

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 2017-18

(01 April 2017 to 31 March 2018)

1. 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.

2. 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.

2(A) Special Features of Faculty of Disability Management and Special Education (FDMSE) Coimbatore Campus, Tamil Nadu:

The Faculty of Disability Management and Special Education (FDMSE) is located in the Ramakrishna Mission Vidyalaya, Coimbatore, a major education center of the Ramakrishna Mission.

FDMSE is playing an active role in the field of disability management for last three decades. It offers comprehensive services to persons with various disabilities. It caters to the educational and vocational training needs pertaining to persons with disabilities. The Faculty offers training not only to the personnel seeking knowledge in training of persons with disabilities but also to the persons with disabilities who seek training in areas such as Computers, Braille, Abacus, Orientation & Mobility, Sign Language.

IHRDC - Vidyalaya Unit for the Persons with Disabilities and its up gradation to DMSE

The International Human Resource Development Centre for the Disabled (IHRDC) was established in 1984 with the primary objective of producing Braille books for blind children and later on upgraded to an independent international institute of full-fledged human resource development in disability management in the year 2001. The Ministry of Human Resource Development, Government of India, as per its notification dated 5 January 2005, based on the recommendation of the University Grants Commission (UGC), accorded a University - status to our International Human Resource Development Center for the Disabled (IHRDC) in the Ramakrishna Mission Vidyalaya, naming it as the Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI). Later the name of the institute was coined as Ramakrishna Mission Vivekananda University (RKMVU), having its Headquarters at Ramakrishna Mission, Belur Math, West Bengal with its Department of Disability Management and Special Education (DMSE) in the Vidyalaya, Coimbatore after receiving official communication from University Grants Commission.

Vision of FDMSE:

The aim of FDMSE is to translate the vision of Swami Vivekananda into action. The vision of FDMSE is based on the fact that the strength of persons, of even those with disabilities, can be aroused for constructive purposes by professionally trained teachers. The Faculty believes that by strengthening the hearing ability of visually impaired person, visual ability of hearing impaired person, motor ability of mentally retarded persons and cognitive ability of persons with locomotor disability through well trained professionals, seemingly impossible results may be achieved. The human resource development of a country is directly linked to the level of education of its citizens. Special efforts are to be taken to bring the disabled populations under the umbrella of education to tap their potential and make them contributing members to the society. Without providing education for the disabled children we cannot claim to have provided education to all. In

order to train teachers to take up this important work of educating children with special needs, DMSE is offering courses in Special Education.

Mission of FDMSE:

- Offering training programme at all levels for preparing personnel and professionals for special education and rehabilitation programmes, catering to the needs of persons with visual impairment, hearing impairment and mental retardation.
- Organizing short term training programs for preparing multi-purpose rehabilitation workers to serve persons with disabilities.
- Organizing awareness programmes for parents, administrators and public for facilitating effective implementation of service programmes for persons with disabilities.
- Promoting context based models leading to educating all children with disabilities.
- Preparing literature such as handouts and brochures on education and rehabilitation of persons with disabilities.
- Organizing orientation programmes for general classroom teachers for implementing inclusive education programme for the disabled children.
- Promoting research in specific educational and rehabilitation areas, whose results would strengthen development of inclusive schooling and community based rehabilitation programmes.
- Offering continuing education programmes for the personnel working in the field of education and rehabilitation of the disabled.
- Providing guidance & counselling services for persons with special needs to promote education & employment opportunities.

2(B) Special Features of General Adapted Physical Education and Yoga (GAPEY), Coimbatore Campus, Tamil Nadu:

Aims and objective of the Faculty are-

1. Preparing world class teachers in Physical education for General population and Disabled Population.
2. Train persons to become trainer for Special Olympics and Paralympics.
3. Carry out research in the broad area of Physical Education.
4. Disseminate knowledge through peer review publications and study manuals.
5. Train people with disabilities to take part in recreational sports and to perform in competitive sporting events.
6. Integrate Yogic practices as a part of life through various courses and training sessions.

3. The Board of Management of RKMVERI with effect from 31 March 2018:

(1) Swami Atmapriyananda, Vice Chancellor (Chairperson)

(2) Swami Sarvottamananda, Pro-Vice Chancellor

Two Deans of Faculties:

(3) Dr N. Muthiah, Dean of Faculty of Disability Management and Special Education (FDMSE), Coimbatore Campus

(4) Prof Tapash Dasgupta, Dean of Faculty of Integrated Rural Development and Management (FIRDM), Narendrapur Campus

Three eminent academics at the level of Professor, nominated by the Chancellor:

(5) Dr Bimal Roy, former Director, Indian Statistical Institute (ISI) and presently Head, RC Bose Centre for Cryptology and Security, ISI, Kolkata

(6) Dr Sunaina Singh, Vice Chancellor, Nalanda University, Rajgir, Bihar

(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) One representative of UGC: *Yet to receive the name from UGC*

Two teachers (from Professors, Associate Professors):

(9) Prof Sukumar Adhikari, Senior Professor and Head, Dept of Maths, RKMVERI

(10) Dr Abhijit Bandyopadhyay, Associate Professor, Dept of Physics, RKMVERI

One teacher of the rank of Assistant Professor

(11) Dr Avijit Dutta, Assistant Professor, Faculty of Integrated Rural and Tribal Development and Management (IRTDM), Ranchi (Morabadi)

Four nominees of the Sponsoring Society (Ramakrishna Mission):

(12) Swami Bodhasarananda, Assistant General Secretary, Ramakrishna Mission

(13) Sri Sunil Kumar Barnwal, IAS, Principal Secretary to the Chief Minister of Jharkhand

(14) Dr Ishwar Acharya, Director, Central Council of Research in Yoga and Naturopathy, Ministry of AYUSH, Government of India, New Delhi

(15) Sri M. Saravanan, IAS, PS to the MoS, Dr Jitendra Singh, Govt. of India, New Delhi

(16) Swami Kaleshananda, Controller of Examinations, Main Campus of RKMVERI, Belur (Permanent Invitee)

(17) Swami Kirtipradananda, Registrar (ex-officio Secretary of the Board of Management)

4. Courses and Programmes Offered:

(i) Faculty of Disability Management and Special Education (FDMSE) at Coimbatore campus:

FDMSE offers the following programmes in regular mode approved by Rehabilitation Council of India (RCI), New Delhi. State government norms are followed for reservations in admissions:

- (a) B. Ed., M. Ed., M. Phil., and Ph. D. in Special Education (Hearing Impairment, Visual Impairment and Mental Retardation),
- (b) Diploma in Special Education (Hearing Impairment, Visual Impairment and Mental Retardation).
- (c) Diploma in Sign Language.
- (d) Certificate Course in Theatre Arts and Holistic Development (CTHAD)- Interdisciplinary Part-time Course.
- (e) Certificate Course in Assistive Technology (CCAT) for the Persons with Disabilities - Interdisciplinary Part-time Course.

(ii) Department of General & Adapted Physical Education and Yoga (GAPEY) at Coimbatore campus:

Courses offered:

- (a) B.P.Ed., M.P.Ed., & Ph. D. (Bachelors, Masters and Doctorate respectively in Physical Education),
- (b) M. Phil (Master of Philosophy) in Physical Education,
- (c) D.P.Ed. (Diploma in Physical Education),
- (d) B. Sc. in Physical Education.

Part-time Courses:

(e) Certificate Courses in:

- (i) Yoga
 - (ii) Fitness
 - (iii) Tennis
 - (iv) Kalari
 - (v) Adapted Physical education
 - (vi) Aerobics
 - (vii) Special Olympics (offered only in summer)
- (f) Diploma in Aerobics
- (g) Diploma in Yoga.

(iii) Faculty of Agricultural Education and Research (FAR) at Coimbatore campus:

Courses offered:

- (a) B. Sc. (Agriculture) - 4 year course in Regular mode.

(iv) Department of Integrated Rural Development and Management (IRDM) at Narendrapur Campus:

Courses offered:

- (a) M.Sc. and Ph.D. in 'Agriculture and Rural Development (ARD)'
- (b) M.Sc. and Ph.D. in 'Agricultural Bio-technology (AgBT)'
- (c) Ph. D. in Environment and Disaster Management

(v) Department of Integrated Rural & Tribal Development and Management (IRTDM) at Ranchi Campus:

Courses offered:

- (a) Five-year Integrated M.Sc. [3yr B.Sc. (Hons.) +2yr M.Sc.] in 'Agriculture, Rural and Tribal Development (ARTD)',
- (b) Two-year M. Sc. in 'Agriculture, Rural and Tribal Development (ARTD)'
- (c) Ph.D. in 'Integrated Rural & Tribal Development and Management (IRTDM)'

(vi) Department of Sanskrit at Belur Campus:

Courses offered:

- (a) Five-year integrated M.A. course in Sanskrit Studies at Belur main campus,
- (b) Integrated M.Phil-Ph.D. in Sanskrit Studies
- (c) Certificate course in Preliminary Sanskrit

(vii) Department of Physics at Belur Campus:

Courses offered:

- (a) M. Sc. in Physics and Ph. D. in Physics

(vii) Department of Mathematics at Belur Campus:

Courses offered:

- (a) M. Sc. in Mathematics and Ph. D. in Mathematics

(ix) Department of Computer Science at Belur Campus:

Courses offered:

- (a) M. Sc. in Computer Science and Data Science
(b) Ph. D. in Computer Science and Data Science

(x) Department of Sports Science and Yoga at Belur Campus:

Courses offered:

- (a) Ph. D. in Sports Science
(b) P. G. Diploma in Yoga
(c) Certificate Courses in Yoga

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

Certificate courses in:

- ✓ Srimad Bhagavad Gita
- ✓ Katha Upanishad & Isha Upanishad
- ✓ Bhagavatam
- ✓ Spiritual 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

REPORT OF ACTIVITIES:

**ANNUAL REPORT OF
VARIOUS
DEPARTMENTS / UNITS**

**FOR THE PERIOD
01 APRIL 2017 TO 31 MARCH 2018**

DEPARTMENT OF SANSKRIT, BELUR CAMPUS

Students' Admissions:

	Programme	Number of students admitted
1.	M.A. (Integrated) in Sanskrit	23
2.	M.Phil. & Ph.D. (Integrated) in Sanskrit	4

Students Passed Out:

	Degrees awarded	Number of students who were awarded the degrees
1.	M.A. in Sanskrit	11
2.	M.Phil. in Sanskrit	4

Students' Competitions and Cultural Events - Participants and Prize Winners:

	Competition/Event	Participants and Prizes
1.	Inter-University Sanskrit Debate Competition on Kalidasa at Kalidasa Samiti, Vikram University, Ujjain, Madhya Pradesh (4 th Nov 2017)	Uttam Ghosh (Third with Bronze Medal)
2.	Sanskrit Elocution on Sw. Vivekananda in RKMIC, Golpark (8 th Nov 2017)	Pritam Bera (First) Rajesh Adhikari (Second) Tapas Khanra (Third)
3.	State Level All India Elocution Contest and Shalaka Pariksha (Organised by Rashtirya Sanskrit Sansthan), Sri Sitaram Vaidic Adarsha Sanskrit Mahavidyalaya, Kolkata - 700 035 (9 th to 10 th Nov 2017)	Shubhankar Samanta Koushik Giri Shubhadeep Das Rahul Maity Sukhdev Shau Biswarup Bej Sankha Shubhra Gachchhit Avijit Ghosh Tirthankar Dey Tapas Khanra Shanti Ghosh Deepjyoti Layek Subhjit Das Subhankar Das Pravat Kumar Mondal Anupam Maity Pritam Bera Amit Kumar Sahoo Saibal Acharya Arupam Sanyal Basudev Gorai

		Pralay Nandi Bulet Mandal Pankaj Raul Lohit T.
4.	All India Brahmasutra-swaminarayana-bhashya-shalaka-spardha at Akshardham, New Delhi (15 th to 17 th Dec 2017)	Uttam Ghosh (First) Subhadeep Das (Fourth)
5.	Youth Day Celebrations Commemorating 150 th Birth Anniversary of Sister Nivedita, at Ramakrishna Math, Baranagar (9 th Jan 2018)	All the first year boys of the 2017-18 academic year participated.
6.	National Level All India Elocution Contest and Shalaka Pariksha (Organised by Rashtirya Sanskrit Sansthan), Ekalavya Compus, Agartala, Tripura (18 th to 21 st Jan 2018)	Subhadeep Das (Third in Nyaya-bhashanam) Subhankar Das (First Grade in Veda-shalaka)
7.	Akhila Bharatiya Samskrita Chhatra Pratibha Samaroha, organised by the Vagvardhini Parishad of Rashtriya Sanskrit Vidyapeetha, Tirupati (31 st Jan 2018 to 3 rd Feb 2018)	Bulet Mandal Chandan Mukherjee Manamoy Manna Pankaj Raul Pritam Bera Shubhajit Mahata Shubhadip Pal Shubhankar Barman Sukhdev Shau
8.	Elocution Competition during Sri Chaitanya Janmotsav and Mela, Gaudiya Mission, Baghbazar (5 th Feb 2018)	Buddhodev Ghosh Sourav Porel Debjyoti Kundu Anupam Maity

List of Seminars, Guest Lectures etc. Conducted by the Department:

	Name of the Seminar/Workshop	Date	Venue	Subject-matter of the programme	Number of Resource Persons	Number of Participants
1.	National Workshop on Navya-nyaya	16 th to 19 th August 2017	Medha Bhavan, RKMVERI	1. Navya-nyaya-pravesha, 2. Nanya-nyaya-prayoga, 3. Navya-nyaya-parampara	7	75
2.	Three Day National Seminar on Sanskrit	29 th to 31 st Jan 2018	Vivekananda Sabhagriha, RKMVERI	1. Sanskrit Knowledge Traditions related to Philosophy and Literature, 2. Use of Sanskrit in Communication and Computation, 3. Contributions of	32	398

Guest Lectures:

	Guest Lecturer	Date and Time	Venue	Subject	Attendees
1.	Prof. Lalita Chakraborty	5 th to 6 th July 2017	Medha Bhavan, RKMVERI	1. Abhijnana-sakuntalam, 2. Nyaya-vaisheshika-darshanam	All the students and Faculty of the Sanskrit Department.
2.	Ms Jillian Haslam, IRIS Home Fragrance & Culture Monks	6 th Sept 2017, 1.30 PM to 2.30 PM	Medha Bhavan, RKMVERI	The Secret to Persistence & Gaining a Rock-steady Focus on Achieving Your Goals	All the students and Faculty of the Sanskrit Department.
3.	Prof. Madhav M. Deshpande, Professor of South Asian Literature and Linguistics, University of Michigan, Ann Arbor, USA	7 th Feb 2018, 7.00 PM to 8.30 PM	Medha Bhavan, RKMVERI	On Sanskrit and the arenas open to it in the American academic institutions.	All the students and Faculty of the Sanskrit Department.

Faculty Meeting:

Faculty Meeting-1

Date: 8th November 2017

Venue: Office of the Head of the Department, Dept of Sanskrit Studies.

A meeting of the faculty members of the Department of Sanskrit Studies, was held on 8th November 2017, at 4 pm in the office of the Head of the Department, to discuss the following agenda:

1. End Semester Examination dates for the semester.
2. Syllabus for the next semester, ie. Jan-June 2018 Semester.
3. Members of the Board of Studies, Sanskrit Department.
4. Agenda proposal for the Board of Studies Meeting to be held in the last week of November 2017.
5. A seminar to be held in January 2018 on Sanskrit to commemorate the 150th Birth Anniversary of Swami Abhedanandaji Maharaj.

Faculty Meeting-2

Date: 29th November 2017

Venue: Rev. Vice-Chancellor Mj's Office, Medha Bhavan, RKMVERI.

A meeting of faculty members of the Department of Sanskrit Studies was convened ad hoc on 29th November 2017, to discuss the logistics and structure of the Seminar to be held in January 2018 to commemorate the 150th Birth Anniversary of Swami Abhedanandaji Maharaj. All the faculty members were in attendance.

New Permanent Faculty:

Shri Dr. Vishwanath Dhital joined as an assistant professor in the Department of Sanskrit Studies on 1st January 2018. He used to be a visiting faculty in the Department earlier on a number of times.

Launching of Communicative Sanskrit Courses:

As per the discussions in the Meeting of M.Phil. And Ph.D. Scholars and Faculty on 13th December 2017, Communicative Sanskrit Courses were launched in three levels – Preliminary, Intermediate and Advanced – **on 4th February 2018**. The Coordinator for the courses was Dr. Vishwanath Dhital, assisted by three Joint-Coordinators who were Saibal Acharya, Joydeb Dinda and Amit Kumar Dey, respectively.

Ashtavadhanam at Belur Math:

Date: Friday, 23rd February 2018, from 1 pm to 4 pm.

Venue: Main pandal near Shri Ramakrishna's Temple, Belur Math.

Ashtavadhanam is an ancient Indian art form that demonstrates wonderfully the enormous powers of the human mind. It is not a mere scholarly performance, but a tremendous *sadhana* born of one pointed application of mind.

Ashtavadhani Vidwan Dr Venkataramana Bhat, Asst. Prof., Dept of Sanskrit Studies, RKMVERI, Belur Math, is an expert in this unique art form. He began performing at the age of 19 and over the years has performed Ashtavadhanam for nearly 160 times in Sanskrit and over 150 times in old and modern Kannada at different places in Karnataka and Andhra Pradesh. Ashtavadhanam consists of eight questioners called *prichhakas* surrounding the main Ashtavadhani who sits in the middle. Four of the *prichhakas* sit on the left and four on the right of the Ashtavadhani. Each questioner has a specific role and has a traditional name for fulfilling this role. The programme was well attended and appreciated by all.

Send-off for Dr. Vishwanath Dhital:

Dr. Vishwanath Dhital, who had joined the Department as a permanent faculty on 1st January 2018, submitted his resignation from the post of assistant professor in the Department on 14th March 2018, in order to join IIT BHU as a faculty member. He was granted the release order on 24th March 2018. On the same day he was accorded a hearty send-off by all the students, faculty members and monks. Dr Dhital left for Varanasi in the evening of the same day.

DEPARTMENT OF COMPUTER SCIENCE (BELUR CAMPUS)

This department offers a two years M. Sc. Degree Programme in:

- (a) Computer Science
- (b) Big Data Analytics (BDA)

Faculty members

1. Prof. Subir Kumar Ghosh (Ph. D.)
2. Swami Sarvottamananda (Ph. D.)
3. Swami Dhyaganamyanda (ME)
4. Prof. Aditya Bagchi (Ph. D.)
5. Dr. Sudipta Das (Ph. D.)
6. Dr. Sagnik Sen (Ph. D.)
7. Br. Sourav (M. Tech.)
8. Dr. Sudeep Mallick (Ph. D.) -- Lab instructor

Appointments

Dr. Tanmay Basu was appointed as an Assistant Professor on 1 Jan 2018.

Br. Mrinmoy was appointed as a monastic faculty on 31 March 2018.

Admission in M. Sc. : 2017

1. Academic session started as early as 1 June 2017. The admission to the M.Sc. BDA got over by 15 May 2017. We admitted 15 students in this second batch, drawing students from Delhi (1), Jharkhand (1), and West Bengal (13). However by 1 July, 8 students left RKMVERI to pursue M. Sc. in Statistics. This batch now has 7 students.

2. Admission to M. Sc. in CS was completed before 15 May 2017. We selected 12 students, and 11 got admitted. Again by July, 6 students left for pursuing M. Sc. in various other colleges citing reasons that the course taught here is either “tough”, and/or not promising campus placements.

Academic honour

National Board for Higher Mathematics, Government of India, has awarded **Prof. Subir Kumar Ghosh** as a visiting professorship for a period of three years from April 2016, for his life time contribution to mathematics.

Journal publications by RKMVERI faculty

1. Pritam Bhattacharya, **S. K. Ghosh**, Bodhayan Roy: *Approximability of guarding weak visibility polygons*. Discrete Applied Mathematics 228: 109-129 (2017)
2. A. Diwan, B. Roy and **S. K. Ghosh**: *Two layer drawings of bipartite graphs*, Electronic Notes in Discrete Mathematics, vol. 61, pp. 351-357, 2017
3. **Sagnik Sen**: *On homomorphisms of oriented graphs with respect to the push operation*. Discrete Mathematics 340(8): 1986-1995 (2017)

4. Julien Bensmail, Soumen Nandi, **Sagnik Sen**: *On oriented cliques with respect to push operation*. Discrete Applied Mathematics 232: 50-63 (2017)
5. Sandip Das, Sasthi C. Ghosh, Soumen Nandi and **Sagnik Sen**: *A lower bound technique for radio k -coloring*, Discrete Mathematics, (2017) 340(5): 855-861.
6. Julien Bensmail, Christopher Duffy and **Sagnik Sen**: *Analogues of Cliques for (m, n) -Colored Mixed Graphs*, Graphs and Combinatorics, (2017) 33(4): 735-750.
7. Sandip Das, Prantar Ghosh, **Swathy Prabhu**, **Sagnik Sen**: *Relative Clique Number of Planar Signed Graphs*. Accepted in Discrete Applied Mathematics (2018)
8. Sandip Das, **Swathy Prabhu**, **Sagnik Sen**: *On oriented relative clique number*. Accepted in Discrete Mathematics (2018)
9. Amarnath Gupta, Subhasis Dasgupta, **Aditya Bagchi**: *PROFORMA: Proactive Forensics with Message Analytics*. IEEE Security & Privacy 15(6): 33-41 (2017)
10. **Sudipta Das**, Debasis Sengupta, and Anup Dewanji: *Optimum release time of a software under periodic debugging schedule* Communications in Statistics - Simulation and Computation, 2017.

Conference publications by RKMVERI faculty

1. Tim Guetterman, Melissa DeJonckheere, Tammy Chang, **Tanmay Basu**, Elizabeth Scrubs and VG Vinod Vydiswaran. *Integrating Natural Language Processing with Qualitative Text Analysis in Mixed Methods Studies with a Large Qualitative Strand*, accepted for publication in Proceedings of the MMIRA International Conference, Vienna, Austria, 2018. Impact Factor: 5.17
2. Sandip Das, Ayan Nandy, **Swami Sarvottamananda**: *Radius, Diameter, Incenter, Circumcenter, Width and Minimum Enclosing Cylinder for Some Polyhedral Distance Functions*. CALDAM 2018: 283-300
3. Sandip Das, Soumen Nandi, **Sagnik Sen**: *On Oriented $L(p, 1)$ -labeling*. CALDAM 2018: 274-282
4. Sandip Das, S.Ranjan Dev, A. Sadhukhan, Uma Kant Sahoo, **Sagnik Sen**: *Burning Spiders*. CALDAM 2018: 155-163

Status of RKMVERI monastics pursuing Ph. D.

