under the jurisdiction of the newly established 'Sasya Shyamala' KVK for its intensive activities:

Sl. No.	Name of the Sub-division	Blocks under Sub-division
1	Alipore (Sadar)	Bishnupur-I, Bishnupur-II, Budgebudge-I, Budgebudge-II and Thakurpukur-Maheshtala
2	Baruipur	Baruipur, Sonarpur, Bhangar-I and Bhangar-II
3	Diamond Harbour	Falta
4	Canning	Canning-I, Canning-II, Basanti and Gosaba
Total	4 Sub - Divisions	14 Blocks (out of 29 Blocks in the District)

THRUST AREAS IDENTIFIED:

- ✓ Introduction and dissemination of HYVs and improved management practices for major crops, improved breeds of livestock and Integrated Farming System.
- ✓ Technology dissemination for Improvement of Soil health and reclamation of saline soil.
- ✓ Introduction and extension of technologies and contingency plan to mitigate the losses for natural calamities and in flood prone areas.
- ✓ Promotion and recommendation of high value crops and enterprises for better income generation of farmers.
- ✓ Production of quality seed and planting materials of different crops and supply to the farmers.
- ✓ Scientific composite fish culture, air-breathing fish farming and ornamental fish culture for better income and alternative livelihood option of fishermen communities.
- ✓ Promotion of income generation through non-conventional fishery with culture of Bhetki, Parse, Khaira etc.
- ✓ Biodiversity conservation and culture extension of indigenous endangered fish species viz. Punti, Maurala etc.
- ✓ Promoting scientific backyard poultry farming by women SHGs and introduction new poultry breed with special reference to layer birds.
- ✓ Propagation of ornamental bird rearing by SHGs and its linkage to market.
- ✓ Productivity enhancement of farm animals by scientific cross breeding programme.

FUNCTIONAL LINKAGE WITH DIFFERENT ORGANIZATIONS:

Name of organization	Nature of linkage
National Fisheries Development Board (NFDB)	Organizing sponsored exposure visit of fish farmers
State Agriculture Management & Extension Training Institute (SAMETI), West Bengal	Attending training programmes organized by SAMETI as resource person.
Agricultural Training Centre (ATC), R K Mission Ashrama, Narendrapur	Attending training programmes organized by ATC as resource person; organizing On-campus training programme of KVK
Department of Agriculture, Department of FPI and Horticulture, Department of Animal Resource Development, Department of Fisheries, Govt. of WB	Implementation of projects under Agricultural Technology Management Agency (ATMA) & Rashtriya Krishi Vikas Yojna (RKVY); Member of different district level committees
Central Institute of Fisheries Education (CIFE)	Consultation regarding programme implementation in the field of fisheries
West Bengal University of Fisheries & Animal Sciences (WBUAFS)	Organizing exposure visit of M. F. Sc. students
National bureau of Soil Survey & Land Use Planning (NBSS & LUP) Regional centre, Kolkata	Organising sponsored training programme under Tribal Sub Plan (TSP)
Agricultural Technology Management Agency (ATMA)	Project implementation, Programme implementation in the district
Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar	Establishment of Portable hatchery, fish seed
Central Institute of Brackish water Aquaculture (CIBA) Chennai, Research Station, Kakdwip	Exchange of ideas
Central Inland Fisheries Research Institute (CIFRI), Barrackpore	Exchange of ideas

ACTIVITIES DURING THE YEAR IN A NUTSHELL

On-Farm Trial				Front Line Demonstration			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Target	Achievement	Target	Total achieved	Target	Achievement	Target	Total achieved
14	14	88	98	31	49	251	448

Training		Extension activities	
Number of Courses	Number of Participants	Number of activities	Number of participants
142	4679	82	4204

Training for Practicing Farmers and Farm women

Thematic Area	No. of Courses	No. of Trainees		
		M	F	T
Crop Production	16	351	217	568
Horticulture	11	178	157	335
Soil Health and Fertility Management	17	471	181	652
Livestock Production and Management	10	41	329	370
Plant Protection	10	276	100	376
Fisheries	9	208	62	270
Production of Inputs at site	6	166	36	202
TOTAL	79	1691	1082	2773