Swami Dhyaganamyanda (Swathy Prabhu) submitted his Ph. D. thesis titled '*Variants of Coloring for Oriented Graphs*' in ISI, Kolkata on 14 Feb 2018. Earlier, he enrolled in the Ph. D. programme at ISI in June 2012 after clearing the entrance test and interview for JRF in Computer Science held by ISI Kolkata.

Conferences attended and invited talks delivered by RKMVERI faculty

Swami Sarvottamananda attended the International Conference on Algorithms and Discrete Applied Mathematics (CALDAM) held in Guwahati between 12 and 19 of February 2018. In this conference Swami Sarvottamananda presented his research paper co-authored with two others from ISI Kolkata.

Swami Sarvottamananda delivered a special talk on *Ethics in Research* for the research scholars attending a course on Research Methodologies at ISI, Kolkata in November 2017.

Tanmay Basu delivered the following invited talks.

- *NLP for Knowledge Discovery in Biomedical Text* at IEEE Signal Processing Society, IIT Kharagpur, India in May, 2017.

- *Introduction to Machine Learning* at St Joseph's College, Bangalore, India in November
- Sagnik Sen** delivered the following invited talks
- *Introduction to Discrete Mathematics* in Summer School 2017 on "Algorithms and Optimization" Organized by ACM Unit, Indian Statistical Institute, Kolkata in association with IEEE, CEDA (July 4 to 12, 2017)
 - *Ramsey Theory* in Mathematics Talent Reward Programme (MTRP) on 14 Jan, 2018 (Venue: ISI, Kolkata)

Sudipta Das delivered a talk on *Software Reliability Modeling based on Non-homogeneous Poisson Process with Periodic Debugging Schedule* at Indian Statistical Institute, Kolkata

Prof. S.K.Ghosh delivered the following talks

- *Old and New Algorithms for Guarding Polygons* in Indian Institute of Science, Bengaluru, May 25, 2017.
- *Visibility Graph Theory for Polygons* in the Indo-Canadian School on Algorithms and Combinatorics, IIT Guwahati, Guwahati, February 12-13, 2018.

Prof. Aditya Bagchi delivered the following talks.

- *Normalization in Relational Databases, Why, When & How*, Invited Lecture in the Seminar series on Faculty Development Program, Brainware University, Barasat, West Bengal, July 19, 2017.
- *Proactive Forensics - A possible measure against scams in Social Media*, Invited Lecture in Refreshers Course on Understanding ICT for Professional Development at Dept. of IT, Jadavpur University, Dec. 4, 2017.
- *How Friendly is a Friend*, Keynote Speech in Conference on algorithms and applications (ALAP 2018), Kolkata, Jan 10-12, 2018.
- *Interplay of Trust and Risk in Social Media Communication*, Invited Lecture at AI Lab, Development Consultant, Kolkata, March 28, 2018

RKMVERI Faculty visting/teaching at other Institutions

Prof. Subir Kumar Ghosh taught a part of the course (15 lectures) on "Computational Geometry" to B.Tech and M.Tech students of IIT, Kharagpur in computer science as an Adjunct Faculty during January-May 2017. He visited the Department of Computer Science and Automation, Indian Institute of Science, Bangalore, during May-June 2017. He also taught a part of the course (15 lectures) on "Approximation and Online Algorithms" to B.Tech and M.Tech students of IIT, Kharagpur in computer science as an Adjunct Faculty during July-December 2017.

Workshop conducted by RKMVERI

Department of Computer Science conducted a one day workshop on Big Data Analytics on 24 Feb to cater to the undergraduates in CS, Maths, Physics, Statistics, and engineering regarding the scopes and career oportunities in this burgeoning field of computing. Six speakers including **Dr. Bimal Roy** (Prof at ISI) were invited from academia and industry to deliver talks. There was an overwhelming response for this workshop drawing 300 applications, of which we could honour only 125 due to limited availability of seats. The feedbacks collected from the participants gave a good indication of how well the workhop was received and it also expressed the need for holding more such workshops on this subject matter in near future. Department of CS is now planning to hold the second in this series of workshop in the month of June 2018.

Department infrastructure development

A state of the start Cisco speaker tracking video conferencing equipment was installed in the Prajna Bhavan Seminar room. Purchase and installation of the equipment costed 36 lakhs INR. The entire project was funded by Tata Consultancy Services (TCS).

Students' Summer Project (May-June 2017)

The CS and BDA students were encouraged to carry out a 1½ month summer project on a topic of their choice. The students were diligently guided by the inhouse faculty. At the completion of the project each student was given 30 minutes for presentation, demonstration, and cross-questioning. The MSc BDA students were able to showcase the outcome of these projects during their internship interview held by TCS in November 2017, which by the way served as a proof of these students' abilities to carry out technical projects. It is note worthy that **Dr. Sudipta Das** guided a group of 6 MSc BDA students.

Students' M.Sc. Project (Jan-June 2018)

In Jan 2018, 15 MSc BDA students of 2016-18 batch were admitted at TCS for carrying out a one semester internship programme, which carries 8 credits and fulfills the MSc Project course requirement. The students are expected to report back at RKMVERI within first week of June 2018, and make a detailed presentation of their project work carried out during their internship. Each student will be required to submit a detailed project report as a partial fullfilment towards qualifying for MSc degree.

The M. Sc. Comp. Sc. students and two of the M. Sc. BDA students are carrying out in-house projects guided by RKMVERI faculty. A short report of the students' projects under the supervision of the faculty member **Dr. Tanmay** is given in the annexure.

Research collaboration

A research collaboration was initiated between University of San Diego (USD) and RKMVERI in the area of "Proactive Forensics" when **Prof. Aditya Bagchi** of RKMVERI visited USD in January 2017. Three of our M.Sc. students in Computer Science are now working towards their MSc project in this area.

Students visiting other institutions

1. Our students of MSc CS get to credit at least two courses in ISI during their degree programme. In the July-December 2017 semester it was arranged with ISI, Kolkata that second year MSc computer science students credit two courses, namely Optimization techniques, and Graph and Combinatorial algorithms alongside the MTech students in ISI.
2. MSc BDA students of 2017-19 batch are currently crediting a course in Advanced Statistics taught by an ISI professor at ISI, Kolkata.

Invited talks

1. Prof. Nicola Santoro from Carleton University while visiting ISI kolkata, was invited to RKMVERI to deliver a talk on Introduction to Distributed Computing in Dynamic Networks on 7 Dec 2018.
2. Dr. Amarnath from University of San Diego was invited to deliver a talk on AWESOME: Enabling Heterogeneous Analytics on Heterogeneous Data on 1 Feb 2018.
3. Dr. Paromita Saha (National Centre for Biological Science) delivered a talk on Journey of a dataset: analysing behavioural response in social insect colony.

Academic positions currently being held by RKMVERI faculty

Prof. Subir Kumar Ghosh holds the following positions.

1. Chairperson, Steering committee, Conference on Algorithms, and Discrete Applied Mathematics (CALDAM). This year CALDAM, was held in IIT Guwahati, Guwahati, during February 15-17, 2018.
2. Member of the organizing committee for Indo-Canadian School on Algorithms and Combinatorics, IIT Guwahati, Guwahati, February 12-13, 2018.1
3. President, Association for Computer Science and Discrete Mathematics
4. Member, UGC Expert Committee for reviewing Gandhigram Rural Institute
5. Member, UGC Expert Committee for reviewing Chennai Mathematical Institute
6. Member, UGC Expert Committee for reviewing LMN Institute of Information Technology
7. Adjunct Professor of the Department of Computer Science and Engineering, Indian Institute of Technology, Kharagpur.

Swami Dhyaganagmyananda became a member of program committee in March 2018 for CALDAM-2019.

Tanmay Basu is a program committee member of PReMI 2017, CVIP-WM 2017 and NAACL-HLT 2018, Health NLP Workshop 2018.

Prof. Aditya Bagchi is a program committee member in the following conferences and symposium.

1. 5th International Doctoral Symposium on Applied Computation and Security Systems (ACSS-2018), Kolkata, India, February 09-11, 2018.
2. 17th International Conference on Computer Information Systems and Industrial Management Applications, Olomouc, Czech Republic, September 27-29, 2018.
3. 14th International Conference on Information Systems Security, ICISS 2018, Indian Institute of Science, Bengaluru, India, December 16-20, 2018.

Review of Journal Papers by RKMVERI faculty

Professor Subir Ghosh has reviewed research papers of the following journals.

1. Discrete Applied Mathematics
2. Journal of Computational Geometry
3. Theoretical Computer Science
4. Computational Geometry: Theory and Applications

Sagnik Sen has reviewed research papers of the following journals.

1. The Mathematical Reviews (MR) Database, American Mathematical Society
2. Discrete Mathematics

Tanmay Basu has reviewed research papers in the Journal of the Association for Information Science and Technology, Wiley.

Supervision of ongoing Ph. D. work

1. **Prof. Subir Ghosh** is currently supervising the Ph.D. work of Pritam Bhattacharya of IIT, Kharagpur as a co-guide.
2. **Prof. Aditya Bagchi** is currently supervising the PhD work of Suvam Kumar Das, an assistant professor of Techno India Ltd, Kolkata, who is also a registered PhD student in RKMVERI.

Annexure

State of the art projects in machine learning supervised by **Tanmay Basu**

A. Sentiment analysis over social media

The objective of this work is to automatically understand and summarize the conversations of a particular community over social media using NLP and machine learning techniques, so as to easily comprehend the discussion among the peers. Only a few researchers around the world are working in this topic, however we are focusing only on the social media conversations regarding health-care.

The machine learning group at RKMVERI is working in collaboration with some researchers in Department of Learning Health Sciences, University of Michigan, Ann Arbor, USA to build this tool. We posted different questions as short message text to different adolescent pregnant women in Ann Arbor area and collected their replies. Further NLP and machine learning techniques are applied to summarize the reactions. The automatic annotations are then compared with the manual annotations.

We are also working with some clinicians from School of Public Health, University of Michigan, who are responsible for data creation and manual annotation of the conversations. Therefore we would reach a consensual decision after some rounds of such manual annotation. In principle, the automatic tool will guide the manual process. The model is evaluated on a completely different set of data using the manual annotations. We have published the results in a conference on a number of questions and also submitted a paper to Journal of Medical Internet Research to explain the proposed method and results.

B. Early detection of anorexia

The machine learning team at RKMVERI has participated in ERISK-2018 challenge-1. ERISK stands for early detection of risks. The task here is to detect anorexia and depression by analyzing the blog posts over Reddit 2, a social media. Anorexia is a kind of eating disorders and many times people suffer a lot due to their ignorance about the symptoms of the disease. Patients with anorexia demonstrate a refusal to maintain minimally normal body weight (e.g., the actual weight is less than 85% of the expected weight), an intense fear of weight gain, and a disturbance in the perception of body shape and weight. The objective here is to automatically identify these types of symptoms from the data using machine learning techniques for early detection of anorexia. The given corpus contains the blog posts over Reddit. A part of the corpus is manually labeled by the domain experts, known as training set. The training set is divided into two categories - anorexia and non anorexia. The aim is to train a machine learning classifier using the

training set to identify anorexia of the blog posts of other part of the corpus, for which the ground truths are not provided. Therefore the performance of the classifier will be evaluated by the organizers using the ground truths after the deadline. We have developed several machine learning frameworks by using different feature engineering schemes to identify discriminative characteristics of anorexia to improve the performance of the classifier. The work of finding the best framework is underway.

C. Qualitative analysis on text classification and text clustering techniques

Text classification is the problem of assigning predefined categories to the new text documents by using the information from the existing documents in those predefined categories. A growing number of statistical learning methods have been applied to this problem in recent years. K-nearest neighbor (kNN) decision rule is one of the most fundamental, simple and effective method for data classification. It is very useful for text classification and it has comparable performance to various other text classification methods. However, the method has some limitations, e.g., predicting a valid k is difficult for text data. We are working towards finding a novel method to overcome these limitations of kNN decision rule for text classification. We have developed some ideas in this direction and got some results. However, the work is still in progress. We are working on another problem on text clustering. Text clustering methods partition a set of documents into different clusters such that the documents in the same cluster are more similar to each other than documents in different clusters according to some similarity or dissimilarity measure. The existing text clustering algorithms determine the content similarity of a pair of documents for putting them into the same cluster. Thus the performance of a text clustering algorithm is mainly dependent on the similarity measure. There are some limitations of these content similarity measures. In this work, we have introduced a content similarity measure to improve the effectiveness of the spectral clustering technique, a type of text clustering methods. The proposed framework is tested on some standard corpora. The results are reasonable. However, we still have to improve in terms of tuning some parameters of the proposed similarity measure.

DEPARTMENT OF PHYSICS, BELUR CAMPUS

M. Sc. Students

On the basis of the M. Sc. entrance exam held on 18th March, 2017, the following students were admitted to the two-year M. Sc. (Physics) program of the department

- Ajoy Bhattacharjee
- Ashutosh Palai
- Atanu Roy Chowdhury
- Dipak Maity
- Ritwick Sarkar
- Saikat Mondal
- Sayantan Dindia
- Sourav Mondal
- Susovan Giri
- Tathagata Roy
- Tridip Kundu

The following students are pursuing their M. Sc. (3rd and 4th semesters) in the department

- Akash Ghosh
- Avishek Ray
- Ayan Adhikari
- Doyel Rakshit
- Indranil Mukherjee
- Rakesh Ghosh
- Santu Prasad Jana
- Shishir Biswas
- Shubhranil Maity
- Shuvam Kumar Mondal
- Somnath Majumder
- Somnath Porey
- Sourjyadeep Chakraborty
- Subhankar Biswas
- Sudipta Moshat
- Sumitava Kundu
- Susmita Jana
- Joy Ganguly
- Nilasha Maiti

The following students graduated from the department

- Abhik Ghosh Moulick [*Qualified: GATE*] [*Presently at: Jawaharlal Nehru University, Delhi (Project fellow)*]
- Abhishek Chowdhuri [*Qualified: GATE*]
- Aniruddha Chakraborty [*Qualified: JEST(PhD)*]
- Arnab Bera [*Qualified: GATE, JEST(PhD)*] [*Presently at: NISER, Bhubaneswar (PhD student)*]
- Arnab Seal [*Qualified: NET(LS), JEST(PhD)*]
- Arpan Chatterjee [*Qualified: NET(JRF), JEST(PhD)*] [*Presently at: IISER, Kolkata (PhD student)*]
- Kartik Panda
- Pradeepta Kumar Ghose [*Qualified: GATE, JEST(PhD)*][*Presently at: Indian Association for the Cultivation of Sciences, Kolkata (PhD student)*]
- Rahul Karmakar
- Samit Kumar Hazra [*Qualified: GATE*]
- Saswata Chakraborty
- Soheli Mukherjee [*Qualified: NET(JRF), GATE, JEST(PhD)*][*Presently at: NISER, Bhubaneswar (PhD student)*]
- Sovan Saha [*Qualified: NET(LS), GATE, JEST(PhD)*][*Presently at: Physical Research Laboratory, Ahmedabad (PhD student)*]

- Subhankar Mukherjee [Qualified: GATE, JEST(PhD)]
- Sucheta Datta

Conferences/workshops organized by the department

1. Workshop in Theoretical Physics December 18-21, 2017

Organizers: **Debashis Gangopadhyay, Abhijit Bandyopadhyay, Shamik Gupta**

Scientific report on the event

The event, modeled as a unique and an intense workshop, featured several expository lectures on frontier areas of research by experts of repute chosen from leading research institutes and universities across India as well as from the host organization, the Department of Physics, RKMVERI. There were both experienced and young researchers delivering lectures in the workshop. On a typical day of the workshop, there were four 1-hour long talks, two in the morning and two in the afternoon, and a 1.5-hour long interactive evening talk as part of a special 5-lecture course. The workshop was aimed at Ph. D., M. Sc. and third-year B. Sc. students. Lectures were delivered on a wide range of topics chosen from as diverse areas as condensed matter physics, gravitation, non-linear dynamics, statistical physics, and quantum computation. Professor N. Mukunda from IISc., Bangalore gave a set of 5 lectures on a topic that is quite foundational, yet rarely discussed in text books on classical mechanics, namely, the topic of Dirac theory of constrained dynamical systems. Professor Mustansir Barma from TIFR, Hyderabad emphasized the importance of fluctuations in bringing about the remarkable universality observed near the critical points of many systems (fluids, magnets ...). An interesting highlight of his lectures was the revelation that although ordering is in general destroyed by fluctuations larger than the average, there are notable exceptions in which a system exhibits the phenomenon of fluctuation-dominated phase ordering, whereby fluctuations and order coexist. Professor Vijay Shenoy from IISc., Bangalore introduced in his lectures the field of topological insulators, a topic of huge recent interest. The key results conveyed in his two lectures were: (i) there are more than one type of band insulators in one dimension, which can be distinguished by the topology of their ground-state wave-functions, and (ii) a summary of the “periodic table of topological phases,” and an exploration of the ten-fold symmetry classification of Fermionic systems.

Professor Arvind from IISER, Mohali lectured on quantum information and quantum computation. He introduced the notion of quantum entanglement and its quantitative measures based on entropy and partial transpose. Further, he introduced the idea behind quantum cryptography protocols. The lectures of Professor Krishnendu Sengupta from IACS, Kolkata were devoted to the area of non-equilibrium dynamics around quantum critical points. In his lectures, he covered the basic aspects of non-equilibrium dynamics of closed quantum systems, and demonstrated that they may have relevance in the physics of ultracold atoms. Professor Ram Ramaswamy from JNU, New Delhi decided to talk about the very interesting topic of collective synchronization in dynamical systems. He described the phenomenon in coupled linear and nonlinear dynamical systems, including those wherein the dynamics is chaotic, when the coupling is linear and nonlinear, and when there is time delay in the coupling. In the wake of recent upsurge in interest in gravitational waves, Professor Pankaj Joshi from TIFR,

Mumbai talked about Black Holes, discussing the current status of research on gravitational collapse of massive stars in the Universe in the framework of Einstein's theory of general relativity, the formation of black holes and naked singularities and their observational, astrophysical and quantum gravity implications. Dr. Shamik Gupta from the Department of Physics, RKMVERI, discussed how one may study theoretically the problem of spontaneous synchronization using tools from dynamical system theory and statistical physics. The talk was planned as a tale of a fascinating journey along a winding path that wanders through mathematical biology, kinetic theory, bifurcation theory, and plasma physics. All the lectures of the workshop have been videotaped and would soon be uploaded to a dedicated YouTube channel. We had arranged for online submission of applications. There was an overwhelming response to our announcement of the workshop, and within the span of less than a month, we received as many as 150 applications from all across India. For logistic reasons, we had to limit the number of participants, which we achieved by making a careful selection based on the academic performance of the applicants. In the end, there were participants from all the leading academic institutions, including the IIT's, the IISER's, NISER, IISc., IACS, SNBNCBS, St. Xavier's, Calcutta University, JNU, Jadavpur University, Presidency University, RKM Vivekananda College Chennai, IEST, NIT, University of Hyderabad, etc. In addition, there were Ph. D. as well as first and second year M. Sc. students from the Department of Physics, RKMVERI who participated in the workshop. The total number of students, both local and outstation, who attended the workshop was 55. A particularly appreciated aspect of the workshop has been the opportunity that the participants and the lecturers had to engage in animated discussions. The workshop was rather timely, allowing for a fast dissemination of recent progress in theoretical physics across various disciplines to young researchers, thereby contributing significantly towards the outreach efforts of the hosting organization. All the lecturers sent back very encouraging feedback on the workshop, emphasizing in particular the fact that they were very glad to observe that the participants did not hesitate to ask questions and clarify their doubts. The participants also expressed a final positive opinion that was well beyond a formal congratulation.

• ***Seminars organized by the department***

Disorder as a probe for spin liquids, Arnab Sen, IACS, Kolkata, 12 March, 2018

Cyclotron Resonance in Astrophysics, Dipankar Bhattacharya IUCAA, Pune, 8 March 2018

Mimicking quantum dynamics using quantum walks, C M Chandrashekar, IMSc Chennai, 5 February 2018

Can current decrease with increasing bias: onset of negative response in non-equilibrium systems, P K Mohanty, SINP, Kolkata, 29 January 2018

Changes large and small: The physics of stochastic resetting, Shamik Gupta RKMVERI, Belur, 6 September 2017

Quantum signature of chaos and thermalization in the kicked Dicke model, Sayak Ray IISER, Kolkata, 21 July 2017

Periodically driven dynamics using two-rate protocols, Satyaki Kar, IACS, Kolkata, 12 February 2017

• **Annual report of activities by the department faculty**

Debashis Gangopadhyay

Publications:

1. *Three Flavoured neutrino oscillations and the Leggett Garg Inequality*, **Debashis Gangopadhyay**, Animesh Sinha Roy [arXiv: 1702.04646] *Euro. Phys. Jour. C* **77** (2017) 260
2. *Semiclassical treatment of k-essence effect on cosmic temperature*, A. Bandyopadhyay, **D. Gangopadhyay**, A. Moulik, [arXiv:1406.2308] *Gravitation and Cosmology*, **23**, no. 2 (2017) 184

Teaching:

1. Quantum Mechanics II (Core course) , Semester 2, January- June 2017
2. Quantum Field Theory II (Elective), Semester 4, January- June 2017
3. Quantum Mechanics I (Core course), Semester 1, July- December 2017
4. Quantum Field Theory I (Core course) , Semester 3, July-December 2017
5. Quantum Computation and Information Theory (Elective), Semester 4, January –June 2018

Ph. D. theses Awarded

1. Mr. Somnath Mukherjee (Teacher at Dharsa Mihirlal Khan Institution[H.S], P.O:-New G.I.P Colony, Howrah) ----- **Ph. D. degree of Jadavpur University 2017**. *Thesis title: "Some studies on cosmic origins of dark matter and dark energy"*
2. Ms. Oindrila Ganguly (SNBNCBS) – **Ph. D. degree of Calcutta University 2018**. *Thesis title: "Lorentz invariance violation : a study in the context of effective theories"*

Ph. D. Thesis Submitted

1. Mr. Animesh Singha Roy (**RKMVU**) – Thesis submitted to RKMVU in November 2017, *Thesis title: "Neutral Kaon Oscillations, Neutrino Oscillations and the Page-Wootters Mechanism in the light of the Leggett-Garg Inequality"*

FACULTY DETAILS:

Abhijit Bandyopadhyay

Teaching

1. Classical Mechanics (1st Sem, 2017-19 Batch)
2. Computer fundamentals and computational Physics (1st Sem, 2017-19 Batch)
3. Particle Physics I (4th Sem, 2016-18 Batch)

Publications

1. Investigating energy transfer between dark matter and dark energy using k-essence cosmology, **Abhijit Bandyopadhyay**, Anirban Chatterjee, arXiv:1709.04334
2. Books edited: Topology and condensed Matter Physics, Texts and Readings in Physics Sciences 19, Hindustan Book Agency

Shamik Gupta

Awards and Honors:

1. On being recognized as "one of the most highly recognized scientists in the early years of their research careers," was selected by the Editorial Board of J. Phys. A as an "Emerging Talent" . One of a group of 32 researchers selected worldwide and the only

Indian to receive this honor. The event is a part of the Journal of Physics (JPhys) series' 50th anniversary celebrations in 2017.

2. Appointed as Professeur Invite at the Laboratoire de Physique, Ecole Normale Supérieure de Lyon, France, 2017.

3. Invited Visiting Professor, University of Florence and University of Rome "La Sapienza", Italy, Fall 2017.

Publications In Refereed Journals

1. **Shamik Gupta** and Stefano Ruffo, Equilibration in the Nose-Hoover isokinetic ensemble:

Effect of inter-particle interactions, Entropy **19**, 544 (2017): Special Issue "Thermodynamics and Statistical Mechanics of Small Systems"; arxiv:1709.06392

2. **Shamik Gupta**, Spontaneous collective synchronization in the Kuramoto model with additional non-local interactions, J. Phys. A: Math. Theor. **50**, 424001 (2017) *Special Issue "Emerging Talents"*; arxiv:1706.06316

3. 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), arxiv:1706.01955

4. **Shamik Gupta**, Jorge C. Leitao and Eduardo G. Altmann, Importance-sampling computation of statistical properties of coupled oscillators, Phys. Rev. E **96**, 012201 (2017); arxiv:1705.01068

5. Edgar Roldan and **Shamik Gupta**, Path-integral formalism for stochastic resetting: Exactly solved examples and shortcuts to confinement, Phys. Rev. E **96**, 022130 (2017); arxiv:1703.10615

6. **Shamik Gupta** and Stefano Ruffo, The world of long-range interactions: A bird's eye view. International Journal of Modern Physics A **32**, 1741018 (2017) (Invited contribution to a special Issue published on the occasion of Abdus Salam's 90th Birthday); arxiv:1703.09689

• In Conference Proceedings

1. Pierfrancesco Di Cintio, Shamik Gupta and Lapo Casetti, Non-thermal states in models of filaments: a dynamical study, To appear in the proceedings of the international conference "Francesco's legacy - Star Formation in Space and Time" Firenze, Italy June 5-9 2017, arXiv:1712.08224.

Invited presentations/talks

1. Driven Quantum Systems, IACS, Kolkata, INDIA, February 19 – 21, 2018

2. Non-equilibrium Dynamics: Diffusion, Populations, and Aging, TIFR Hyderabad, INDIA, June 30 -- July 1, 2017

3. Workshop in Theoretical Physics, RKMVU, INDIA, December 18 – 21, 2017

4. Department of Physics and Astronomy, University of Florence, Florence, ITALY, November 21, 2017

5. Laboratoire de Physique de l'Ecole Normale Supérieure de Lyon, Lyon, FRANCE, June 15, 2017

Scientific visits

1. December 2017: University of Rome La Sapienza, Rome, Italy

2. November-Dec 2017: University of Florence, Florence, Italy

3. June 2017: Laboratoire de Physique de l'Ecole Normale Supérieure de Lyon, France

Teaching at Department of Physics, RKMVU

1. 4-credit 64-hour lecture course on Equilibrium Statistical Mechanics, January-June 2017
2. 4-credit 64-hour lecture course on Nonequilibrium Statistical Mechanics, July-December 2017
3. 4-credit 64-hour lecture course on Equilibrium Statistical Mechanics, January-June 2018

Conference organization

1. Workshop in Theoretical Physics, Department of Physics, RKMVU, December 18 – 21, 2017

Bobby Ezhuthachan

Publications

1. Wald type analysis for spin-one fields in two dimensions, co-authors: Suchetan Das, Nabarun Bera, JHEP **1704** (2017) 160
2. Entanglement Entropy and Kinematic space in BCFT, co-authors: Samrat Bhowmick, Suchetan Das, arXiv:1703.01759

Talks

1. 4 lectures at the "Science academy refresher course at Gangtok University" held in Gangtok between 30th January - 3rd February, 2018.
2. Seminar at NISER in October 2017 titled "OPE blocks, entanglement entropy in AdS₃/CFT₂ via kinematic space"

Teaching

1. Taught Mathematical Methods-I during the July - December semester 2017 and teaching Mathematical Methods-II as well as 2D CFT (elective course) in the January – June semester 2018

Amitava Bhattacharyya

Publications

1. Understanding the antiferromagnetic transition in EuV₂Al₂₀, K. R. Kumar, H. S. Nair, **A. Bhattacharyya**, et al., J. M. M. Materials 452, 205–209 (2018)
2. Multigap superconductivity in ThAsFeN, D Adroja, **A Bhattacharyya**, et al., Phys. Rev. B 96, 144502 (2017)
3. Kondo lattice heavy fermion behavior in CeRh₂Ga₂, V. K. Anand, D. T. Adroja, **A. Bhattacharyya**, et al., J. Phys.: Cond. Matter 29 (13), 135601 (2017)
4. Searching for triplet superconductivity in the Quasi-One-Dimensional Superconductor Cs₂Cr₃As₃, D T Adroja, **A Bhattacharyya**, et al., J. of the Phys. Society of Japan 86, 03470 (2017)
5. Superconducting gap structure in the electron doped BiS₂ – based superconductors, **A Bhattacharyya**, et al., J. of Phys.: Condensed Matter 29, 265602 (2017)

Talks

1. Recent Trends in Condensed Matter Physics (RTCMP 2017), Bose Institute, Broken time reversal symmetry probed by muon spin relaxation in the caged type superconductor Lu₅Rh₆Sn₁₈, Bose Institute
2. Indian Institute of Technology Bhilai: Multigap superconductivity in ThAsFeN investigated using muSR measurements, September 2017

3. S. N. Bose National Centre for Basic Sciences, Kolkata: Broken time-reversal symmetry probed by muon spin relaxation in the caged type Superconductor Sc 5 Rh 6 Sn 18 September 2017
4. Indian Institute of Technology Delhi: Probing Non-Centrosymmetric Superconductors ThCoC 2 with Muons, May 2017
5. Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru: High magnetic transition temperature in CsScSi : A microscopic study, May 2017
6. Indian Institute of Technology Gandhinagar: Neutron scattering and μSR investigations of a quaternary borocarbide PrRh 2 B 2 C , April 2017
7. Indian Institute of Science Education and Research, Tirupati: Muon spin relaxation studies in Unconventional superconductors, March 2017

Mandar Patil (since joining RKMVERI in December 2017)

Publications

1. Ken-ichi Nakao, Pankaj Joshi, Jun-Qi Guo, Prashant Kocherelakota, Hediaki Tagoshi, Tomohiro Harada, **Mandar Patil**, Andrzej Krolak, On the stability of Kerr superspinor, Accepted for publication in Physics Letters B

Talks

1. Meeting of Astronomical Society of India, Hyderabad, February 5 – 9, 2018. Talk given in the session on Gravitation and Cosmology

Sanjoy Biswas

(since joining RKMVERI in November 2017)

Publications

1. "Searching for massless dark photons at the LHC via Higgs production", PoS (EPSHEP2017) **315**, 2017, **S. Biswas**, E. Gabrielli, M. Heikinheimo, and B. Mele. EPS-HEP Conference 2018, 5-12 July, Venice, Italy

Talks

1. Workshop on Top-quark Physics at Present and Future Collider, 27-30 January 2018, IISER Kolkata
2. Sangam@HRI 2018, 5-9 March 2018, Harish-Chandra Research Institute, Allahabad

DEPARTMENT OF MATHEMATICS, BELUR CAMPUS

Departmental Activities

- 1) Five faculty members have joined during the year : Sukumar Das Adhikari, Stephan Baier, Ashish Gupta, Arindam Banerjee and Shameek Paul. Two Post Doctoral Fellows have joined: Sayani Bera and Rajneesh Kumar Singh.
- 2) Four Ph. D. students were selected after interview - they have UGC/CSIR fellowships. Ten M. Sc students were selected for 2017-19. The process of selecting next batch of M. Sc students is on. Arpit Bansal is visiting on deputatin from JNU to work for his Ph. D. under Stephan Baier. Professors D. S. Nagaraj (IMSC, Chennai) and V. Balajai (CMI, Chennai) have been offered Adjunct Professorship and they have accepted the same.
- 3) There is a regular seminar series in the department. Professors Michel Waldschmidt (Paris VI), J. K. Verma (IIT Mumbai), S. M. Srivastava (ISI, Kolkata) and Vijay M. Patankar (JNU) were among the speakers. Our faculty members keep attending conferences in India and abroad: Sukumar Das Adhikari gave a colloquium talk at IISER Pune on 15th December, a seminar talk at Bhaskaracharya Pratishthana Pune on 16th December, and gave invited talks at a couple of conferences at University of Pune and IIT, Ropar. He also visited IMSc, Chennai and HRI, Allahabad for academic purposes.
- 4) Stephan Baier gave an invited talk "Moments of the error term in the Sato-Tate law for elliptic curves" at a Number theory conference at IIT Ropar, December 2017. He also gave a seminar at RKMVERI in March 2018 entitled "The mathematics of piano tuning". He visited UNSW Sydney, in April 2018 and gave a talk "The large sieve with sparse sets of moduli for number and function fields".
- 5) Ashish Gupta went to a Graph Theory conference at ISI Delhi, July, 2017 and attended IAS workshop on differential equations, IISER Bhopal, July, 2017. He also gave invited seminars in CIMPA school in non-commutative algebra, IISER Pune, 2017 and RKM Vidyamandira extension lecture, in Jan, 2018.
- 6) Arindam Banerjee visited IIT Gandhinagar in December 2017 to attend Conference on History of Indian Mathematics, awas an invited speaker in CAAG (commutative algebra and algebraic geometry) at IISER Pune. December 2017, and visited IIT Chennai for academic purpose. He also went to VIASM, Hanoi , Vietnam for the period 15-31 March for research collaboration. Shameek Paul attended the AIS

workshop on 'Grobner Bases and their Applications' in Indraprastha Institute of Information Technology, Delhi from 11th 23rd Dec, 2017.

- 7) Sayani Bera visited ISc Bangalore during 15-20th January, 2018, for academic purposes. Rajneesh Kumar Singh attended the "conference on Algebraic Geometry and Number Theory" during Dec 14 - 20, 2017 at ISI, Bangalore.

Publications:

S. D. Adhikai: (Jointly with R. Balasubramanian, S. Eliahou and D. Gryniewicz) On the degree of regularity of a particular linear equation, To appear in Acta Arithmetica. (Jointly with L. Boza, S. Eliahou, M. P. Revuelta, M. I. Sanz) Numerical semigroups of Szemerédi type, To appear Discrete Applied Mathematics.

Ashish Gupta: (with Phd student A. D. Sarkar) A Dichotomy for the GelfandKirillov Dimensions of Simple Modules over Simple Differential Rings, Algebras and Representation Theory,

Arindam Banerjee: (Jointly with V.Mukundan) Homological Algebra of Unmixed Bipartite Graph, Submitted. (Jointly with S. Bayerslan and H.T.Ha) Regularity of Edge Ideals and Their Powers. accepted for Springer Proceedings on Mathematics and Statistics.

S. Bera: Examples of non-autonomous basins of attraction-II (to appear), Journal of the Ramanujan Mathematical Society, <http://jrms.ramanujanmathsociety.org/in-publication/in-publication-list/examples-of-non-autonomous-basins-of-attraction-ii>

Stephan Baier, Arpit Bansal and Rajneesh Kumar Singh: Divisibility problems for function fields, available as <https://arxiv.org/abs/1803.07457>

Stephan Baier and Rajneesh Kumar Singh: arge sieve inequality with power moduli for function fields, available as <https://arxiv.org/abs/1802.03131>.

Stephan Baier, Arpit Bansal: The large sieve with power moduli for $\mathbb{Z}[i]$, arXiv:1802.08964 [pdf, ps, other]

Stephan Baier: (With Vijay M. Patankar) Applications of the square sieve to a conjecture of Lang and Trotter for a pair of elliptic curves over the rationals, arXiv:1710.02125 [pdf, ps, other]

DEPARTMENT OF INTEGRATED RURAL DEVELOPMENT AND MANAGEMENT (IRDM), NARENDRAPUR CAMPUS

▪ Classes and Examinations

Time	Semester/Course	Events
January to May 2017	Semester-II (2016-2018) and Semester-IV (2015-2017) of both MSc ARD and MSc AgBT	Classes and research work
3-30 June 2017	Semester-II (2016-2018) and Semester-IV (2015-2017) of both MSc ARD and MSc AgBT	Semester Ending Examinations
18 August to 22 September 2017	Semester-III (2016-18) of MSc AgBT	Learning through Organisational Attachment (LOA)
6-21 September 2017	Semester-III (2016-18) of MSc ARD	Rural Living and Learning Experience-II
July to November 2017	Semester-II (2016-2018) and Semester-IV (2015-2017) of both MSc ARD and MSc AgBT	Classes and research work
7-30 December 2017	Semester-I (2017-19) and Semester-III (2016-18) of MSc ARD and MSc AgBT	Semester Ending Examinations
13 January to 12 March 2018	Semester-IV (2015-2017) of MSc ARD	Learning through Organisational Attachment (LOA)

▪ Admission to the M.Sc. courses

The Entrance Test for admission to the M.Sc. ARD and M.Sc. AgBT courses was held at the IRDM Faculty Centre of RKMVU on **10 June 2017**. This year, 122 and 118 applications were received for the M. Sc. ARD and M.Sc. AgBT courses respectively. Among these, 88 and 85 applicants were shortlisted for personal interview. Finally, 25 students for both the courses were selected. The admission took place up to **24 June 2017**.

▪ **Activities/Events/Visits**

1. Dr. Samarth Chandra delivered an interesting talk on the role of “Electric impulse in solute movement in plants and also in neurons” on **8th May, 2017** at IRDM Faculty Centre, Narendrapur. Dr. Samarth Chandra did his B. Tech and PhD from IIT-Delhi and TIFR respectively. He was a post-doctoral fellow from NIH, USA.
2. Rishikalpa Bhattacharya, an undergraduate student of Rural Development from Tata Institute of Social Sciences did his internship at the IRDM Faculty Centre during **May 2017**.
3. Dr. Naba Kumar Duary, Research Associate (Cultural) at the Anthropological Survey of India delivered a lecture on “Traditional Knowledge of Common People” on **13 June 2017** at the IRDM Faculty Centre. The lecture was followed by the screening of a documentary on ‘Bene Putul workers’.
4. Twelfth Anniversary Celebration of the Foundation and Annual Convocation of the University was held on **4 July 2017** at the Central Auditorium of Ramakrishna Mission Ashrama, Narendrapur, Kolkata 700103. Dr. Trilochan Mohapatra, Director-General, Indian Council of Agricultural Research, and Secretary, Department of Agricultural Research and Education, Government of India, was present as the Guest-in-Chief and delivered the convocation address. Swami Sarvalokanandaji, Secretary, Ramakrishna Mission Ashrama, Narendrapur and Administrative Head, IRDM Faculty Centre, delivered the Swami Vimuktananda Memorial Address. This year, 16 MSc ARD students, 17 MSc AgBT students, and two PhD AgBT students received certificates. Ms. Swagata Mondal MSc ARD course and Ms Anupama Mukherjee of MSc AgBT course received the gold medal for securing first position in their respective classes.
5. Under European Commission sanction of Erasmus Plus project “Strengthening Education Research and Innovation in Environmental Health in Central Asia”, a training programme was organized by the coordinating Institute (University of Milano) from **3-21 July 2017**, inviting participants from the partner institutes. Ramakrishna Mission Vivekananda University (RKMVU) was invited to participate in the programme as a project partner. The training programme covered three universities of Europe, namely the University of Milano, Italy (2 to 8 July), the University of Tartu, Estonia (9 to 15 July) and the Technical University of Berlin, Germany (16 to 23 July). Two senior research fellows, Jayashree Sen, PhD Research Scholar, School of Environment and Disaster Management and Tandra Mondal, PhD Research Scholar, Department of Agriculture and Rural Development represented the RKMVU and they were the only participants from India, among 22 participants from Europe and Central Asia. The course content covered

different topics on occupational and environmental health, such as basic research skill, the RISK 21 framework, pesticides risk assessment, methods for studying extreme temperature health effects, indoor environment and health, E-Learning Tools. Training programme involved about 15 international faculty members. The training programme was very useful both on the content and learning methods and this exposure can be utilized in their own research and also to the benefit of the university's academic programmes.

6. An orientation of faculty and staff members of the IRDM Faculty Centre on National Assessment and Accreditation Council (NAAC) was held at the IRDM F/C on **11 and 12 August 2017**. Swami Kirtipradananda, Deputy Registrar of RKMVU explained the data requirements and mentioned the related documentations that need to be done. A follow up meeting is proposed during the third week of September 2017.
7. Mr. Somdev Mukherjee, District Coordinator, District Health and Family Welfare Samiti, Howrah, took a session on Rural Health Management on **19 August 2017** at the IRDM Faculty Centre.
8. The students of the Semester-III (2016-18 batch), MSc AgBT are on their Learning through Organizational Attachment programme from **18 August to 22 September 2017** at different Agricultural Research and Development organizations.
9. Selected students, research scholars and faculty members of IRDM Faculty Centre attended the lecture titled "From Basic Science to Next Generation Medicine" delivered by Prof. Ada Yonath, Nobel Laureate in Chemistry, 2009 at the Indian Institute of Kolkata on **29 November 2017**.
10. A Gender Sensitization Workshop was held at the IRDM Faculty Centre on **11 December 2017**. The students prepared posters related to the gender issues and presented them in front of the faculty members. The faculty members also addressed the students on diverse gender issues and the students interacted in the event with full enthusiasm.
11. A workshop on "Prospects of Food Processing Industries [fruits and vegetables processing, dairy etc.], ripening system, cold chain etc. in present scenario" was held at the IRDM Faculty Centre on **16th December, 2017**. Experts from academia, food industry and cold chain establishments participated in the workshop and discussed the broader issues of agro-processing and food industry. They expressed high hope about the scope and prospects of a practical-oriented course that may be offered by the Faculty Centre. Dr. Prasanta Kr. Biswas

(Professor, Jadavpur University), Mr. Sarada Prosad Choudhur (Keventer Agro Ltd.), and Mr. Goutam Chatterjee (SREI Infrastructure Finance Limited) were among the twelve participants of the workshop representing different quarters of the post-harvest and food industry.

12. Dr. Tapash Dasgupta, Professor of the IRDM Faculty Centre, takes charge as the Dean of the Faculty Centre on **1 January 2018**.
13. The students and staff of the IRDM Faculty Centre participated in the Tri Celebrations of the Ramakrishna Mission Ashrama, Narendrapur during **26-29 January 2018**. The Faculty Centre hosted a stall featuring the history of the Faculty Centre, its activities and ongoing projects.
14. All the students and staff of the IRDM Faculty Centre attended the address by the Prime Minister of India titled "Young India, New India" via live streaming of MHRD portal on **11 September 2017** at the seminar hall of the IRDM Faculty Centre.
15. Ramakrishna Mission Vivekananda University celebrated the "National Unity Day" on **31st October, 2017** at the IRDM Faculty Centre, Narendrapur. The intent of the event was to pay tribute to Sardar Vallabhbhai Patel, who was instrumental in keeping India united. He was also the first Home Minister and Deputy Prime Minister of India. The program was initiated with 'run for unity' by the students, which was followed by speeches delivered by faculty members. The teachers, students, and staffs jointly participated in the events.
16. Dr. Ranajit K. Samanta, former Vice-Chancellor of Bidhan Chandra Krishi Viswavidyalaya and former Director of National Academy of Agricultural Research Management delivered a popular lecture on "Scientists' Profile of Personality to Win and Excel" on **3 November 2017** at the IRDM Faculty Centre. All the students and staffs of the centre attended the session.
17. A programme on Vigilance Week based on the theme 'My vision – corruption free India' was organized in collaboration with Scientists from Central Research Institute for Jute and Allied Fibers (CRIJAF) on **11 November 2017**. Scientists Dr. Subrata Satpathy, Dr. Soham Ray, and Chief Administrative Officer, Shri Rajeev Lal and two junior scientists represented CRIJAF in this event. A quiz for the students was conducted on the said theme and the winners were awarded cash prizes.
18. Members of the Governing Body of Ramakrishna Mission Ashrama visited the IRDM Faculty Centre on **17 November 2017**. They visited different

laboratories and sections of the Faculty Centre and interacted with the staff of the Centre.

19. Dr. N. Ravisankar, National PI, Network Project on Organic Farming (NPOF) and also Principal Scientist, ICAR-Indian Institute of Farming Systems Research, had a routine visit to the IRDM Faculty Centre at Narendrapur on **21 November 2017**, which is one of the centres of ICAR-funded NPOF project. He was pleased with the progress of the project at Narendrapur and also expressed happiness with our instrumentation infrastructure in the laboratory. However, he suggested to take varietal evaluation experiment at the IRDM Faculty Centre, which requires extra area of land. He also met Swami Atmapriyananda, Vice Chancellor and Swami Shivapurnananda, Assistant Administrative Head and discussed the possibility of upgrading our centre to an All India Coordinated Research Project.
20. A Refresher Training Course on “Improved Technologies for Sustainable Agriculture: Prospects, Opportunities and Challenges” for the field sales team of Coromandel Intl. Ltd. was organised by Sasya Shyamala Krishi Vigyan Kendra at the IRDM Faculty Centre during **14-17 February 2018**.
21. Revered Swamis Atmapriyanandaji Maharaj, Vice-Chancellor of RKMVERI and Swami Kirtipradananda, Registrar (Actg) visited the IRDM F/C during **2-3 March 2018** to help the faculty members in filling up the Self-Study Report and other documents for the NAAC accreditation. They were accompanied by Dr. N. Muthaiah, Dean of the Faculty of Disability Management and Special Education at the Coimbatore Faculty Center of RKMVERI, who has vast experience in NAAC accreditation. Dr. Muathaiah explained the fallacies of the SSR and discussed on the possible improvement of the draft SSR prepared by the staff of the IRDM F/C.
22. International Women’s Day was celebrated by the students and teachers of the IRDM Faculty Centre on **8 March 2018**. The students participated in a debate session and the teachers commented on the significance of the day. The event was followed by the distribution of awards to the winners.
23. Dr. Adam Price, Professor of Plant Molecular Biology, University of Aberdeen, Scotland delivered a talk on “Accurate genetic mapping in rice” on **9 March, 2018** at the Seminar Hall of IRDM Faculty Centre. Students, scholars and faculty members of the Faculty Centre attended the seminar and interacted with the Prof. Price. The Dean of the Faculty Centre discussed the possibility of initiating collaborative program between IRDM F/C and University of Aberdeen.