Training for Rural youth

Thematic Area	No. of Courses	No. of Participants		
		M	F	Total
Mushroom Production	3	44	72	116
Seed production	5	117	51	169
Vermi-culture	1	0	24	24
Value addition	1	11	12	23
Ornamental fisheries	3	60	30	90
Pearl culture	1	30	0	30
Fish feed preparation & its applicatn	1	21	9	30
Bhetki culture	1	15	20	35
Mud crab fattening	2	40	15	55
Magur Seed Production	1	15	20	35
Climbing perch culture	1	25	0	25
Air breathing fish culture	3	55	35	90
Others (Homestead Production of Bio Control Agents)	3	43	43	88
Piggery	1	0	20	5
Poultry production	1	2	8	22
Ornamental birds	1	0	0	20
TOTAL	29	478	359	857

Training for Extension personnel

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Techniques of collection and preparation of soil samples for soil testing	2	3	2	5	48	6	54	0	0	0	51	8	59
Seed Production	3	44	30	74	23	0	23	3	0	3	70	30	100
Productivity enhance-ment in fisheries through Best Management Practices	1	15	10	25	5	5	10	0	0	0	15	20	35
Integrated Pest Management	1	6	0	6	12	0	12	0	0	0	18	0	18
Management in farm animals	1	0	1	1	6	16	22	0	0	0	6	17	23
TOTAL	8	68	43	111	94	27	121	3	0	3	160	75	235

Sponsored training programmes:

Title	Duration (days)	No. of courses	Total				Sponsoring Agency
			Others	SC	ST	Total	
Training for farmers under NFSM-CC-Jute	1	1	46	3	1	50	Directorate of Jute Development, Kolkata

Precision farming	1	1	31	9	0	40	IIT, Kharagpur
Refresher training on Nutritional gardening	2	1	24	17	4	45	ADA, Budge Budge-I
Refresher Training Course on Modern Innovative Techniques in Agriculture	3	1	6	12		18	Coromande l Internation al Ltd
Soil Health Management for Sustainable Agriculture	3	1	22	0	8	30	RKVY
Soil Health Management for Sustainable Agriculture	3	1	15	0	15	30	RKVY
Soil Health Management for Sustainable Agriculture	3	1	30	0	0	30	RKVY
Fish Disease and its treatments	3	1	0	30	0	30	RKVY
Fresh water fish Disease and its treatments	3	1	10	10	10	30	RKVY
Brackishwater Fish Disease and its treatments	3	1	10	15	5	30	RKVY
Indian Carp Disease and its treatments	3	1	12	18	0	30	RKVY
Ornamental fish Disease and its treatments	3	1	10	20	0	30	RKVY
Shrimp Disease and its treatments	3	1	10	10	10	30	RKVY
Ornamental fish breeding and culture	5	1	10	15	5	30	ICMARD- Kolkata
Advance aquaculture practices for entrepreneur and NGOs	5	1	10	25	5	40	MANAGE- Hyderabad
	44	15	246	184	63	493	

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		M	F	T	Male	Female	Total	Male	Female	Total
Field Day	10	317	90	407	6	1	6	323	91	414
Kisan Mela	1	2021	1591	3612	12	8	20	2033	1599	3632
Film Show	21	330	150	480	4	1	5	334	151	485
Method Demonstrations	6	177	22	229	1	0	1	178	22	230
Group meetings	6	247	92	339	1	0	0	248	92	340
Lectures delivered as resource persons	25	881	336	1210	6	0	6	887	336	1213
Advisory Services	940	1139	208	1347	0	0	0	1139	208	1347
Scientific visit to farmers field	157	523	142	665	0	0	0	523	142	665
Farmers visit to KVK	276	439	239	678	0	0	0	439	239	678
Diagnostic visits	24	23	10	33	4	0	4	27	10	37
Exposure visits	4	88	14	102	3	0	3	91	14	105
Animal Health Camp	1	20	55	75	0	0	0	20	55	75
Self Help Group Conveners meetings	2	20	20	40	0	0	0	20	20	40
Mahila Mandals	2	0	40	40	1	0	1	1	40	41