24. A demonstration-cum-workshop on High-performance thin-layer chromatography (HPTLC) was held at the IRDM Faculty Centre on **10 March 2018**. Students, scientists and faculty members attended the workshop and the resource person from ANCHOR, Mumbai demonstrated the distinguishing features of HPTLC.

▪ **Students' activities/Field works**

Date	Semester / Course	Place / Activities
08.05.2017	M. Sc. AgBT, Semester-II	Visited central instrumentation facility at CSIR-IICB, Jadavpur. They got a chance to get acquainted with world class research environment and instrumentation facility. This definitely helped our students to motivate themselves and also encourage them for pursuing research career in future. The photo of our students appeared in IICB main webpage.
08.05.2017	M.Sc. ARD; Semester-II	Visit to the Anthropological Survey of India, Salt Lake centre to study the distribution of tribe in India and their Racial, Geographical and Economic classification
17.05.2017	M.Sc. ARD; Semester-II	Visited Matherdighi Palli Seba Sadan, a grasroot-level voluntary organization at Canning, South 24 Parganas to identify and study the social problems
23.05.2017	M.Sc. ARD; Semester-II	Visited Sasati Samabay Krishi Unnayan Samity Ltd. to study the functioning of a Co-operative agricultural bank. The students also interacted with the SHG group members of Grameein Swanirvar Prakalpa on the same day.
01.06.2017	M. Sc. AgBT, Semester-II	Presented research article papers from world class journals. This was an excellent opportunity for them to understand and learn to discuss research works published from other research groups.
03.08.2017	M.Sc. ARD; Semester-I	Visited Matherdighi Palli Seba Sadan, a grasroot-level voluntary organization at Canning, South 24 Parganas to have an experience of a rural area and how rural development organizations work with the villagers
31.10.2017	M.Sc. ARD; Semester-III	Visit to Domjur Rural Hospital, Howrah to interact with the BMOH, to study the different units of the hospital, the services provided, the ongoing health related programmes in the block. The students also visited the Sub-centre attached to the rural hospital.

06.11.2017	M.Sc. ARD; Semester-III	Visit to Jana Shikshan Sansthan Unit of RKM-LSP. The students interacted with the Director of the Unit and knew about the activities of the Unit.
06.11.2017	M.Sc. ARD; Semester-I	Visit to Ramkrishna Ashram KVK, Nimpith for understanding the different units of an extension agency, the on-station demonstration of different technologies and different services provided by the KVK
10.11.2017	M.Sc. ARD; Semester-III	Visited an entrepreneurship and vermicompost unit at Amtala, South 24 Parganas. They understood the motivation of commencing an entrepreneurial activity, knew the technicalities of preparing vermicompost commercially and the possible marketing channel of the same.
10.11.2017	M.Sc. ARD & MSc AgBT; Semester-I	Visit to National Bureau of Soil Survey and land Use Planning, Salt Lake City to learn different activities of the centre, to have an idea about the soil testing laboratory of the Bureau, to know about the remote sensing facility of the unit etc.
13.11.2017	M.Sc. ARD; Semester-III	Visited Save Our Soul Children's Village, Salt Lake City, and Valobasa (Swadhar) Home at Madhyamgram. Students knew the eligibility of the children, the functional areas of the Home, the reasons of children's social exclusion, the effect of counseling on them, and the rehabilitation approaches followed by the Home.
21.11.2017	M.Sc. ARD; Semester-III	Visited Sanlaap (a voluntary organization working on child trafficking) to know their various activities in red light areas such as rescuing the victims and mainstreaming them in society. They also studied the different ongoing programmes of the organisation.
26.11.2017	M.Sc. ARD; Semester-III	Visited Tamralipta Guchchha Samity at East Midnapore to have an idea about the model sanitation village and different technologies associated with safe drinking water.
01.12.2017	M.Sc. ARD; Semester-III	Visit to BCKV, Mohanpur, Nadia to gather the technological knowhow of apiculture.
28.11.2017 to 02.12.2017	MSc ARD; Semester-I	Engaged in the fieldwork in the fields of Nanritam (a non-profit organization), Purulia. Studied the culture of villagers, conducted questionnaire survey and PRA. This was followed by a presentation at the faculty centre.
16.02.2018	M.Sc. ARD; Semester-II	Visited Sasati Samabay Krishi Unnayan Samity Ltd. to study the functioning of a Co-operative agricultural bank.

▪ **Learning through Organizational Attachment (LOA)**

The students of the Semester-III of MSc ARD course completed their Learning through Organisational Attachment programme during **13 January – 12 March 2018**. This year, the students were placed at the following organizations –

Sl. No.	Organisation	Students
1	National Institute of Rural Development, Assam	Soumesh Ghosh, Sangita Patra
2	National Innovation Foundation, Odisha	MainakBrahmachari, ManidipaDey
3	Samaj Pragati Sahyog, Madhyapradesh	NilanjanMaity, Rajkumar Das
4	Snehalaya, Ahmadnagar, Maharsashtra	Diya Kundu, Sharmistha Roy Pratihari
5	Child in Need Institute, West Bengal	Rumela Kundu, Madhulina Ghosh, Ayantika Chakraborty
6	Vikramshila Education Resource Society, Kolkata, West Bengal	Megha Roy, Suparna Ash
7	Save Our Soul Children's Village, Kolkata, West Bengal	Shalini Chakraborty, Ahindrila Chakraborty
8	Calcutta Samaritans, Kolkata, West Bengal	SwetabjaPatranabish, NamrotaAnzum Mondal, Debajyoti Bhattacharya
9	Pan Seeds Pvt. Ltd., Kolkata, West Bengal	Surajit Sarkar, Ananda Kumar Baidya
10	Rural Aid, West Bengal	Arkendu Das
11	Aditi Organic Certifications Pvt. Ltd., Bangalore (placed in Bihar)	Arpan Adhikary

The students of the Semester-III (2016-18 batch), MSc AgBT course completed their Learning through Organizational Attachment (LOA) programme during **18 August to 22 September 2017** at different Agricultural Research and Development organizations. They made a presentation on their LOA learning and experience in front of the faculty members on **16 October 2017** at the IRDM Faculty Centre.

▪ **Rural Living and Learning Experience (RLLE)**

The students of the Semester-III (2016-18 batch), MSc ARD course completed their Rural Living and Learning Experience (RLLE) programme during **6-21 September 2017** at different Rural Development organizations of West Bengal. They made a presentation on their RLLE experience in front of the faculty members on **9 and 10 October 2017** at the IRDM Faculty Centre.

▪ **Masters Dissertation Work**

Research work of MSc ARD and MSc AgBT students were conducted during September 2016 to June 2017.

M.Sc. AgBT

Sl. No.	Name	Thesis title
1	ADRIJA BANERJEE	Identification and Characterization of Plant-beneficial Bacteria from <i>Shasyagavya</i> , An Organic Biostimulant
2	ANUPAMA MUKHERJEE	<i>In-slico</i> Study of Integrase Gene of LTR Retrotransposon
3	ARGHA CHAKRABORTY	<i>In vitro</i> Production and Conservation of Rose Apple (<i>Syzygium jambos</i> L.)
4	CHANDRA SEKHAR PAUL	Studies on the Effect of Application of Potassium Fertilizers on the Activity of Some Beneficial Soil Microorganisms in New Alluvial Soils of West Bengal
5	DEBATTAM MAZUMDER	Effect of Organic and Inorganic Nutrient Management on Rice-Broccoli Cropping System in An Inceptisol of West Bengal
6	DEBOJYOTI KAR	Disaggregation of Insulin Aggregates by Acid Hydrolysed Peptides from Stem and Fruit Bromelain Isolated from Pineapple (<i>Ananus comosus</i>)
7	KALYANI DAS	Studies on Molecular Characterization of Whitefly (<i>Bemisia tabaci</i> Genn.) and Selection of Effective Treatment Module for Management of Chilli Leaf Curl Complex
8	PAROMITA BISWAS	Study on Agriculturally Beneficial Soil Bacteria under Organic and Conventional Farming in Rice-French Bean-Sesame Cropping System
9	SANCHARI DAS	Evaluation of Molecular Characteristics of <i>Musa</i> ABB Germplasms
10	SANJOY	Molecular Identification for Confirmation of F1

	MOHANTA	Generation of Asian catfish (<i>Clarias batrachus</i>) and African catfish (<i>C. gariepinus</i>)
11	SAUMASHISH MUKHERJEE	Extraction, Purification & Characterization of Laccase from Microbial Sources
12	SAYANTAN SANTRA	Studies on Some Aspects of Vascular Endothelial Growth Factor (VEGF)
13	SHANTANU PAL	Studies on Mites and Insect Infesting Stored Products including Stored Mushroom and their Control with Bio-Pesticides
14	SOUMI MUKHERJEE	Rhizospheric Microbial Population & Physico-chemical Properties of Soil under Different Nutrient Management Practices in Cultivation of Capsicum
15	SUCHETANA GHOSE	Morphological Characterization & Biosorption Studies of Bacterium Isolated from Bantala Tannery Soild Waste
16	SUDIPTA PATRA	Evaluation of Genotypes on the Basis of Yield & Yield Attributing Characters & Biochemical & Molecular Analysis of Greengram (<i>Vigna radiata</i>)
17	SUPRIYA LAHA	Study on Micropropagation, Phytochemistry & Genetic Fidelity of Commercial Varieties of Ginger

M.Sc. ARD

Sl. No.	Name	Thesis title
1	APURBA SARKAR	Studies on the Impact of Diploma in Agricultural Extension Service for the Input Dealers (DAESI) on Input Enterprise, Advisory Services and Pest Management Practices in
2	ARCHAK GHOSH	A Study of Empowerment of Unmarried Advance Aged Women (Tea Garden Dwellers) from Matiali Tea Garden, Nagrakata, New Jalpaiguri, West Bengal
3	ARIJIT KARMAKAR	Impact of Natural Disaster on Rural Livelihoods: The Case of Cyclone 'Aila' in Selected Area of Sundarbans
4	ARKA DAS	A Rural Open Air Correctional Home - Positive Step Towards Mainstreaming of Offenders
5	ARUNDHUTI DAS	Impact of Natural Disaster on Rural Livelihoods: The Case of Cyclone 'Aila' in Dakshin Shibganj Village of South 24 Parganas
6	DINESH CHAURASIA	A Comparative Study on the Empowerment Status of Elected Hindu and Muslim Women Representatives in Gram Panchayat, Sonarpur Block, South 24 Parganas,

		West Bengal
7	IMAN DEBNATH	A Study on Psychological Determinants for Controlling Fertility Behaviour
8	KESHAB KARMAKAR	Assessment of Present Socio-Economic Status of Crab Collectors in Indian Sundarban
9	RAJASHREE DEY	A Study on the Impact of Knowledge of Anganwadi Workers Regarding Immunization and Nutrition of Young Child and Mothers
10	SAGAR PAUL	A Study on Trafficking of Girls from Mateli Tea Garden Area and their Uncertain Destination
11	SARALIKA GHOSH	The Life and Works of a Septuagenarian Seasoned Bengali Female Domestic Worker
12	SAYED SORFUL HASAN	Estimation of Energetics and GHGs Emission from Different Rice-Based Cropping Systems in Barjora Block, Bankura, West Bengal
13	SHUKLA PARUI	A Study on Sexual Violence Against Muslim Women Living in Santoshpur Slums, Coming from Rural India and Bangladesh
14	SUBHANKAR NASKAR	Assessment of Farm-Level Agriculture Risk Management in Coastal Salt Affected area in Basanti, South 24 Parnanas
15	SUKANYA BANERJEE	A Situational Analysis on Health Status (Physical & Social) of the Adolescent Girls Migrated from Rural India Residing at Slums, Santoshpur, South 24 Parganas District, West Bengal
16	SWAGATA MONDAL	A Situational Study on Indigenous Knowledge Practice in Agricultural Activities in Relation to Climate Change in Pathar Pratima Block in South 24 Parganas District

▪ Placement of the students

Most of the passed out students of the ongoing courses at the Faculty Centre have already been placed at/received placement offers from different organisations. Some others have joined PhD programmes of other universities. The details are given below :

M.Sc. AgBT

Sl. No.	Name of students	Name of the organizations/Universities
1	Adrija Banerjee	Project Assistant, IRDM F/C
2	Anupama Mukherjee	Yet to be placed
3	Argha Chakraborty	Project Assistant, Tea Research Institute, Toklai, Assam
4	Chandra Sekhar Paul	Yet to be placed

5	Debattam Mazumdar	Project Assistant, Presidency University
6	Debojyoti Kar	JRF, IISER-Bhopal
7	Kalyani Das	Prbah, Jharkhand
8	Paromita Das	Yet to be placed
9	Sanchari Das	Agriculture Supervisor, Organi Agro-India Limited
10	Sanjoy Mohanta	Agricultural Officer, Literacy India
11	Saumashish Mukherjee	PhD Scholar, University of Hyderabad
12	Sayantana Santra	Project Assistant, SERB-Project, RKMVU
13	Shantanu Pal	Project Manager, Parmarth Samajsevi Sansthan, Jhansi
14	Soumi Mukherjee	Field Officer, Agricultural Insurance Company of India Limited
15	Suchetana Ghose	Project Assistant, IIT-Guwahati
16	Sudipta Patra	Product Development Trainee, Pan Seeds
17	Supriya Laha	PhD Scholar, University of Hyderabad

M.Sc. ARD

Sl. No.	Name	Name of the organizations/Universities
1	Apurba Sarkar	•Krishi Rasayan Pvt. Ltd.
2	Archak Ghosh	Child in India Institute, Kolkata
3	Arijit Karmakar	Weather Risk Management Services Ltd.
4	Arka Das	Ambuja Neotia Foundation, Kolkata
5	Arundhuti Das	National Innovation Foundation
6	Dinesh Chaurasia	Samaj Pragati Sahyog, Maharashtra
7	Iman Debnath	National Innovation Foundation
8	Keshab Karmakar	Ramky Foundation (did not join); Assistant Technology Manager, Agricultural Technology Management Agency
9	Rajashree Dey	Parivaar, Kolkata
10	Sagar Paul	Child In Need Institute, Kolkata
11	Saralika Ghosh	Collectives for Integrated Livelihood Initiatives (CInI), Tata Trust
12	Sayed Sorful Hasan	Assistant Technology Manager, Agricultural Technology Management Agency
13	Shukla Parui	Development Research Communication and
14	Subhankar Naskar	National Innovation Foundation
15	Sukanya Banerjee	National Innovation Foundation
16	Swagata Mondal	Collectives for Integrated Livelihood Initiatives (CInI), Tata Trust

▪ **Ph.D. Programme**

Sl. No.	Name	Course	Supervisor	Pre-submission seminar	Thesis submission	Thesis open defense	Present status
1.	Sathi Paul	PhD AgBT	Dr. MN Ali	24 September 2016	14 December 2016	13 April, 2017	Degree Awarded
2	Syandan Sinha Ray	PhD AgBT	Dr. MN Ali	24 September 2016	14 December 2016	13 April, 2017	Degree Awarded
3	Lucina Yeasmin	PhD AgBT	Dr. MN Ali	13th May, 2017	11 August 2017	24 November, 2017	Degree Awarded
4	Purnabha Dasgupta	PhD ARD	Dr. Rupak Goswami	14 January, 2017	19 August 2017	24 November, 2017	Degree Awarded
5	Sanchayeta Misra	PhD ARD	Dr. Rupak Goswami	14 January, 2017	7 September 2017	22 March, 2018	Open-Defense completed
6	Sudarsan Biswas	PhD ARD	Dr. Rupak Goswami	14 January, 2017	25 September 2017	22 March, 2018	Open-Defense completed
7	Sumita Nag	PhD AgBT	Dr. Jiban Mitra	13th May, 2017	31 August 2017	-	With the referee
8	Bhaswat Ghosh	PhD AgBT	Tapash Dasgupta	-	-	-	Lab work going on
9	Debarshi Basu	PhD AgBT	Dr. Dinendra Raychaudhury	-	-	-	Data analysis done
10	Jayashree sen	PhD EDM	Dr. Pranab Nag	-	-	-	Data analysis done
11	Shatabdi Saha	PhD ARD	Dr. Rupak Goswami	-	-	-	Data analysis done
12	Tandra Mondal	PhD ARD	Dr. Pranab Nag	-	-	-	Data analysis done

13	Vibha Singh	PhD AgBT	Dr. MN Ali	-	-	-	Lab work going on
14	Shibasish Mukherjee	PhD AgBT	Dr. Gautam Chatterjee	-	-	-	Course work

▪ **Research/Laboratory activities:**

All India Network Program on Organic Farming (AINPOF)

The School of Agriculture and Rural Development, Ramakrishna Mission Vivekananda Educational and Research Institute, initiated Network Project on Organic Farming (NPOF) in 2015. This project has been fully supported and funded by ICAR-IIFSR, Modipuram till now.

Objectives:

To study the impact of organic, inorganic and integrated crop management practices on crop productivity and soil health.

To study the impact of various management practices on the microbial population of soil and economics.

To study the biochemical properties of different plant-beneficial microbes present in composted materials.

To identify the plant-beneficial microbes present in the final compost manure produced using different farm waste and /or using different composting method.

To explore the scientific basis of the age old organic Indigenous Traditional Knowledges (ITKs) used by the Indian farmers for crop production and protection.

Progress report and successful execution:

1. The four cropping systems with six different managements were implemented successfully starting from Kharif season of 2015. The growth and yield parameters of different crops were documented for all cropping systems. Soil physico-chemical and biological properties were also determined and documented.

2. Till date, two different ITKs i.e, *Panchagavya* and *Shasyagavya* were scientifically characterized and validated. Plant-beneficial bacterial isolates from these two ITKs were characterized by various modern biochemical and molecular tools.

3. We have shown, for the first time, that *Shasyagavya* is a rich nutrient source and is also found to be enriched with various plant-beneficial bacteria such as nitrogen fixers, phosphate solubilizers, IAA producers etc.

4. During last two years, we conducted surveys to characterize organic farmers (65 in total) in the district of South 24-parganas. This will help to map the clusters of organic farmers in West Bengal in future.

Budget:

	2015-16	2016-17	2017-18
Funds released by the ICAR	Rs. 9.31 lakhs	Rs. 8.31 lakhs	Rs. 6.64 lakhs

Initially, two Senior Research Fellows (SRFs) were supported as manpower. But, due to cut off in budget by the ICAR, the project supports one SRF and one Young Professional-I.

Future prospects:

This project started in the year of 2015 and is successfully running for consecutive three years at Narendrapur. This project has a great potential to sanction as All India Co-ordinated Project (AICRP) on Organic Farming in near future. ICAR team visited our university on 12th March, 2018 and was highly impressed with our instrumental facility to carry out basic research in organic farming. They also discussed about the possibility of sanctioning AICRP project under this university. It should be noted that the university can enjoy 2 to 3 scientists, 2 SRFs, one non-teaching staff, and other posts from AICRP-funded Project.

We have already submitted a Tribal Sub-Plan project of about Rs. 33.05 lakhs under NPOF. ICAR team suggested to submit this project during their visit to Narendrapur.

ICAR is also encouraging us to identify and validate various kinds of biomolecules, which are responsible for taste and scent, from different crops grown under organic cultivation. We are currently writing this concept note and the project proposal will be submitted soon to the ICAR.

Biotechnology and Microbiology laboratory:

- Dr. Amitava Chatterjee completed two projects namely – “Anti tumor efficacy of Black Tea Polyphenols [Funded by National Tea Research Foundation]” and “In search of potential tumor marker [Funded by DST, Govt. of West Bengal]” from the laboratory
- Dr. Chatterjee has submitted two projects – "Activated MMP-2 as breast cancer Marker" [submitted to DBT, Govt. of WB] and “Identification of MNP-inhibitory factor(s) from aqueous extract of *Aza indica*” to AYUSH/ DST, WB-DBT, WB
- The laboratory is recently being funded by DST-SERB under the supervision of Dr. Gautam Chatterjee; procurements of instrument and laboratory set-up completed under this project.
- Students of 4th Semester (M.Sc in AgBt) have started their dissertation work in biotechnology laboratory of IRDM Faculty Centre from January 12, 2018.

Plant Tissue culture laboratory:

- Under the NHM Project, this laboratory is finally ready to sale the product G9 variety banana. This activity has gained attention by the outsiders during Tri-celebrations of Ashrama during 26-29th January, 2018.
- Standardization of Date palm is going on under the guidance of Dr. Joshita Vijayan.

Quality Control laboratory

- Published two scientific papers in peer reviewed journal –
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>
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), 2018.
- The laboratory has submitted preliminary application to ISM Drugs Control, Govt. of West Bengal for certification of Quality Testing Laboratory (QTL).
- Submitted a project entitled “Establishment of Quality Control laboratory for agricultural products” to RKVY program. The project is under review (PI: Dr. Tapash Dasgupta and Co-PI : Dr. A. K. Hazra)
- A concept note and the project proposal on ‘Biomolecular Characterisation of Basmati Rice grown under Organic Cultivation’ have been developed and will be submitted soon to the ICAR.
- MSc AgBT students are regularly doing practical in the laboratory

▪ New Courses

Three new courses will be started at the IRDM Faculty Centre from the 2018-19 academic session. Advertisement for these courses, along with other ongoing courses, has been made in the newspaper and RKMVERI-Narendrapur websites.

- a) M.Sc. (Agriculture) in Genetics and Plant Breeding
- b) PG Diploma in Post-Harvest and Food Technology
- c) Ph. D. (Agriculture) in Genetics and Plant Breeding

FACULTY ACTIVITIES

Dr. Kalyan Ganguly	- A presentation titled “Holistic Genomics – A –presentation made before the Class-XII students of the RKM Ashrama Vidyalaya, Narendrapur on August 20, 2017.
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	<ul style="list-style-type: none"> - On October 30th, 2017, I participated in a discussion with the representative from the Alumni Relations office at George Washington University, Washington, D.C. USA, to discuss about interviewing Indian students from Eastern India to pursue higher studies in USA. The meeting was organized by EdUSA program aimed at participation of Indian students' at a greater number in seeking academic opportunities to get involved in higher education in US universities. - Invited for writing a review article for the special issue titled "From Chromosomes to Genomics" of Nucleus journal (published by Springer India)
Dr. Amitava Chatterjee	<p><u>Publications</u></p> <ul style="list-style-type: none"> - Mondal, S., Mukherjee, R., Adhikari, A., & Chatterjee, A. (accepted manuscript). "VEGF-A potential marker for Breast Cancer" in <i>Clinical Oncology</i> <p><u>Project:</u></p> <ul style="list-style-type: none"> - Submitted Project proposal to AYUSH/ DST, WB/ DBT, W.B - Project on "Activated MMP-2 as breast cancer Marker" submitted to DBT, Govt. of WB is under review <p><u>Invited talks</u></p> <ul style="list-style-type: none"> - Keynote Lecture delivered on breast cancer marker in the Indo-Oncology Conference, Bhubaneswar 2018, 2-4 February 2018. - Invitation from World Cancer Congress, New Delhi, to deliver a Keynote Lecture in April, 2018 - Invited talk titled "Medicinal Plants – Importance in the Society" was delivered at the seminar on Recent Advances in Medicinal Plants Sector in India and their Sustainable Uses in Human Welfare and Poverty Alleviation organized by the Medicinal Plants Research and Extension Centre of Ramakrishna Mission Ashrama, Narendrapur on 28 January 2018.
Dr. P. K. Nag	<p><u>Programme:</u></p> <p>Leading the programme "Fostering Network in Education, Research & Innovation in Environmental & Occupational Health" supported by European Commission</p> <p><u>Project:</u></p> <ul style="list-style-type: none"> - Received a project titled "Human surface thermographic profiling as indicator of climate susceptibility and impact mitigation using social networking" from the Dept. of Science and Technology, Government of India. <p><u>Publication</u></p> <ul style="list-style-type: none"> - "Applying heat stress indices for human warmth assessment in changing climate" is under review in <i>Science of the Total Environment</i>. <p><u>PhD supervision:</u></p> <ul style="list-style-type: none"> - Supervising two Ph. D. students

Dr. D. N.
Raychau
dhuri

Publications:

- Litter and ground dwelling spiders (Araneae: Arachnida) of reserve forests of Dooars, West Bengal, 2017. World Scientific News, Poland, Special Volume, Monograph, 63: 1-242 [EISSN 2392-2192] (with D.C. Dhali and S. Saha)
- *Neoscona* Simon, 1864, the 'True Orb Weavers' in Ricelands of Gangetic Delta, South 24-Parganas, West Bengal, India, Species, 18(59), 62-76. (with D. Basu and T. K. Roy) [ISSN 2319-5746; EISSN 2319-5754]
- A new record of the orb-weaving spider genus *Parawixia* F.O. Pickard-Cambridge, 1904 from Bangladesh (Araneae: Araneidae) Serket, 15(3):113-118 (with V. Biswas)
- Taxonomic studies on *Adoretus* Dejean, 1833 (Rutelinae: Scarabaeidae) of Buxa Tiger Reserve (a forest under biodiversity hotspot zone), Dooars, West Bengal, India. Jour. Ent. & Zool. 4(6): 1-11 (with Subhankar Kumar Sarkar and Sumana Saha).
- Rice Land inhabiting Long Jawed Orb Weavers, *Tetragnatha* Latreille, 1804 (Tetragnathidae: Araneae) of South 24-Parganas, West Bengal, India, World Scientific News 55: 210-239. [with Debarshi Basu]
- Description of the unknown male of *Strigoplus netravati* Tikader, 1963 (Araneae: Thomisidae), with a key to the Indian species of the genus, Rivista Aracnologica Italiana, X(II): 26-33. [with D.C. Dhali & P.M. Sureshan]
- 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].

- Delivered the Keynote address in the 11th Workshop of NTRF, Tea Board on 24.8.2017.
- Proceeded to attend the PGBOS in Zoology, SKBU, Purulia on 28 & 29.8.2017
- Proceeded to attend the PGBOS in Zoology, Moulana Azad College on 2.11.2017
- Submitted the FTR of MoEF & CC, along with duly Audited Statement of Expenditure & Utilization Certificate.
- Proceeded to act as moderator of M.Sc. Sem.I & III examination, 2018, Moulana Azad College on 1.12.2017.
- Proceeded to attend the joint meeting of the Faculty council of Science, Arts & Commerce of Vidyasagar University, Paschim Medinipur on 8.12.2017.
- Proceeded to act as moderator of M.Sc. M.Sc. Semester I & III examination, 2018, Barasat Govt. College, Barasat on 14.12.2017.
- Proceeded to act as moderator of M.Sc. Semester I & III examination,

	<p>2018, Bangabasi College, on 14.12.2017.</p> <ul style="list-style-type: none"> - Inducted as member RAC, National Tea Research Foundation, c/o Tea Board since 5th Jan. 2018. - Acted as External Examiner in the M.Sc. Semester III, 2017 Examination, Spl. Paper: ENTOMOLOGY on 19th Jan, 2018, Moulana Azad College - Acted as one of the moderators in the International Conference on Zoology, Section: 'Biodiversity and Evolution' on 2nd Feb., 2018 held at Institute of Culture, Ramakrishna Mission, Golpark, Kolkata - Proceeded to attend the UG BOS meeting in Zoology at Belur Vidyamandira, RKM on 05.02. 2018.
<p>Dr. Tapash Dasgupta</p>	<p><u>Administrative and academic responsibilities</u></p> <ul style="list-style-type: none"> - Attended as an expert, Genetics and Plant Breeding, in the selection committee meeting for the posts of Project coordinator and Subject matter specialists, Comprehensive Area Development Corporation, Govt. of West Bengal, on 7th April, 2017 - Attended as a member in All India Crop Improvement Program, Sesame, ICAR monitoring team along with Director, Indian Institute of Oilseed Research (ICAR), Hyderabad during 21-23 May, 2017. - Invited Director, Indian Institute of Maize Research, ICAR, Punjab, to visit RKMVU Narendrapur Campus to discuss about the possibility of opening AICRIP, Maize centre at RKMVU, Narendrapur campus. The Director visited Narndrapur and gave consent to open a centre at RKMVU, Narendrapur campus in the meeting held on June 7, 2017 - Serving as a member of Research Advisory Committee, Central Crop Institute for Jute and Allied Fibre (CRIJAF), ICAR, since July 18, 2017 for 3 years as per the nomination of the Director General, Indian Council of Agricultural Research. - Attended All India Coordinated Improvement Program (AICRP), Rice, ICAR meeting at National Rice Research Institute (NRRI), Cuttack as per invitation from Director, NRRI, during 21-23 August and presented rice research work for the last 5 years. Initiated talks with Nodal officer, and HOD, Crop Improvement Program, Indian Institute of Rice Research, Hyderabad to consider RKMVU, Narendrapur campus as AICRP centre for Rice and also to help RKMVU in its rice research program. - A collaborative program has been proposed jointly with HOD, Plant Pathology Dept., Forest Research Institute, Portugal for joint research in rice blast disease and their tolerance in varieties on 1st August, 2017

	<p>through India-Portugal bilateral program.</p> <ul style="list-style-type: none"> - Continuing research in rice, and sesame breeding, marker assisted selection and varietal development. - External examiner for Ph.D. thesis evaluation, titled “Breeding for Salinity Tolerance in Rice based on some Important Plant Character” from the Dept. of Genetics and Plant Breeding, BCKV. <p><u>Editorial service</u></p> <p>Reviewed three manuscripts for the journal - International Journal of Agriculture, Environment and Biotechnology, New Delhi</p> <ul style="list-style-type: none"> - Reviewer of “Breeding rice for Zn-deficient soil” and “Phenotypic characterization of pigeon pea germplasm collected from Jharkhand, India” for Journal of Environmental Biology - Reviewer in SATSA publication, Dept. of Agriculture, Govt. of West Bengal, “Rajdeep (IET 17173), a high yielding paddy variety for semi-deep situation.” and “Anushka (YSWB 2011-10-1) and Sanchita(YSWB 2014/2): Two Newly Evolved Varieties of Yellow Sarson (<i>Brassica rapa</i> var. yellow sarson L.) in West Bengal” <p><u>Project:</u></p> <ul style="list-style-type: none"> - Submitted a project entitled “Establishment of Quality Control laboratory for agricultural products” to RKVY program. The project is under review.(PI : Dr.Tapash Dasgupta and Co-PI : Dr. A. K. Hazra) <p><u>Publication:</u></p> <ul style="list-style-type: none"> - Iqbal, A., Das, R., &Dasgupta, T. (2017). Association of seed iron and zinc content with seed yield and other traits in sesame (<i>Sesamum indicum</i> L.). <i>International Journal of Current Research</i> Vol. 9 (7), pp.53847-53851. - Pandey, S. K., Dasgupta, T., Rathore, A., &Vemula, A. (2018). Relationship of Parental Genetic Distance with Heterosis and Specific Combining Ability in Sesame (<i>Sesamum indicum</i> L.) Based on Phenotypic and Molecular Marker Analysis. <i>Biochemical Genetics(Springer)</i>, 1-22.
<p>Mr. Amitava Dutta</p>	<p><u>Higher study:</u></p> <ul style="list-style-type: none"> - Completed PhD coursework of the Doctoral Research Programme in the Department of Social Work, Visva-Bharati University. <p><u>Invited talks/Lectures:</u></p> <ul style="list-style-type: none"> - On 26 November, 2017, delivered a special lecture on "Relation between Social Work and Volunteerism" in the West Bengal Students and Youth Training Workshop on Volunteerism and Leadership Building-2017, at Moulali Yuba Kendra, Kolkata, sponsored by Gandhi Smitri and Darshan Samity (Govt. of India) and organised by Salt Lake Institute for Personality Development and Value Education. - Participated in the International 1st International Conference on “Promoting Community and Environmental Sustainability” organised by Community Social Work Practice & Development Foundation at Dhaka, Bangladesh during 20-21 March 2018.

	<p><u>Project:</u></p> <ul style="list-style-type: none"> - Jointly applied for one research projects <p><u>Others</u></p> <ul style="list-style-type: none"> - Acted as Examiner for the MSW course of Department of Social Work, Visva-Bharati University on 11 May 2017 - Acted as a Resource Person in a National Youth Volunteers' Training Camp organized by Nehru Yuba Kendra, Ministry of Youth & Sports, GoI, at Baruipur on 16 August 2017 - On 06 February, 2017, invited by PG Department, Department of Social Work, Mahisshadal Girls' College, Purba Medinipur, as an External Examiner for the Dissertation paper of MSW course.
Dr. Rupak Goswami	<p><u>Publications:</u></p> <ul style="list-style-type: none"> - Ghosh, S., Manna, S., Dutta, A., Goswami, R. (2017). Social, Economic, and Production Characteristics of Freshwater Prawn, <i>Macrobrachium rosenbergii</i> (De Man, 1879) Culture in West Bengal, India. <i>Aquaculture International</i> (Springer), DOI: 10.1007/s10499-017-0165-7. - Dasgupta, P., Goswami, R., Ali, MN, Chakraborty, S., Saha, S. (2017). Identifying Sustainability Assessment Indicators for Assessing the Sustainability of Smallholder Integrated Farms in Coastal West Bengal, India. <i>Asian Journal of Agricultural Extension, Economics & Sociology</i>, 19(1), 1-14. DOI: 10.9734/AJAEES/2017/35516 - Dasgupta, P., Goswami, R., Ali, MN, Chakraborty, S., Saha, S. (2017). Identifying Sustainability Assessment Indicators for Assessing the Sustainability of Smallholder Integrated Farms in Coastal West Bengal, India. <i>Asian Journal of Agricultural Extension, Economics & Sociology</i>, 19(1), 1-14. DOI: 10.9734/AJAEES/2017/35516 - Goswami, R., Misra, S., Mondal, T., & Jana, R. (2018). Social network analysis in the context of community response to disaster. <i>SAGE Research Methods Cases</i>, Sage, UK. - Saha, S., Goswami, R., & Paul, S. K. (2018). Recursive Male Out-migration and the Consequences at Source: A Systematic Review with Special Reference to the Left-behind Women. <i>Space and Culture India</i>, 5(3), 30-53. <p><u>Invited lectures:</u></p> <ul style="list-style-type: none"> - "Farm typology based fertilizer recommendations through Nutrient Expert: What are the big gains?" at the Special Concurrent Session on "Out-scaling Site-specific nutrient management using Nutrient Expert Fertilizer Decision Support Tool" at the 82nd Annual Convention of ISSS at the Amity University, Kolkata, West Bengal on December 12, 2017 - "Few Tools and Techniques for the Extension Specialists of Krishi Vigyan Kendra for Improved Programme Delivery" at the refresher course for the scientist of Agril. Extension working in the KVKs of A&N Islands, Odisha

	<p>and West Bengal, organized by IACR-Agricultural Technology Application and Research Institute at the West Bengal University of Animal and Fishery Sciences on 6 February, 2018.</p> <p>Editorial Service: Indian Research Journal of Extension Education, Journal of Crop and Weed, International Journal of Disaster Risk Reduction (Elsevier), Annals of Agrarian Science (Elsevier)</p> <p>Award: Nominated for the Fulbright-Nehru Academic and Professional Excellence Fellowship 2018-19</p> <p>Projects:</p> <ul style="list-style-type: none"> - Centre PI: "Establishment of a biotech-KISAN Hub in Sunderban area of South 24 Parganas District of West Bengal" [Department of Biotechnology, Govt. of India] - Centre Co-PI: "Human surface thermographic profiling as indicator of climate susceptibility and impact mitigation using social networking" [DST, Govt. of India] - Three more projects are under review by ICAR-NASF, ICAR-IIFSR, IPNI <p>Doctoral Thesis: Three PhD theses awarded under Dr, Goswami's supervision</p> <p>Others</p> <ul style="list-style-type: none"> - Took sessions for the Post-Graduate Diploma in Agricultural Extension Management course offered by MANAGE, Hyderabad - Took a session on Extension Methodologies in the refresher training course on "Improved Technologies for Sustainable Agriculture: Prospects, Opportunities and Challenges" for the field sales team of Coromandel Intl. Ltd., organised by Sasya Shyamala Krishi Vigyan Kendra at the IRDM Faculty Centre during 14-17 February 2018. - Acted as question setter and evaluator of a State Agricultural university
<p>Dr. Joshitha Vijayan</p>	<p>Projects:</p> <ul style="list-style-type: none"> - Received UGC start-up research grant of Rs.6.70 lakh - Running two projects <p>Publication:</p> <ul style="list-style-type: none"> - Gantait S, Vijayan J, Majee A (2017) Artificial seed production of <i>Tylophora indica</i> for interim storing and swapping of germplasm. Horticultural Plant J 3:41-46. - Gantait S, Vijayan J, Majee A (2017) Artificial seed production of <i>Tylophora indica</i> for interim storing and swapping of germplasm. Horticultural Plant J 3:41-46.
<p>Dr. Gautam Chatterjee</p>	<p>NPOF project</p> <ul style="list-style-type: none"> - Visited IIFSR, Modipuram to deliver the project progress report related to the Network Project on Organic Farming, funded by ICAR,

	<p>New Delhi.</p> <ul style="list-style-type: none"> - Participated and delivered a talk at Indian Institute of Soil Science, Bhopal during 11th Annual Group Meeting of Network Project on Organic Farming. - Participated in a training programme on Stability/Combined analysis, methodology for NPOF Experimental data during 25-26 July 2017 at ICAR-IIFSR, Meerat. - Delivered a talk as a resource person in an ICAR sponsored Summer School on Modern Concepts and Practices of Organic farming for safe secured and sustainable food production on 24 July 2017 at ICAR-IIFSR, Meerat. - Attended and delivered a talk at XII Annual Group Meeting of Network Project on Organic Farming (NPOF) at ICAR-IIFSR, Modipuram, India, 18-19 December, 2017. <p><u>Invited Lecture:</u></p> <ul style="list-style-type: none"> - Delivered an invited talk in the 10th Conference on Yeast Biology at Jawaharlal Nehru University, New Delhi, India during 8-11th February, 2018. <p><u>Projects:</u></p> <ul style="list-style-type: none"> - Supervising two projects as Centre PI - Applied for two projects during the reporting period <p><u>PhD supervision:</u> Supervising one PhD student</p> <p><u>Others</u></p> <ul style="list-style-type: none"> - Acts as an external examiner for setting question paper and evaluating answer script for Bidhan Chandra Krishi Viswavidyalaya.
Dr. Sanchayee ta Misra	<ul style="list-style-type: none"> - <u>Publication:</u> - 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. <p><u>Workshop/Seminar:</u></p> <ul style="list-style-type: none"> - Attended a training programme on “Research Design/Planning for Collection and Analysis of Data for Researchers in Social Sciences and Allied Areas” organized by: Sociological Research Unit, Indian Statistical Institute, Kolkata during March 6-7, 2018 <p><u>Projects:</u></p> <ul style="list-style-type: none"> - Jointly applied for two research projects <p><u>Others</u></p> <ul style="list-style-type: none"> - Successfully defended open thesis defense seminar on 22 March 2018.

Ongoing Projects

Project	Period	Persons responsible	Fund
Tissue Culture for Micro-propagation [funded by Department of Horticulture, Government of West Bengal]	-	Dean, IRDM Faculty Centre	94 Lakhs
Anti tumor efficacy of Black Tea Polyphenols [Funded by National Tea Research Foundation]	2014-2017	Principal Investigator: Dr. Amitava Chatterjee	28.09 Lakh
In search of potential tumor marker [Funded by DST, Govt. of West Bengal]	2014-2017	Principal Investigator: Dr. Amitava Chatterjee	18.46 Lakh
Exploration of Spiders (Arachnidae araneae) of Eastern Himalaya [Funded by Ministry of Environment and Forest, Govt. of India]	2015-2017	Principal Investigator: Dr. Dinendra Raychowdhri	32.91 Lakh
Network Project on Organic Farming [Funded by Indian Council of Agricultural Research]	2015-2018 (cont.)	Principal Investigator: Dr. Gautam Chatterjee Co- Principal Investigator: Dr. Abhijit Ghosal	Rs.38.0 Lakh
Fostering Network in Education, Research & Innovation in Environmental & Occupational Health [supported by European Commission]	2016-2019 (initially)	In-Charge: Dr. Pranab Kr. Nag	~ €69000
Structure-function analysis of the centromeres and its associated centromeric protein CENP-A of the human pathogenic <i>Candida parapsilosis sensu lato</i> species complex [SERB, DST, Govt of India].	2016-2019	Principal Investigator: Dr. Gautam Chatterjee	- 40.49 Lakh
UGC start-up grant	2017-19	Investigator: Dr. Joshitha Vijayan	Rs.6.70 Lakh
“Human surface thermographic profiling as indicator of climate susceptibility and impact mitigation using social networking” [DST, Govt. of	2017-2020	Principal Investigator: Dr. Pranab Kr. Nag Co- Principal Investigator: Dr. Rupak Goswami	Rs.69.42 Lakh

India]			
Research and Raising of Arabian Dates Tissue Culture Sapling [Department of Panchayat and Rural Development]	2017-2020	Principal Investigator: Dr. Joshitha Vijayan	Rs.9.32 Lakh
"Establishment of a biotech-KISAN Hub in Sunderban area of South 24 Parganas District of West Bengal" [Department of Biotechnology, Govt. of India]	Sanctioned	Principal Investigator: Dr. K.C. Dhara, WBUAFS Co-Investigator: 1. Dr. Rupak Goswami, RKMVERI 2. Dr. Nilendu Jyoti Maitra, RAKVK, Nimpith	RKMVERI share (~25 Lakh)
"Impact Assessment of Agricultural Research and Extension Organization: The Case of International Plant Nutrition Institute (IPNI) in India" [IPNI]	Under Review	Principal Investigator: Dr. Rupak Goswami Co-Principal Investigator: Ms. Sanchayeeta Misra	1.1 Lakh
Participatory Improvement of Farming Systems for Sustainable Tribal Livelihoods (under Tribal Sub-Plan) in Laudaha Gram Panchayat of Sankrail Block, District Jhargram, West Bengal IIFSR-ICAR	Under Review	Principal Investigator: Dr. Rupak Goswami Co-Principal Investigator: Amitava Dutta Ms. Sanchayeeta Misra Krishnendu Ray Gautam Chatterjee	33.05 Lakh

DEPARTMENT OF INTEGRATED RURAL AND TRIBAL DEVELOPMENT AND MANAGEMENT (IRTDM), RANCHI CAMPUS

1. Courses Offered by the faculty centre: The Faculty centre is at present offering following courses -

- i) 5 years Integrated M. Sc. in Agriculture, Rural and Tribal Development (ARTD).
- ii) 2 years M.Sc. in Agriculture, Rural and Tribal Development (ARTD).
- iii) Ph.D. in Agriculture, Rural and Tribal Development (ARTD).
- iv) 2 years M.A./M.Sc. in Rural Development and Management [RDM]
- v) 1 year Diploma in Agriculture and Rural Development [DARD]

2. Students Details: There are five (5) batches of students in ARTD and one batch each in diploma and RDM. The total no. of students including Ph.D. scholars are 135.

Year	ARTD 1 st Year- 2017 batch	ARTD 2 nd Year 2016 batch	ARTD 3 rd Year 2015 batch	ARTD 4 th Year 2014 batch	ARTD 5 th Year 2013 batch	Ph.D. Scholars in ARTD	Diplom a in ARD	RDM 1 st Year- 2017 batch
No. of Studen ts	33	36	23	11	4	3	16	8

3. Extension Activities of the IRTDM Faculty

The IRTDM faculty centre conducts both intensive and extensive field work for the students to acquire knowledge about the real life situation through participatory interactions with the villagers. Students study villages extensively, identify resources available, problems etc. The students conduct demonstrations in the farmers' field on the different aspects of organic farming.

a) Village & Institutional visits: In each semester students must do educational visit to different villages and Govt. & Non-Govt. organizations/Institutions for detail study under different course. Students have visited the following villages during the reporting period – IDD, Nagrabera, Hundrujara, Gutigara, Lepsar, Kamta, Gurgurjari, Rarha, Madni, Badri, Obar, Mahuatongri, etc. Institutional visits

conducted during the reporting period includes Primary Health Centre (PHC), Bero; Central Tasar Training and Research Institute (CTTRI), Nagri; Indian Institute of Natural Resin and Gum (IINRG), Namkom; Society for Rural Industrialisation (SRI), Ranchi; Food Corporation of India (FCI), Chutia; Hi-tech Hort. Farm; Horticulture and Agro-forestry Research Programme (HARP), Plandu, Ranchi, Fodder Farm and Piggery Unit, BAU.

b) Kisan Mela: During the reporting period ARTD students displayed their activities in regional Kisan Mela organized by Divyayan KVK and the central Kisan Mela of Ramakrishna Mission Ashrama, Ranchi at Getalsud farm and explained their products and models to the farmers & visitors.