Conveners meetings										
Celebration of important days (specify)	2	222	149	371	11	4	15	229	152	381
MahilaKisan Divas	1	0	55	55	0	0	0	0	55	55
Farm Clinic (23.07.18)	1	55	73	128	0	0	0	55	73	128
Awareness Generation programme on "Soil health management"	1	40	23	63	0	0	0	40	23	63



VIVEKDISHA –

**An ICT-based Network of
Ramakrishna Mission Vivekananda
Educational and Research Institute**

VIVEKDISHA, a unique service activity of the Ramakrishna Mission is an information and communication technology (ICT)-based network of Ramakrishna Mission Vivekananda Educational and Research Institute. It provides single window-based services like online education from secondary to undergraduate level, online teachers' training, Spiritual Heritage programmes, teachers' workshops and research programmes. It supports students, teachers and researchers through its interactive website. During 2018-19, Vivekdisha served more than 16000 students through its multimedia-based interactive online classes which were held six days per week.

The regular programmes of VIVEKDISHA are run in 25 remote centres and are monitored from the University expert centre at Belur Math.

VIVEKDISHA is conducting classes for:

- ✓ 22 Schools affiliated to West Bengal Board of Secondary Education.
- ✓ 19 schools affiliated to West Bengal Council of Higher Secondary Education.
- ✓ 2 schools affiliated to Central Board of Secondary Education (CBSE).
- ✓ 1 school affiliated to Andhra Pradesh Board of Secondary Education.

ONGOING ACTIVITIES:

1. ONLINE CLASSES:

Physics, Chemistry, Mathematics, Biology, Value Education, and Communicative English for students of the level of classes six to twelve are taught mostly through multimedia presentations i.e., through texts, pictures, animations, real visual clips, video recordings from laboratory or operation theatres to make teaching-learning process more effective, joyful and fruitful.

The medium of instruction is Bangla and English. VIVEKDISHA also facilitates conducting chemistry and economics classes for under-graduate students from USA and UK.

2. OTHER FACILITIES PROVIDED BY THE VIVEKDISHA WEB-SITE:

The VIVEKDISHA web-site facilitates students of schools, colleges, and universities to take practice tests in different subjects at various levels. The questions are set in English and other Indian languages as well. Some edited videos of the online classes and some projects on various science subjects are available on the web-site. A 360° Studio provides a panoramic view of any place. It also provides an e-library which is a repository of valuable books with pictures, supporting documents, and important information.

3. CONTENT GENERATION:

The contents of the multimedia presentations of different science subjects at the school and college levels were developed in Bangla or in English in order to fulfil the needs at local, national, and international (for students from Bangladesh) levels. The content of the lessons was developed, based on the syllabi of the Boards of education of various states as well as the Central Board.

Concept building and integrating different topics with the context of the lessons has been the main focus point of content generation.

4. SPIRITUAL HERITAGE PROGRAMME FOR INTERNATIONAL AUDIENCES:

VIVEKDISHA fulfills the spiritual need of the devotees residing abroad by enabling them to log in to the online classes from their homes. At present bilingual classes on “Sri Sri Ramakrishna Kathamrita” (The Gospel of Sri Ramakrishna) and “Srimad Bhagavad-Gita” are conducted to which people from United Arab Emirates, United States of America, United Kingdom, Canada, and Germany regularly log in.

5. PREPARATION OF INTEGRATED SCIENCE TEXT BOOKS INCORPORATING CONTEMPORARY RESEARCH FINDINGS:

VIVEKDISHA has prepared the contents for four books in Bangla which facilitates the building up of the fundamental concepts of science among students with an integrated approach, relating to various other subjects.

6. VALUE EDUCATION:

Students of various age groups were exposed to multimedia presentations depicting the universal message of Sri Ramakrishna and Swami Vivekananda, along with a facility for interactive discussion.