4. Learning through Organizational Attachment (LOA)

The students of the 8th semester of ARTD and 2nd semester of DARD were sent to the different organizations and have completed their Learning through Organisational Attachment (LOA) curriculum successfully. The following are the details of the organizational attachment of the students of the 8th semester of ARTD and 2nd semester of ARD,

Name of the Organisation	Place of work	Name of the placed students	
		M. Sc.	Diploma
Literacy India	Rajasthan	Alina Tigga	Komal Kumari
	Jharkhand	Hemant Kumar	Satish Kumar
	Purulia	Arnab Adhikary	Santosh kumar
	Kalimpong	Manojit Das	Raj Kumar Mahto
Central Integrated Pest Management Centre (CIMPC), Ranchi	Jharkhand	--	Uma Kumari, Rakhi Kumari, Susmita Kumari and Kamdeo Kumar
IINRG, Namkum	Jharkhand	Ramjeevan Mahto	Asish Tiwari, Arbind Kumar
Naihati Prolife, West Bengal	North 24 PGS, West Bengal	--	Rajdip Pal

5. Student's Placement: The main objective of the course under the Faculty of IRTDM is aimed at developing entrepreneurial skill, so that the students passing out of these courses become self-employed. Nevertheless our students, immediately after passing, find themselves at ease in the job market especially in the private sector. The following are the placement details of the final year of Int. M.Sc. in ARTD and Diploma in ARD students during the reporting period,

Name of Course	Name	Organization
Integrated M.Sc. in Agriculture, Rural and Tribal Development	Aranya Ribhu	Advancement for Social Action, Bihar
	Sayan Majee	Advancement for Social Action, Chattisgarh
	Ranita Das	Advancement for Social Action, Jharkhand
	Biplab Ghosh	Advancement for Social Action, Jharkhand
	Debarshi Sarkar	TATA Trust, Jharkhand
	Suchismita Sengupta	TATA Trust, Jharkhand
	Puja Kumari	Jharkhand Tribal Development Society
	Savita Oraon	Jharkhand State Watershed Mission
Diploma in Agriculture and Rural Development	Uma Kumari, Rakhi Kumari, Susmita Kumari Arbind Kumar, Kamdeo Kumar, Santosh Kumar, Satish Kumar	Jharkhand State Watershed Mission

6. Admission for the session 2017-18.

Course wise details of admission for the session are given below,

Course Name and admission status	Integrated M.Sc. in ARTD	Ph.D. in ARTD	M.A./ M.Sc. in RDM	Diploma in ARD

Number of applicants	448	18	27	41
Number of candidates selected after written test and interview	38	3	18	21
Number of candidates admitted in the course	38	3	9	17

7. Special Lectures:

- i. Sri B.K. Sinha, OSD, Dept. of Finance, Govt. of Jharkhand delivered a special lecture on **Financial Inclusion** on 18.4.2017.
- ii. Sri Sanjay Kumar Mishra, Executive Director, Bharatiya Kisan Sangha, Ranchi delivered a special lecture on **Child Trafficking in Jharkhand** on 26.4.2017.
- iii. Sri Sanjay Kumar, Deputy Commandant, Border Security Force delivered a special lecture on Border Guards of India and how to overcome negative feelings? on 19.7.2017.
- iv. Sri Rajiv Ranjan, Lecturer, State Institute of Rural Development, Govt. of Jharkhand, delivered a special lecture on **Agro-forestry with reference to Jharkhand** on 27.7.2017.
- v. Sri Rahul Prakash, National Innovation Fellow, National Innovation Foundation, Govt. of India delivered a special lecture on **Scouting and Documentation of Grassroot level Innovations** on 26.8.2017.
- vi. Dr. A.K. Thakur, Assistant Professor, Dept. of Zoology, Ranchi University delivered a special lecture on **MOOCs (Massive online open courses)** through SWAYAM platform – An e-learning initiative of UGC on 30.8.2017.
- vii. Dr. A. K. Singh, Honorable Vice-Chancellor, Bihar Agricultural University, Sabour delivered a special lecture on **Integrated Farming System Models for Small and Marginal Farmers** on 2.9.2017.
- viii. Sri A.K. Sarangi, DGM NABARD, Ranchi delivered a special lecture on **Empowerment of Farm Women** on 25.10.2017.
- ix. Sri Dibyajyoti Nag, Ph.D. Scholar, RKMVU delivered his Ph.D. pre-submission seminar on 26.10.2017.
- x. Sri Atanu Deb, Ph.D. Scholar, RKMVU delivered Ph.D. thesis defense seminar on 11.11.2017.
- xi. Sri Rajeev Kumar, Operational Trainer, NDUS delivered a special lecture on **Operational Planning Strategy of National Level Survey** on 31.1.2018.
- xii. Dr. Debashish Chakraborty, Assistant Director, Jharkhand State AIDS Control Society delivered a lecture on **Community Health – Issues and Programmes** on 7.2.2018.

8. Publications:

- i. A.K. Dutta and B. Mondal (Eds). 2017. *Fruits for Livelihood: Production Technology and Management*

Practices. AgroBios (India): Jodhpur.

ii. A. Sengupta. 2017. Livelihood Security through Fruit Farming. In A.K. Dutta and B. Mondal (Eds). *Fruits for Livelihood: Production Technology and Management Practices*. AgroBios (India): Jodhpur.

iii. D. Chatterjee. 2017. Edible Wild fruits in Rural Livelihood with reference to Medicinal, Nutritional and Economic Aspects. A.K. Dutta and B. Mondal (Eds). 2017. *Fruits for Livelihood: Production Technology and Management Practices*. AgroBios (India): Jodhpur.

iv. P. Agarwal and P. Yadav. 2017. Economic approach of fruit Farming: An example of Banana Cultivation. A.K. Dutta and B. Mondal (Eds). 2017. *Fruits for Livelihood: Production Technology and Management Practices*. AgroBios (India): Jodhpur.

v. Deb,A and **Sengupta,A. 2017**. Family Farms of East Singhbhum, Jharkhand : A ‘ PRA’ Based Analysis. *Global Journal of Research Analysis*.

vi. Nag,D., **Sengupta,A** and Dutta,A.K. 2017. Impact of Organic Manures on Onion Cultivation : A Review. *Journal of Interacademecia*.

vii. Nag, D. and **Dutta, A. K. 2017**. Yield and Quality of Sand Mulched Onion with the Application of Different Liquid Organic Manures. *Environment and Ecology*.

viii. **Agarwal, P.K.**, Kumar, A. 2017. A socioeconomic study on pros and cons of SRI method of paddy cultivation in Ormanjhi block of Ranchi district, Jharkhand. *Indian Journal of Agric. Research*

9. Research, Seminar and Workshops @ IRTDM:

a) Extramural Research and Consultancy Projects: The statuses of the different project proposals submitted to different funding agencies are given below.

Project	Funding Agency	Principal Investigator	Status
On-going/ approved Projects			
An ethnographic account on elderly and related public issues with reference to Tribals of Eastern India.	Indian Council of Social Science Research, Ministry of HRD, Govt. of India	PI- Dr. D. Chatterjee	On-going. Received 1 st instalment.
A Study on Livelihood Pattern for Identifying Livelihood Interventions for Tribal Communities.	Integrated Tribal Development Agency, Ranchi,	PI- Dr. D. Chatterjee Co-PI – Dr. A.	On-going. Received 1 st

	Govt. of Jharkhand.	Chandra	instalment.
Vanabandhu Kalyan Yojana (Education).	Integrated Tribal Development Agency, Ranchi, Govt. of Jharkhand	PI- Dr. A.K. Jasu Co-PI – Dr. D. Chatterjee	On-going. Received 1 st instalment
National Survey on Extent and Pattern of Substance Use in India commissioned by Ministry of Social Justice and Empowerment, Govt. of India	RRTC East-II under Ministry of Social Justice and Empowerment, Govt. of India	Dr. D. Chatterjee (Consultancy support as State Project Coordinator, Jharkhand)	On going
Submitted Projects			
Study on Post Project evaluation of Panchayats under SAGY in Jharkhand	Ministry of Rural Development, Govt. of India.	PI- Dr. Deepnarayan Mukherjee. Co-PI- Dr. D. Chatterjee	Submitted

b) Seminar/ Workshop Participation: During the reporting period, following faculty and students have participated in different seminars and workshops,

1. **Regional Training of Trainers and Operational Planning Workshop** organized by National Drug Dependence Treatment Centre (NDDTC), AIIMS, New Delhi and Ministry of Social Justice and Empowerment, Government of India held at Ranchi from 10–14 September 2017.
 - i) Dipankar Chatterjee, Assistant Professor
 - ii) Suresh Kumar Mahto, Ph.D. Scholar
 - iii) Koustab Majumdar, Ph.D. Scholar
2. **National Training of Trainers and Operational Planning Workshop** organized by National Drug Dependence Treatment Centre (NDDTC), AIIMS, New Delhi and Ministry of Social Justice and Empowerment, Government of India held at New Delhi from 18–22 September 2017.
 - i) Dipankar Chatterjee, Assistant Professor
3. International conference on **India Biodiversity Meet**, 2018 organized by ISI, Kolkata from 15-17 March 2018.
 - i) Avijit Kumar Dutta, Assistant Professor
4. Ten days **ICSSR Research Methodology** Course organized by Dept. of Anthropology, West Bengal State University from 4-13 December, 2017
 - i) Koustab Majumdar, Ph.D. Scholar
 - ii) Manoj Raul, Ph.D. Scholar

c) Workshops and Trainings Organized:

During the reporting period, faculty centre organized following sponsored training programmes,

- i. Training of Field Staff on Mapping Listing related to National Drug Use Survey commissioned by Ministry of Social Justice and Empowerment, Govt. of India. (27-30 January, 2018)
- ii. Training of Field Staff on Household Survey related to National Drug Use Survey commissioned by Ministry of Social Justice and Empowerment, Govt. of India. (27 Feb-3 March, 2018)

10. Academic Council and Board of Studies (AC &BoS) meeting:

During the reporting period four combined meeting of the Academic council and Board of Studies (27th, 28th, 29th and 30th) were held. The outcomes of the meeting are briefly given below:

- i. The house approved the syllabus of 2 year M.A. / M.Sc. in Rural Development and Management programme.
- ii. The house approved the proposal to offer Integrated M.Sc. with two specializations (i.e Agriculture & Sustainable Livelihood and Rural Extension & Management) after B.Sc.
- iii. House resolved to start new programmes from 2018-19 academic session subject to approval of recurring grant from the Govt. of Jharkhand.
- iv. House ratified the procedure adopted for the selection of one Assistant Professor in Entomology.
- v. House decided to implement the CBCS pattern as per UGC guidelines to all the existing programmes offered by IRTDM faculty.

11. Special Events:

1. Faculty centre organized Fresher's welcome and *Vidyarthi Homa* during the reporting period.
2. Faculty centre organized the pledge taking ceremony (*Sankalp se Siddhi*) to commemorate the great events and sacrifices of our revered freedom fighters during the freedom struggle.

3. Released three issues of Wall Magazine and e-Magazine titled *Prabuddha Gramin Bharat* and *Krishaka Devo Bhava* respectively.
4. One day industrial motivation campaign was organized at University campus on 6 September, 2017.
5. Faculty Centre organized *Run for Unity* to commemorate the birth anniversary of Sardar Vallabhbhai Patel on 31.10.2017.
6. Honorable Chief Minister of Jharkhand Sri Raghubar Das and Honorable Chief Secretary Smt. Rajbala Verma visited the IRTDM campus on 5.12.2017.
7. All staffs and students of the faculty centre participated in the programme on National Youth Day organized by Ramakrishna Mission Ashrama, Ranchi on 12 January, 2018.
8. Saraswati Puja observed in the campus and the cultural team organized a cultural programme on that occasion.
9. A Blood donation camp was organized in association with Blood Bank, RIMS on 16.1.2018.
10. Faculty centre observed International Women's Day on 8 March, 2018 by organizing elocution and debate.
11. In response to the *Swachh Bharat* movement, during the reporting period faculty centre observed last Saturdays of every month as a mark of Swaccha Bharat Abhiyan by organizing short speech and campus cleaning activities.

FACULTY OF DISABILITY MANAGEMENT AND SPECIAL EDUCATION (FDMSE), COIMBATORE CAMPUS

Academic Programs Offered:

The faculty offers Ph.D., M.Phil. M.Ed., B.Ed., Integrated B.Ed. M.Ed. (ID) and Diploma courses in Special Education in three areas of specializations namely Visual Impairment, Hearing Impairment and Mental Retardation. It also offers Diploma Course in Indian Sign Language Interpretation, Certificate Course in Assistive Technology & Certificate Course in Theatre Arts for Holistic Development. Total 90 students have been undergoing these courses in this academic year 2017-18.

Extension Services:

As many as 1671 persons were benefited by the services of physiotherapy, speech therapy, play therapy, orthotic and prosthetic unit, low vision unit, remedial teaching and counseling unit. Braille unit supplied 10,362 volumes of Braille Books thus catering to the needs of more than (approx.) 1956 children with visual impairment belonging to various parts of Tamil Nadu and Andhra Pradesh.

Convocation

The 12 th convocation of the Faculties of Disability Management and Special Education (DMSE) and General and Adapted Physical Education and Yoga (GAPEY), Ramakrishna Mission Vivekananda Educational and Research Institute, Coimbatore Campus was held at the Venkatakrisnan Indoor Stadium on 9 September 2017. Dr. A. Santhosh Mathew, IAS, Chairperson, National Council for Teacher Education delivered Dr. Avinashilingam 4 th Memorial Lecture titled "Crisis in Teacher Education". The Guest in Chief of the day, Prof. Virender Singh Chauhan, Chairperson, University Grants Commission, New Delhi delivered the Convocation Address.

ACADEMIC ACTIVITIES

Board of Studies Meeting: The Board of Studies Meeting was held on 10 June and 26 October 2017.

Research Consultancy Meeting: Research Consultancy Meeting was held on 7 July 2017.

Admission Committee Meeting: Admission committee meeting was held on 7 July 2017 to scrutinize the eligibility criteria of students with disabilities and SC, ST categories.

Academic Council Meeting: Academic Council Meeting for the Four Off-Campus faculties of Ramakrishna Mission Vivekanand Educational and Research Institute, Coimbatore

Campus was held on 22 June 2017. Swami Garishthananda (Admin. Head) presided over the meeting. Swami Divyaprajnananda, Asst. Admin. Head (FDMSE, GAPEY and FYCSAR) welcomed the members. Library Committee Meeting

Library Committee Meeting for all four faculties (FDMSE, GAPEY, FAR & FYCSAR) was held on 5 April 2017 and 21 March 2018.

Finance Committee: The Finance Committee Meeting was held on 11 April 2017.

Doctoral Committee: Doctoral Committee meeting was held on 31 August and 25 November 2017.

Research and Advisory Committee Meeting: Research and Advisory Committee Meeting was held on 11 April 2017.

IQAC Meeting (Internal Quality Assurance Cell): IQAC meeting was held on the following dates: 29 April 2017, 3 August 2017, 4 November 2017 and 20 February 2018.

IEC Meeting (Institutional Ethics Committee): Institutional Ethics Committee meeting was held on 24 October 2017 and 28 December 2017.

Anti-Ragging Committee: Anti-Ragging Committee meeting of the four off campus faculties (FDMSE, GAPEY, FAR & FYCSAR) of RKMVERI was held on 08 August 2017

Passing Board Meeting: Passing Board Meeting was held on 16 June 2017 and 22 January 2018.

Meeting on Vocational Orientation to Parents of Persons with Intellectual Disability: A meeting on Vocational Orientation to parents of persons with Intellectual Disability was conducted on 6 February 2018. Swami Divyaprajnananda & Dr. N. Muthaiah addressed the meeting and Mrs. Manjula Kalyan, Director, 'Swayam Krushi', Secunderabad, interacted with parents.

Alumni Meet: Three faculty members and ten Alumni participated in the Vidyalaya Foundation Day Celebration on 4 February 2018.

Swami Vivekananda's Chicago Speech Recitation Competition

Staff members and students attended Swami Vivekananda's Chicago Speech Recitation Competition held on 11 th September 2017. The following students of FDMSE won the prizes.

Name	Program	Level	Position
Ms. B. Mrudhula	B.Ed.- MR(I)	College Level Tamil	I
Mrs. S. Roopavathy	B.Ed.- MR(II)	College Level English	I

Seminar / Conference / Workshop / Symposium / Orientation / CRE (Continuing Rehabilitation Education) Program

- ❖ A 2-day CRE program on “Holistic Management of Persons with Multiple Disabilities - Educational & Therapeutic Interventions for Children with Intellectual Disabilities” was organized on 30 & 31 March 2017. It was jointly organized by FDMSE and NIEPMD, Chennai.
- ❖ A five-day CRE program on “Fundamentals of Research Methodology” was organized by FDMSE from 9-13 October 2017.
- ❖ A two-day workshop on “Usage of Screen Reading Software for the Visually Impaired” was organized on 21-22 October 2017.
- ❖ A five-day CRE program on “Multisensory Approach in Pre-school Education” was organized from 26-30 December 2017. It was jointly organized by FDMSE and NIEPMD, Chennai.
- ❖ A 3-day CRE program on “Communication options in Teaching Children with Hearing Impairment” was organized from 27-29 January 2018. DAISY Books Reading and Creation Workshop A two-day workshop on DAISY Books Reading and Creation was organized on 6 & 7 April 2017 in collaboration with Cognizant Foundation, Chennai.

In-Service Training Program

A Three-day In-service training program titled “In-service Training and Sensitization about Disability for Grass-root level Workers – Village Health Workers, Anganwadi Workers and CBR Workers” from 11-13 July 2017. This program was sponsored by ‘Ministry of Social Justice and Empowerment’ and approved by Rehabilitation Council of India.

Medical Camp

Department of Hearing Impairment organized an ‘Audiological Assessment Camp’ at FDMSE campus on 29 July 2017.

National Conference

A two-day National Conference on “Ensuring Inclusive and Equitable Quality Education and Sports for the Empowerment of Women with Disabilities” was organized from 23-24 February 2018 by the two Faculties of the RKMVERI, Coimbatore - FDMSE & GAPEY. The conference commenced with an inaugural function on 23 February 2018. Dr. Muthaiah, Dean, FDMSE, welcomed the gathering and introduced the theme of the

conference. Swami Yatatmanandaji Maharaj, President, Ramakrishna Math, Salem, presided over the function and delivered the Presidential Address. The Chief Guest of the function, Dr. Nandini Rawal, Executive Director, Blind People's Association and Treasurer, 'International Council for Education of People with Visual Impairment (ICEVI)', delivered the Keynote address. Vote of Thanks was delivered by Dr. S. Alagesan, Prof., & Head, GAPEY. Assistive Technology Stalls for the empowerment of the individuals with disabilities were inaugurated by Swami Yatatmanandaji Maharaj. Seminars / Conferences / Workshops and Meetings attended by the Faculty Members.

❖ Faculty members of FDMSE attended a one-day workshop on 'Wheelchair Accessibility and Sports' on 31 May 2017. This workshop was organized in collaboration with 'Leonard Cheshire Disability' and 'University College of London'.

Dr. N. Muthaiah (Dean – FDMSE)

❖ Visited one of the Colleges of Education in Jammu as the Member-Coordinator of 'NAAC Peer Team' for Assessment & Accreditation on 22-23 September 2017.

❖ Visited one of the institutes offering Special Education in Bangalore as the Member-Coordinator of 'NAAC Peer Team' for Assessment & Accreditation on 9-10 October 2017. He also delivered a key note address on the inaugural session and a lecture on "Curriculum Transaction Strategies for Higher Education" at the One-day workshop on "Modern Trends in Curriculum Construction" organized by Curriculum Development Cell (CDC) of RKMV College of Arts and Science on 23 October 2017.

❖ Attended BOS Meeting as chairman organized by Tamil Nadu Teachers Education University, Chennai for four-year B.Sc., B.Ed., Integrated Program on 5 December 2017.

❖ Attended the Board of Management Meeting at RKMVERI Head Quarters, Belur Math, on 19 Dec 2017. He oriented all the faculty members of the Departments of Physics, Maths, Computer Science and Sanskrit on 15-16 December 2017 regarding the new pattern of Assessment and Accreditation of NAAC and shared the vital issues to be addressed while preparing Self Study Report.

❖ Nominated as a member of General Council of Rehabilitation Council of India, New Delhi, an Advisory Body to HRD Ministry, Govt. of India.

❖ Oriented all Faculty members of faculties at Narendrapur, Ranchi and Belur Math Centers on revised NAAC framework in the 1 st week of March 2018. Dr. S. Parween (Asst. Professor and HoD – Dept. of VI)

❖ Acted as an external examiner at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 09.05.2017 for Central Evaluation.

❖ Acted Education as question subject of paper UG and scrutinizer PG for Programs the at Special Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 27 October 2017.

- ❖ Acted as a resource person for State Level Residential Training of Special Educators for IEDSS held on 14.11.2017.
- ❖ Acted as external examiner for practical examination for the M.Ed., Special Education (Visual Impairment) at Department of Special Education, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 31 October 2017.
- ❖ Mrs. K. Dhanalakshmi, In-charge, Low Vision Unit, attended a 2-day National Workshop on ‘Tactile and Audio Graphics for the Visually Impaired school of Informatics and computing, Indiana University, USA and All India Confederation of the Blind-Assistech Team, IIT organized by All India Confederation of the Blind, New Delhi from 5-6 April 2017.
- ❖ Attended a two-day workshop on ‘Personality Profiling using Rorschach Ink-blot Test’, conducted by the Department of Psychology, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 7-8 November 2017.
- ❖ Delivered a lecture on “Assistive Devices and Technology for Visually Impaired” in the three-day CRE Program on “Technology for Differently Abled” jointly organized by NIEPMD and Helix Open School & Learning Centre, Salem on 23 August 2017.
- ❖ Attended a two-day International Conference on “The Greatness of India” organized by Sri Ramakrishna Mission Vidyalaya, Arts and Science College, Coimbatore, on 2-3 February 2018.
- ❖ Presented a paper titled “Effect of functional vision training on Reading skills of Students with Low Vision” in the three-day International Conference on “Science and Humanities for grooming the future: An Interdisciplinary Approach” (ICSHI), organized by the College Development Council in collaboration with the Departments of Human Genetics and Molecular Biology, Biochemistry, Botany, Education, Physical Education and Extension and Career Guidance at Bharathiar University, Coimbatore, from 7-9 February 2018. Dr. Sudha A. (Asst. Professor and HoD – Dept. of MR)
- ❖ Presented a joint paper with Ms. Sampurna Guha (Ph.D. Scholar) on “A Study of Awareness about Developments in Special Education-Policies and Legislations for Persons with Disabilities among Educators” at a National Conference on Inclusive Education (NCIE) 2017 organized by JANEY college of Applied Health, held at Ernakulum on 10-12 April 2017.
- ❖ Acted as a guest speaker and delivered a special lecture on "Challenges in Inclusive Education" in a two-day International Symposium organized by Department of Education & Rehabilitation Science, Alagappa University, Karaikkudi on 28-29 August 2017
- ❖ Attended a one day “All India Course Coordinators Meet: Southern Zone -2017” held on 9 September at Chennai convened by National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD).
- ❖ Acted as resource person in a CRE Program conducted by Avinashilingam Institute for Home Science and Higher Education for Women, Dept. of Special Education, in

collaboration with NIEPMD, Chennai on “Preparation of Teaching Learning Materials (TLM) for the Special Teachers” on 14 September 2017.

❖ Acted as an external examiner for Practicum of B.Sc. Special Education (Intellectual Disability) and also delivered a guest lecture on “Acts and Policies pertaining to Persons with Intellectual Disability in the light of RPD ACT, 2016” at Department of Special Education, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 31 October 2017.

❖ Gave a special talk in Annual Planning Meeting of Leonard Cheshire Disability (LCD) at Lemon Tree Hotel, Coimbatore on 9 January 2017.

❖ Presented a paper with Ph.D. student Ms. Sampurna Guha titled “Values for Social Inclusion: Values Needed by Children with Intellectual Disability for Social Mainstreaming” in an international conference on Social Science and Humanities-ICSCH in New Delhi on 12 January 2018.

❖ Acted as an invited speaker and presented a paper titled “Model to Challenge Exclusion in Employment” in an International Conference on “Challenging Exclusion” held at SRM Institute of Science and Technology, Chennai, from 30 January to 2 February 2018 organized by NIEPMD, Chennai, in collaboration with University of Northampton, UK.

❖ Acted as resource person at Maa Sharada Centre for CP Children, Visakhapatnam on 12, 13 & 14 March 2018.

Dr. Saumya Chandra (Asst. Professor, Dept. of MR)

❖ Acted as an external examiner at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 08.05.2017 for Central Evaluation.

❖ Acted as a resource person in Vidyavanam School for Tribal & Under Previlaged Children, Anaikatti, Coimbatore on 10 July 2017.

❖ Acted as a visiting expert from RCI New Delhi for assessing the D.Ed. and B.Ed. Special Education (Mental Retardation & Autism) programs offered by AWH College of Education, Calicut and Malabar Institute for Special Need Children, Malappuram Kerala on 25 & 26 Sep 2017.

❖ Acted as one of the external resource persons of the technical committee for ‘Centre of Disability Management Studies of Kerala University of Health Sciences’, Trissur, Kerala on 7 November 2017.

❖ Acted as resource person at Maa Sharada Centre for CP Children, Visakhapatnam on 5-6 March 2018.

Dr. S. Logeshkumar (Asst. Professor, Dept. of MR)

- ❖ Acted as a visiting expert to assess the training courses B.Ed and M.Ed Special Education (MR) at Sweekaar Institute of Rehabilitation Sciences, Secunderabad, Telangana on 29 July 2017.
- ❖ Acted as a resource person for the CRE program organized by the Vidya Vikashini Opportunity School, Coimbatore, on 20 November 2017.
- ❖ Attended a One-day National workshop on “Statistical Analysis in Educational Research organized by PGP College of Education, Namakkal, on 20 January 2018.
- ❖ Acted as a visiting expert from RCI New Delhi for assessing the D.Ed. Special Education (Mental Retardation & Autism) programs offered by Faith India Institute of Special Education, Palakkad & Pope Paul Mercy Home, Teachers Training Centre, Thrissur and Mental Health Centre, Kusumagiri, Cochin on 20 th , 21 st and 22 nd March 2018.

Dr. Prabha Hariharan (Asst. Professor, Dept. of MR)

- ❖ Delivered a guest lecture on 'Identification and Screening of Individuals with Disabilities' to NSS students at the NSS camp of Avinashilingam Institute of Home Science and Higher Education for Women, on 11 February 2018.
- ❖ Nominated as members of RCI- Zonal coordination committee, Southern Zone III (Tamil Nadu, Pondicherry & Andaman and Nicobar Islands) on 7 February 2018.
- ❖ Acted as a resource person for State Level Residential Training of Special Educators for IEDSS held on 14.11.2017.

Mrs. V. Indirani (In-charge-Special Education Unit)

- ❖ Acted as external examiner for practical examination for the B.Ed., Special Education (Mental Retardation) of TNOU at Vidya Vikashini Opportunity School, Coimbatore on 1-2 November 2017.
- ❖ Acted as a resource person in CRE program organized by SSA, Erode on 28 December 2017.

Mr. T. Pandiyan (Physical Educator)

- ❖ Acted as resource person at Maa Sharada Centre for CP Children, Visakhapatnam on 8-9 March 2018

Dr. Ramakrishna P. (Asst. Professor and HoD - Dept. of HI)

- ❖ Acted as a visiting expert from RCI New Delhi for assessing M.Ed. (HI) at AYJNHH-SRC, Secunderabad, Telangana on 9-10 May 2017.
- ❖ Acted as a visiting expert from RCI New Delhi for assessing D.Ed. (HI), B.Ed. (HI) & DHLS at Sai Education Society, Maharastra on 12-13 June 2017.

- ❖ Acted as a resource person in a two-day National Seminar on Trends and Developments in the Education of Children with Hearing Impairment held at AWH College of Education, Calicut on 26-27 February 2018.
- ❖ Acted as an external examiner for practicum of B.Sc. & M.Ed., Special Education (Hearing Impairment) Program at Department of Special Education, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 30-31 October 2017.
- ❖ Dr. P. Ramakrishna and Dr. S. Parween acted as external evaluators in central valuation at Avinashilingam Institute for Home Science and Higher Education for Women on 28-29 November 2017.
- ❖ Nominated as members of RCI- Zonal coordination committee, Southern Zone III (Tamil Nadu, Pondicherry & Andaman and Nicobar Islands) on 11 October 2017.

Mrs. S.N. Hamsapriya (Asst. Professor, Dept. of HI)

- ❖ Acted as a visiting expert to assess the training institute for extension of the DISLI Course for the academic session 2017-18 at National Institute of Speech & Hearing (NISH), Trivandrum, Kerala on 29 July 2017.
- ❖ Gave guest lecture on “Basics of Research Methodology” at Cheran College of Physiotherapy, Perur, Coimbatore on 16 September 2017.
- ❖ Acted as a resource person for State Level Residential Training of Special Educators for IEDSS held on 14.11.2017.
- ❖ Mrs. M. Senthilvani, In-charge, Speech Therapy Unit, FDMSE acted as a resource person in CRE program organized by SSA, Erode on 27 December 2017.
- ❖ Mrs. R. Jothimani, Librarian, FDMSE attended a meeting for the librarians of Vidyalaya Institutions organized by SRKV College of Education on 20 November 2017.
- ❖ Mrs. R. Jothimani, Librarian, Mrs. M. Senthilvani, In-charge-Speech Therapy Unit and Mrs. V. Indiran, In charge Play Therapy Unit, attended a National Seminar on “Metrics in Research, Publication and Career Development” organized by SRKV College of Education on 25 January 2018.

Activities/Programs/Events by Teacher Trainees

- ❖ Teacher trainees participated in the All Vidyalaya Independence Day Parade held at Maruthi College Ground and got the third place on 15 August 2017.
- ❖ Ms. R. Manipriya, Ms. G. Vanmathi and Mr.S. Rajeshkannan (teacher trainees with VI. pursuing the program B.Ed VI) attended a One day National Workshop on “Career Opportunities through Communication Skills for Visually Challenged Students” at Bharathiar University, Coimbatore on 2 September 2017.
- ❖ FDMSE teacher trainees participated in the Kalaimagal Vizha program from 20 to 22 September 2017.

- ❖ On the 1st day of Kalaimagal Vizha Mrs. Roopavathy, (B.Ed.-MR) presented a speech on “Thayaai Vantha Aadhi Shakthi” on 20 September 2017.
 - ❖ On the third day of Kalaimagal Vizha program, eleven teacher trainees presented a thematic dance drama on “Sumbha Vadham”, depicting the killing of the demon king Sumbha by Goddess Durga on 22 September 2017.
 - ❖ Nine teacher trainees (B.Ed., & M.Ed.) attended a One-day workshop on “Understanding the Adolescents with Dyslexia and how to help them cope up with their Psychological, Social & Emotional needs” organized by Reshmika Centre for Learning & Counseling, Coimbatore on 7 October 2017.
 - ❖ Mr. S. Rajeshkannan, (B.Ed.-VI), attended a One day workshop on “Career Guidance, Assistive Technology and Personality Development (CAP) for the Visually Impaired Students in Higher Education” organized by Bharathiar University and National Institute of Personnel Management, Coimbatore Chapter on 7 October 2017.
 - ❖ N. Umamaheswari, (B.Ed.-MR), won third prize in Gurupuja Literary Competition 2018 in the District Level English Essay Competition.
 - ❖ Mr. Baiju Thomas (M.Ed.-MR) & Mr. Abdul Rakeeb (M.Ed.-VI) attended a two-day workshop on “Assistive Technology and Communication” held at Avinashilingam Institute of Higher Education for Women, Coimbatore on 17 & 18 January 2018.
- Activities/Programs / Events by Therapy Unit Children
- ❖ The first ‘National Level Coaching Championship Camp for Netball’ was organized by “Special Olympics Bharath, India” from 25 to 30 May 2017 and conducted at Sonipat, Haryana. Three students of Vocational Unit, FDMSE - Sri Surya, Sri Gowtham and Sri Ramesh participated in the Tamil Nadu Team which won third prize (Bronze Medal).
 - ❖ Ten students from Special Education Unit participated in ‘Lakshya Cultural and Literary Events’ conducted by the Rotaract Club of Sri Ramakrishna Institute of Technology on 06 January 2018 and won 9 first prizes and 6 second prizes.
 - ❖ Seven Students and one Staff of Therapy Unit participated in ‘Vidyal Cultural and Literary Events’ conducted by the Rotaract Club of Ambattur in Palladam.
- All the students received a set of Educational Kit.
- ❖ Eighteen students and one Staff from Therapy Unit participated in ‘Sahayam Cultural and Literary Events’ organized by the Rotaract Club of Saibaba Colony in Akshaya College of Technology, Kinathukadavu on 27 January 2018. Eleven Students won first prize and nine students won second prize.
- Week for Holistic Welfare of Children FDMSE in partnership with RKMVERI-Belur Math, West Bengal and Globally with ARIGATOU, International, Tokyo, Japan (Secretariat in New York, USA) organized a Week for Holistic Welfare of Children from 23 -27 November 2017 at FDMSE premises. Gurupuja 2018 Ramakrishna Mission Vidyalaya celebrated Gurupuja on 7 January 2018. FDMSE staff & trainees were involved in various activities. The theme of Exhibition put up by FDMSE was “Teaching Learning Materials (TLMs) for Children with Special Needs”. Various items prepared and collected--using commonly available materials as well as high-end

technology such as 3D printing which can help children' different learning needs to understand concepts in Language, Maths, Science and Social Science. Unified Play Day FDMSE put up various stalls related to Special Education & Rehabilitation in 'Unified Play Day' Celebration on 21 February 2018 at Indoor Stadium. The stalls included Puzzle Activity, Water Play, Creative & Sand Play, Vision & Speech Therapy; Movement based play & Art therapy, Sensory integration & Handicrafts' Exhibition.

Vivekananda Study Circle Activities:

The members presented lectures on the following topics:

Date	Speaker	Topic
09.12.2017	Swami Divyaprajnananda	Basics of Spiritual Life
03.12.2017	Mrs. S. Roopavathy Student: B.Ed. (MR)	Necessity of Religion
15.12.2017	Dr. Prabha Hariharan	Practical Spirituality
03.02.2018	Mr. Karthigai Selvam Student: M.Ed. (MR)	Who am I?
10.2.2018	Mr. Mahendran Student: Integrated B.Ed. M.Ed. (ID)	Powers of Mind
03.3.2018	Ms. Mausumi Palei Student: B.Ed. (VI)	Steps to Realization
10.3.2018	Mr. Som Krishan Student: M.Phil.-Ph.D. (HI)	Concentration
17.3.2018	Ms. Nandita Chakrabarty Student: M.Phil.-Ph.D. (MR)	We Help Ourselves, Not the World
24.3.2018	Mrs. Kamakshamma Murthy	Spiritual Life of India People

VSC also celebrated various socio-cultural festivals i.e. Krishna Jayanthi, Vinayagar Chaturthi, Saraswathi Puja, Siva Ratri and Ramanavami. General

❖ Swami Divyaprajnananda, Assistant Admin. Head, FDMS with Dr. S. Alagesan, Professor & Head, GAPEY attended the International Conference on "Access to Livelihood for Persons with Disabilities" on 13-14 June 2017 in Bangalore.

❖ Certificate Course on Pre-Employment Skills for Persons with Intellectual Disabilities started at FDMSE in collaboration with LCD on 28 June 2017.

- ❖ All staff members attended a faculty education program on awareness of GST organized by the Department of Commerce - SRKV College of Arts & Science on 7 July 2017.
- ❖ A five-day Bridge Course was conducted from 13-18 July 2017 for the new students.
- ❖ FDMSE women staff team won the Inter Vidyalaya throw ball tournament held on 7, 8 & 9 August 2017.
- ❖ RCI New Delhi gave approval for three-year Integrated B.Ed.-M.Ed. in the area of Intellectual Disability for three batches (2017-18, 2018-19, 2019-20).
- ❖ A workshop on '3-D printing' was organized by RKMVERI- FDMSE on 28- 29 October 2017 at the RKMVERI-GAPEY Computer Lab.
- ❖ RKMVERI-FDMSE celebrated the birth anniversary of Sardar Vallabhbhai Patel on 31 October 2017 as “Nation Salutes Sardar Vallabhbhai Patel, the Unifier of India”.
- ❖ RKMVERI-FDMSE observed the ‘International Day of Persons with Disability’ on 14 December 2017.
- ❖ Academic Audit was conducted on 2 November 2017.
- ❖ Faculty members & students took part in the procession organized by Vidyalaya in commemoration of 150 th Birth Anniversary of Sister Nivedita on 7 February 2018.
- ❖ All faculty members attended “Faculty Enrichment Program on Library and Learning Resources - MOOC and SWAYAM online courses” organized by All Vidyalaya Library Committee in College of Arts and Science on 12 February 2018.

Visitors

- ❖ Mrs. G. Vijaya, Superintendent, Mrs. V.K. Latha, Teacher from Government Juvenile Home, Coimbatore visited FDMSE on 6 July 2017.
- ❖ Dr. Stanley Bourgeault, former consultant CBM, visited FDMSE on 4 November 2017.
- ❖ Swami Mahayogananda from Vedantha Society of California (USA) visited FDMSE on 20 November 2017.
- ❖ Swami Vishweshanandaji from Itanagar, visited FDMSE on 13 March 2018.

**DEPARTMENT OF GENERAL AND ADAPTED PHYSICAL
EDUCATION AND YOGA (GAPEY), COIMBATORE
CAMPUS**

INTRODUCTION:

The Department offered the following courses:

D. P. Ed., B. P.Ed., B. Sc. in Physical Education, M. P. Ed., M. Phil. , Ph.D. , Certificate courses in Aerobics, Kalari, Yoga, Fitness, Adapted Physical Education and Tennis, and Diploma Course in Special Olympics.

This year the total strength of the Department was 209.

SEMINARS & WORKSHOPS:

1. One day workshop on Wheelchair Accessibility and Sports was jointly organised by GAPEY, Leonard Cheshire Disability and University college of London and Global Disability innovation Hub on 31.05.2017.
2. A two day State Level Workshop on Modern Trends in Football Coaching and Officiating during 01st and 02nd September 2017.
3. National Conference on Ensuring Inclusive and Equitable Quality Education and Sports for the Empowerment of Women with Disabilities during 23rd and 24th February 2018.
4. SCERT Workshop on Text book writing (Physical Education) was organized from 19.02.2018 to 02.03.2018 at GAPEY.

STAFF DEVELOPMENT PROGRAMME:

1. GAPEY organised a workshop on Computer Application in SPSS on 29th and 30th May 2017
2. Staff Development Programme in Communication Skills was organized from 19.06.2017 to 24.06.2017 through iBrand
3. Two day workshop on “360 fusion 3D software” was conducted at University Computer Laboratory. Dr. M. Srinivasan and Dr. R. Giridharan, Assistant Professor GAPEY attended the workshop on 28th and 29th October 2017 & 25th to 30th November 2017.
4. Dr. J. Chandrasekaran, Head of the Department of Physics, SRKV College of Arts & Science conducted an orientation programme on “Research Project” for all the GAPEY staff members and MCPE Staff members on 21.03.2018.

SCHOLARSHIPS:

University has provided sports scholarship for the following meritorious players for the year 2016-2017

S. No.	Name	Game	Class
1	VIJAY.K	Gymnastics	MPed I
2	KARTHIKEYAN.S	Tennis	BPEd II
3	KAPILAN.R	Football	BSc II
4	AJITH KUMAR.S	Ball Badminton	BPEd I
5	MANIGANDAN.C	Football	MPed I
6	PREM KUMAR.B	Kabaddi	BPEd I
7	BOBIN D' SOUZA.M	Volleyball	BPEd II
8	MANIGANDAN.K	Hockey	BPEd II
9	SENTHIL KUMAR.S	Football	MPed I
10	ARUNVEL.B	Handball	MPed I
11	RANJITH SINGH YADAV.K	Best Physique	MPed I
12	CLINTON.M	Boxing	BSc III
13	KESAVAN.A	Ball Badminton	BSc I
14	RAGU.R	Handball	BPEd II
15	ARUNKUMAR.R	Volleyball	BPEd II
16	PRASANTH.R	Football	MPed I

PLACEMENT:

Campus interviews were conducted and the following students have been recruited for appointment. Except for students undertaking higher studies all the students got placement.

Date	Employer	No. of Students Recruited
05th & 06th March 2018	Sports Gurukul	13
16.03.2018	Right Stride	09

STUDENTS PARTICIPATION:

Our University Participated in the Following Inter University Competition:

S. No.	Date	Team	Venue	Organizing University
1	04th to 06th October 2017	Table Tennis	Coimbatore	Amrita Vishwa Vidyapeetham
2	19th to 22nd October 2017	Chess	KPR Institute of Engineering and Technology, Coimbatore.	Anna University
3	21st to 25th October 2017	Handball	Vikas College of Physical Education, Nunna.	Krishna University
4	18.11.2017 to 25.11.2017	Boxing	Chandigarh	Panjab University
5	19th to 22nd November 2017	Kabaddi	Chennai	Sathiyabama University

6	06.12.2017 to 10.12.2017	Badminton	Guntur	KL University
7	20th to 23rd December 2017	Best Physique	Chandigarh	Punjab University
8	24.12.2017 to 29.12.2017	Volleyball	Chennai	SRM University
9	27th to 30th December 2017	Ball Badminton	Kadappa	Yogi Vemana University
10	26th to 31st December 2017	Archery	Bhubaneswar	KIIT University
11	03.01.2018 to 12.01.2018	Cricket	Andhra University	Viskhapatnam
12	17.01.2018 to 20.01.2018	Kho-Kho	Mysore	University of Mysore
13	22.01.2018 to 28.01.2018	Hockey	Bangalore	Bangalore University
14	19th to 23rd December 2017	Tennis	Tirupati	Sri Venkateswara University
15	05th to 09th February 2018	Powerlifting	Chandigarh	Panjab University
16	21st to 29th December 2017	Football	Calicut	University of Calicut
17	25.09.2017 to 27.09.2017	25th Karunya Evangeline Memorial Tournament	Coimbatore	Karunya University

SPORTS ACHIEVEMENTS:

Our students had won in the following sports & games competition.

Date	Name/Team	Tournament	Positions
29th & 30th April 2017	SRKV Hockey club	Coimbatore District Hockey League organised at Karunya University	III Place
	Ball Badminton Football Kabaddi Handball Cricket Hockey Volleyball Staff Volleyball	Inter Vidyalaya Tournament	Winner Winner Runners Up Runners Up Runners Up Runners Up Runners Up
23.07.2017	A. Mickelraj, BPed II	20th All India Karate and Kung-Fu Championship 2017	I Place
09th July 2017	T. Madan Kumar, BSc II	1st TOGA South Indian Archery Games 2017-18	I Place

Date	Name/Team	Tournament	Positions
13.08.2017	B. Gowtham	KSAI 4th Inter Dojo Karate – Do Championship Kumite category State Level Karate Games – 2K17 Kata category State Level Karate Games – 2K17	Gold Medal I Place I Place
15th August 2017 17th September 2017 24.12.2017	K. Ranjith Singh Yadav	Theni District Open Body Building Competition Mr. Coimbatore 2017 Open Body Building Competition Mr. Theni 2017 Best Physique Championship	“Overall Winner” & Best Poser award Fourth Place I Place
20.08.2017	Hawang Hakhi – BSc III Ram Kumar.S – BPED II Manojkumar.B – BPED I Mariappan.G – BSc I	Salem District Boxing tournament	Silver Bronze Bronze Bronze
13.08.2017	Aravindh.M Sudarvannan.D Ramesh Aravind.J	1st TOGA Archery Inter district level championship	Gold Silver Gold
28th & 29th October 2017 24th to 28th November 2017	M. Kumaresh, BSc III	60 kg category Boxing competition in the Rural Games Tamilnadu State Championship 2017 VII National Rural Games 2017 in the Kick Boxing U-19 organized by Tamilnadu Rural Games Association at Rasipuram.	Gold Medal First Place
28th & 29th October 2017	J. Nirmal Selva Prabhu, BSc II	70 kg category Boxing competition in the Rural Games Tamilnadu State Championship 2017 IV Rural Games Federation Cup 2017-2018	Gold Medal I Place

04.11.2017 to 07.11.2017	S. Dhayanand	Represented Tamilnadu State Kabaddi Team in the Sub Junior National Kabaddi Championship held at Dumka, Jharkhand	III Place
19th November 2017	U. Pandeewaran	Open State Dead Lifting Championship 2017	II Place
24th to 28th November 2017	K. Manigandan, BPEd II	Represented Tamilnadu State Football team in VII National Rural Games 2017 organized by Tamilnadu Rural Games Association at Rasipuram.	I Place
24th to 28th November 2017	R. Kapilan, BSc II	Represented Tamilnadu State Football team in VII National Rural Games 2017 organized by Tamilnadu Rural Games Association at Rasipuram.	III Place
01.12.2017	K. Naveen, BPEd I	CM Trophy District Level Badminton Tournament	II Place
26.01.2018	Students	Republic Day	I Place Senior Marching Trophy
12th & 13th February 2018	Ball Badminton	State Level Men Ball Badminton tournament organized by Selvam College of Physical Education at Namakkal	III Place

The following students won prizes in the Swami Vivekananda's Chicago Address Oratorical Competition held on 19.08.2017

Level	Title	Position	Name of the student	Class
Degree level English	Reply to the Address of Welcome at Madurai	First	LOKAVEL.K	BSc III
		Second	RAM KUMAR.S	BPEd II
		Third	SAGARA CHANDRA.K	BSc I
Degree level Tamil	கிழவியின் மகிழ்ச்சி தந்தையின் மகிழ்ச்சி	First	KARTHICK.P	BPEd I
		Second	HARIHARAN.M	BSc I
		Third	PRABAKARAN.L	BSc I

RESEARCH & PUBLICATIONS:

Ph.D. / M.Phil. Viva Voce Examinations were held for the following candidates:

Date	Degree	Name	Guide	Examiner
08.07.2017	Ph.D.	Mr. Rajib Ghosh	Dr. P.J. Sebastian	Dr. A. Palanisamy
21.07.2017	Ph.D.	Mr. K. Shantha Kumar	Dr. S. Alagesan	Dr. S.K. Raj Kumar
21.07.2017	Ph.D.	Mrs. Annie Thomas	Dr. Ch. VST. Saikumar	Dr. S.K. Raj Kumar
25.07.2017	Ph.D.	Mr. C. Kumaresan	Dr. S. Alagesan	Dr. C. Arumugam
05.08.2017	MPhil	7 Scholars	Concerned Staffs	Concerned External Expert
04.11.2017	MPhil	3 Scholars	Concerned Staffs	Concerned External Expert
04.11.2017	Ph.D.	Mr. Shaik Meeravali	Dr. M.Srinivasan	Dr. P. Jhonson
01.02.2018	MPhil	L. Dineshkumar	Dr. Mrs. Amirtham Sebastian	Dr. VST. Saikumar
		V. Shanmugam	Dr. P.J. Sebastian	Dr. T. Jayabal
16.03.2018	Ph.D.	G. Balasundar	Dr. T. Radhakrishnan	Dr. S. Madialagan

RESEARCH PROJECTS:

Dr. M. Srinivasan, Assistant Professor has received “University Level Project” sanctioned by RKMVERI, Coimbatore campus, the pilot project entitled “Implementation of Yoga with low tech assistive devices on life skills development among person with intellectual and developmental disabilities”.

PUBLICATIONS

JOURNAL:

GAPEY is publishing 3 research articles every month in its online Journal International Journal of Adapted Physical Education and Yoga with 4.2 impact factor.

BOOKS:

Dr. M. Srinivasan, Assistant Professor of GAPEY published the following books:

- (i) “Handbook of Badminton Training Programme” published by Sports Publication, New Delhi
- (ii) “Calisthenics and Light Apparatus Exercises” published by RKMVERI, Faculty of GAPEY, Coimbatore campus.

AWARD:

Dr. M. Srinivasan, Assistant Professor was conferred with the award “Excellence Teaching in Higher Education” for the year 2017 by ARUNAI International Research Foundation, Chennai.

RESEARCH ARTICLES:

The staff and students published research articles in various National and International journals

RESEARCH MEETING:

Research Committee Meetings were held as following:

Date	No. of Scholars	Research Committee
29.04.2017	8	Dr. S. Alagesan, Dr. VST. Saikumar, Dr. P.J. Sebastian, Dr. M. Srinivasan
29.07.2017	1	Dr. S. Alagesan, Dr. VST. Saikumar, Dr. P.J. Sebastian, Dr. M. Srinivasan
28.10.2017	3	Dr. S. Alagesan, Dr. VST. Saikumar, Dr. P.J. Sebastian, Dr. M. Srinivasan
29.01.2018	5	Dr. S. Alagesan, Dr. VST. Saikumar, Dr. P.J. Sebastian, Dr. M. Srinivasan

DOCTORAL COMMITTEE MEETING:

Doctoral Committee Meeting / General Test Committee Meeting were conducted as per the following schedule

Date	Name of the Scholar	External Expert	Guide
05.09.2017	D. Sivakumar	Dr. E. Amudhan	Dr. Dibakar Debnath
09.09.2017	B. Vigneshprasanna	Dr. M. Srinivasan	Dr. P. Kaleeswaran
09.09.2017	Gollapothu Nageswara Rao	Dr. P.J. Sebastian	Dr. Ch. VST Saikumar
09.09.2017	R. Rajeshkumar	Dr. R. Giridharan	Dr. R. Annadurai
09.09.2017	Biswanath Biswas	Dr. S. Alagesan	Dr. V. Gopinath
09.09.2017	V. Kannan	Dr. S. Alagesan	Dr. V. Gopinath
09.09.2017	Vavileti Balaji	Dr. Amirtham Sebastian	Dr. S. Sethu
24.02.2018	Vavileti Balaji	Dr. Amirtham Sebastian	Dr. S. Sethu
28.02.2018	D. Sivakumar	Dr. Dibakar Debnath	Dr. E. Amudhan
28.02.2018	Gollapothu Nageswara Rao	Dr. P.J. Sebastian	Dr. VST. Saikumar
02.03.2018	V. Kannan	Dr. S. Alagesan	Dr. V. Gopinath
	Biswanath Biswas		
03.02.2018	R. Rajeshkumar	Dr. R. Giridharan	Dr. R. Annadurai

STAFF & STUDENTS PARTICIPATION & PRESENTATION OF PAPER IN SEMINARS:

Name	Workshop & Seminar Name	Date	Organised by
Dr. S. Alagesan	International Conference on "Access to Livelihoods" for persons with disabilities	13th and 14th June 2017 at Bangalore	
Staff & Students	State Level Kabaddi Workshop	21st and 22nd August 2017	Maruthi College of Physical Education
Staff & Students	State Level Workshop cum Officiating in Handball	22nd & 23rd January 2018	Maruthi College of Physical Education

Dr. M. Srinivasan	Presented paper in the National Seminar on Adapted Physical Education and Sporting Possibilities in Inclusive Set up	18.01.2018	Avinashilingam University
Dr. Dibakar Debnath	Presented paper in the National Seminar on Adapted Physical Education and Sporting Possibilities in Inclusive Set up	18.01.2018	Avinashilingam University
Dr. M. Srinivasan, Dr. Dibakar Debnath & Sri D. Yuvaraj	Participated in the National Seminar on Metrics in Research, Publication and Career Development	SRKV College of Education	25.01.2018
All Staff members	Attended the Faculty Enrichment programme on MOOC and Swayam Online courses	Vidyalaya at College of Arts & Science	12.02.2018
All Staff & Students	Attended National Conference on Yoga for World Peace	Maruthi College of Physical Education.	26th & 27th February 2018
Dr. M. Srinivasan	Attended International Conference on The Greatness of India	03.02.2018	Sri Ramakrishna Mission Vidyalaya College of Arts & Science
Dr. M. Srinivasan	Attended the Post Conference workshop on Universal Design for Inclusion of International Conference on Bridging Innovations in Sports, Education and Nutrition	Avinashilingam Institute for Home Science and Higher Education for Women	10.02.2018

STAFF ACTIVITY:

Name	Nature of work	Organised & Venue	Date
Dr S Alagesan	Attended the Board of Studies Meeting	Maruthi College of Physical Education	28.04.2017
	Acted as external examiner for central valuation	Maruthi College of Physical Education	01st and 02nd May 2017.
	Attended the Passing Board Meeting	Maruthi College of Physical Education	08.05.2017
	Attended a Committee Meeting in connection with	Ramakrishna Mission Vidyalaya Central	16.05.2017

	the conduct of State Level Intercollegiate Tournament	Office Conference Hall	
	Attended the College Committee Meeting	SRKV College of Arts & Science	18.05.2017
	College Committee Meeting.	Ramakrishna Mission Vidyalaya College of Education	29.05.2017
	Attended the Inter Disciplinary Board of Studies Meeting	Avinashilingam University	17.05.2017
	Attended the Fixtures Meeting of Inter Vidyalaya Tournament	Ramakrishna Mission Vidyalaya	28.06.2017
	Visited as a member of Physical Verification Committee for the "Sports Infrastructure & Equipments' Fitness Centre with Sports Sciences Back-up"	Maruthi College of Physical Education	01.08.2017
	Attended Anti Ragging Meeting	FDMSE	08.08.2017
	Acted as External expert in the Doctoral Committee meeting	Maruthi College of Physical Education	05.08.2017
	Acted as external examiner for the MPhil Viva Voce examination	Karunya University, Coimbatore	11.08.2017
	Attended the Board of Studies Meeting for Self Study Extra Credit Elective Course	SRKV College of Arts and Science	28.10.2017
	Attended the Board of Studies in Sports Meeting	Sri Ramakrishna Mission Vidyalaya, College of Arts & Science	02.11.2017
	Acted as external examiner for central valuation	Maruthi College of Physical Education	12th, 13th & 14th November 2017
	Delivered a talk on "Self Confidence" in the Prayer meeting	ITI	14.11.2017
	Attended the Alumni Silver Jubilee committee meeting	Ramakrishna Mission Vidyalaya	09.11.2017
	Acted as a selection committee member to select	PPG College of Arts, Coimbatore	03.01.2018

	director of physical education		
	Acted as External expert in the Doctoral Committee meeting	Maruthi College of Physical Education	20.01.2018
	Acted as guest lecturer for D.Ed. class	TNOU at GTTI	11.02.2018
	Attended Book Review Meeting	SCERT, Chennai.	14th and 15th February 2018
	External Expert for the Academic Audit	Department of Physical Education of Avinashilingam Institute for Home Science and Higher Education for women	07.03.2018
	Attended the Board of Studies in Sport	SRKV College of Arts & Science.	12.03.2018
	Attended the Vidyalaya Sports Committee Meeting	Ramakrishna Mission Vidyalaya at Central Office Conference Hall	19.03.2018
	Attended the Board of Studies in "Extra Credit Courses"	SRKV College of Arts & Science	21.03.2018
	Attended the Library Committee Meeting	Ramakrishna Mission Vivekananda Educational and Research Institute at FDMSE Conference Hall.	21.03.2018
Acted as Resource Person			
Dr. S. Alagesan	Chairperson on Developing New Curriculum - 2017	SCERT, Chennai	28.07.2017
	Chairperson in the National Conference on Yoga, Herbal and Traditional Medicines	Indian Institute of Yoga and Naturopathy along with TNAU and TNPESU	09th October 2017
	Acted as resource person in the Knowledge Enhancement Programme for Physical Education Teachers	District Inspector of Physical Education, Coimbatore.	14.12.2017
	Acted as Resource Person in the National	Avinashilingam Institute of Home	17th January 2018

	Seminar on Edu Tech Jamboree	Science and Higher Education for Women, Coimbatore.	
	Acted as Resource Person in the UGC Sponsored Refresher Course in Physical Education	UGC – Human Resource Development Centre, Bharathidasan University, Trichy.	19.01.2018
	Acted as Resource person for the inauguration of VIMS Yoga Club	Vivekananda Institute of Management Studies, Coimbatore.	03.02.2018
	Acted as Resource Person for the Panel Discussion in the International Conference on Bridging Innovations in Sports, Education and Nutrition	Avinashilingam Institute for Home Science and Higher Education for Women.	09.02.2018

Name	Nature of work	Venue	Date
Dr. P.J. Sebastian	Attended the Board of Studies Meeting	Maruthi College of Physical Education	28.04.2017
	Attended the Ph.D. Course Work – Workshop Meeting	Physical Education and Yoga Centre, The Gandhigram Rural Institute.	13th & 14th July 2017
	Took classes on the topic Need for effective communication skills (Spoken) while dealing with children with special needs during the Bridge Course	FDMSE	15.07.2017
	Acted as External expert in the Doctoral Committee meeting	Maruthi College of Physical Education	05.08.2017
	Acted as Judge for the English Oratorical Competition Commemorating Swami Vivekananda’s Chicago address	Ramakrishna Mission Vidyalaya	11.09.2017
	Attended Leadership Academy Module III	Special Olympics Bharat. Kolkata	20.01.2018 to 24.01.2018

Acted as Resource Person			
	Acted as resource person in the Knowledge Enhancement Programme for Physical Education Teachers	District Inspector of Physical Education, Coimbatore.	13.12.2017
	Acted as Resource Person in the UGC Sponsored Refresher Course in Physical Education	UGC – Human Resource Development Centre, Bharathidasan University, Trichy.	06.02.2018

Name	Nature of work	Venue	Date
Dr. M. Srinivasan	Acted as external examiner for BPED students	Avinashilingam University, Coimbatore	05.04.2017
	Acted as an External Examiner for Central Valuation	Avinashilingam University, Coimbatore	09th May 2017
	Attended a Committee Meeting in connection with the conduct of State Level Intercollegiate Tournament	Ramakrishna Mission Vidyalaya Central Office Conference Hall	16.05.2017
	Attended the Board of Studies Meeting	FAR, Ramakrishna Mission Vivekananda University	20.06.2017
	External examiner for Practical Examination	FAR	30.06.2017
	Took classes on the topic Need of yoga for children with special need (Practical Activity) during the Bridge Course	FDMSE	14.07.2017

	Acted as selection committee member for Interview of Assistant Professor in Physical Education	FAR, RKMVU	19.07.2017
	Attended the Alumni Silver Jubilee committee meeting	Ramakrishna Mission Vidyalaya	09.11.2017
	Acted as External	CMS College of	21.11.2017

	Examiners in the Central Valuation	Commerce, Coimbatore	
	Conducted Yoga classes in the programme "Significance and Training of Yoga"	Vidyalaya College of Arts and Science at Government Hr. Sec. School, Velliangadu.	24.11.2017, 08.12.2017 & 05.01.2018
	Acted as External Examiner in the Central Valuation	TNPESU	11th, 12th & 13th December 2017.
	Acted as examiner for the Physical Education practical examination	RKMVERI – FAR	27.12.2017
	Attended the Vidyalaya Sports Committee Meeting	Ramakrishna Mission Vidyalaya	19.03.2018
Acted as Resource Person			
	Personality Development Camp for school students	All Vidyalaya Alumni Association.	05th and 06th May 2017
	Acted as Resource Person for Diploma in Early Childhood Care and Education	Gandhi Teacher Training Institute	20th August 2017
	Acted as resource person in the Rashtriya Madhyamik Shiksha Abhiyan (RMSA) In-service training to Special Educators		18th November 2017
	Acted as resource person to deliver a lecture on the topic "Yoga and Health Education"	Avinashilingam University	08.12.2017
	Acted as a Resource Person in Residential Workshop for Physical Education Teachers	Coimbatore Sahodaya Sports Complex held at Chinmaya International Residential School, Coimbatore	20.01.2018
	Acted as Resource Person in the State Level Master Trainers Training Programme	Sarva Shiksha Abhiyan at Neyveli	29.01.2018
Name	Nature of work	Venue	Date
Dr. R. Giridharan	Attended the Fixtures Meeting of Inter	Ramakrishna Mission Vidyalaya	28.06.2017

	Vidyalaya Tournament		
	Took classes on the topic Need of physical education for children with special needs (Practical Activity) during the Bridge Course	FDMSE	14.07.2017
	Acted as external examiner cum Guest Lecture on Adapted Physical Education	Avinashilingam University	02.11.2017
	Went for Question paper scrutiny	CMS College of Science and Commerce, Department of Physical Education	03.11.2017
	Acted as External Examiners in the Central Valuation	CMS College of Commerce, Coimbatore	21.11.2017
	Acted as experts to organize District Level Sports for Disabled	Ooty	25.10.2017
	Attended the Exhibition meeting	Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Self finance)	11.12.2017
	Attended Leadership Academy Module III	Special Olympics Bharat. Kolkata	20.01.2018 to 24.01.2018
	Attended the Special Olympics Leadership Training programme	Special Olympics Bharat Tamilnadu at Karaikudi.	17.02.2018
Acted as Resource Person			
	Acted as resource person for the In-service Training Programme on Disability	FDMSE	14.07.2017
	Acted as Resource person in the CRE Programme titled "Multi Sensory Approach in Pre School Education"	FDMSE	28.12.2017

	Acted as Resource Persons in the Post Conference workshop on Universal Design for Inclusion of International Conference on Bridging Innovations in Sports, Education and Nutrition	Avinashilingam Institute for Home Science and Higher Education for Women	10.02.2018
	Acted as Resource Person at Maa Saradha Cerebral Palsy Clinic and Learning Centre for giving Sports Training and Adapted Yogic practice for Severe Athletes	Ramakrishna Mission Ashram, Visakhapatnam	07th March to 09th March 2018

Name	Nature of work	Venue	Date
Dr. A. Sathiya Moorthy	Attended the Board of Studies Meeting	Faculty Center for Computer Science Applications and Research (FYCSAR)	20.05.2017
	Attended Anti Ragging Meeting	FDMSE	08.08.2017
	Attended the Initiation of the Add on Course on Pharmaceutical Chemistry	College of Arts & Science	09.01.2018
	Handled classes in the value added course on 'Pharmaceutical Chemistry' in the topic "Human Anatomy and Physiology".	Sri Ramakrishna Mission Vidyalaya College of Arts & Science	
	Acted as Resource Person		
	Acted as Resource person for "First Aid" awareness class	Sri Ramakrishna Mission Vidyalaya College of Education	02.01.2018
	Acted as Resource Persons in the Post Conference workshop on Universal Design for Inclusion of International Conference on Bridging	Avinashilingam Institute for Home Science and Higher Education for Women	10.02.2018

	Innovations in Sports, Education and Nutrition		
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Name	Nature of work	Venue	Date
Sri M. Ravi	Acted as Resource person for Yoga Classes	SRKV College of Arts & Science	

Name	Nature of work	Venue	Date
Sri P. Senthil Kumar	Acted as member of selection committee to select the Tamil Nadu Physical Education and Sports University cricket team	Maruthi College of Physical Education	11th to 13th September 2017.
	Acted as Resource Person in the NSS Camp of Vidyalaya College of Arts & Science	Seeliyur on the topic Traditional Sports	26.09.2017

Name	Nature of work	Venue	Date
Dr. Dibakar Debnath	Acted as external examiner for Practical examination of BSc students	Avinashilingam University, Coimbatore	04.04.2017
	Conducted Yoga classes in the programme "Significance and Training of Yoga"	Vidyalaya College of Arts and Science at Government Hr. Sec. School, Velliangadu.	08.12.2017

All the staff members attended the Health Awareness Programme "Prevention Measures for Bone-Joint pains and Osteoporoses on 20.07.2017 organised by Research and Faculty Enrichment Council, College of Arts and Science.

Five of our Non-Teaching staff were benefited from the Bone & Joints general medical camp on 19.11.2017 organized by Ramakrishna Mission Vidyalaya jointly with BRJ Ortho Centre & MAK Hospital, Coimbatore.

STUDENTS ACTIVITIES:

K. Lokavel, BSc III and P. Karthick, BPEd I participated in the Oratorical	Organized by Ramakrishna Mission Vidyalaya	11.09.2017
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Competition Commemorating Swami Vivekananda's Chicago address		
Participated in the 25th Karunya Evangeline Memorial Tournament	Karunya University, Coimbatore	25.09.2017 to 27.09.2017
Teaching Practice	visited various matriculation schools	04.10.2017 to 14.10.2017
MPed I students underwent internship for officiating Track & Field	Krishna Engineering College	10th & 11th October 2017
D. Sivakumar, MPhil acted as experts to organize District Level Sports for Disabled	Ooty	25.10.2017
Mr. K. Vijay, MPed I	Acted as resource person to teach gymnastics for the Karate students of Zen Martial Arts Academy	27.12.2017
Sri C. Manigandan and G. Premkumar MPed I year	Attended D Licence Course in Football at Ooty	08.01.2018 to 12.01.2018
MPed I & II Students	Visiting various special schools to coach the disabled persons	12.02.2018

ACTIVITIES OF STUDENTS WELFARE ASSOCIATION:

Students Literary Association and Intramural Committee Inauguration	14.07.2017
First Project Sports Meet	02.08.2017
Vinayagar Chathurthi	24.08.2017
Teacher's day	05.09.2016
Second Project Sports Meet	15.09.2017
Saraswathi Puja	28.09.2017
Annai Jayanthi	09.12.2017
Third Project Sports Meet	14.12.2017
Kalpatharu Day	01.01.2018
Swamiji Jayanthi	08.01.2018
National Youth Rally	11.01.2018
Sister Nivedita's 150th Birthday celebration public meeting	07.02.2018
Alumni Meeting	04.02.2018
Gurumaharaj Jayanthi	17.02.2018
IV Project Sports Meet	02.03.2018

12th CONVOCATION

12th Convocation of Ramakrishna Mission Vivekananda University was conducted on 09.09.2017.

TRAINING PROGRAMMES AND COMPETITION ORGANIZED BY THE DEPARTMENT

1. International Day of Yoga:

International Day of Yoga was celebrated on 21st June 2017. 1200 students from Ramakrishna Mission Vidyalaya Institutions assembled in football field at 07.00 am for a mass demonstration. The following students took part in the mass demonstration.

2. Leadership Training Camp:

74 Students and 5 staff members attended Leadership Training Camp at Sri Avinashilingam Krishi Vigyan Kendra, Vivekanandapuram from 22.09.2017 to 29.09.2017.

3. State Level Yoga and Kalari Competition:

GAPEY organised the 5th State Level Yoga Competition and 3rd State Level Kalari Competition on 31.01.2018 at Venkatakrisna Indoor Stadium.

4. State Level Archery Championship:

State Level Open Archery Championship was organized by GAPEY jointly with Bulls Archery Academy. A total number of 160 archers participated in the championship.

5. Youth Convention:

All the staff members and 21 students acted as volunteers to conduct Yoga and Recreational games in the Youth Convention during 01st, 2nd and 3rd December 2017.

6. Swachh Bharat Programme:

Our staff and students involved in the Swachh Bharat programme during the following days

Date	Place of Cleaning
18.07.2017	Carried out cleaning work at the premises of Periyanaickenpalayam Police Station
12.08.2017	Cleaning work at Periyanaickenpalayam Police Station
12.08.2017	Cleaned the bushes around Research Block and Tennis courts
19.09.2017	Cleaning work at Periyanaickenpalayam Police Station
08.12.2017	Cleaned both the sides of Gate No. 1 on the eastern side of Mettupalayam Road
08.12.2017	Cleaned the areas around Long jump pit, Shot put sector, 100 M track and Kabaddi court
28.12.2017	Cleaned the premises of assembly area near Academic Block

7. Indian Paralympics sitting volleyball

Indian Paralympics sitting volleyball team visited our Institution for Two days preparatory camp in our Venkatakrisna Indoor stadium on 21st & 22nd February 2018.

PROGRAMMES FOR PERSON WITH DISABILITIES

1. Unified Play Day – 2017

Unified Play Day was celebrated on 21.02.2018.

A total number of 370 students (254 Boys, 116 Girls) from 42 integrated schools, 138 parents and 47 Special education teachers participated in the Unified Play Day.

2. Coimbatore District Level Sports for Disabled:

Coimbatore District Level Sports for Disabled was organized in Collaboration with Sports Development Authority of Tamilnadu, Coimbatore on 27.10.2017. 157 children from 11 schools participated in various events for Physically Challenged, Visually Impaired, Hearing Impaired and Intellectually challenged. Sri H.S. Anandh, Proprietor, Lights and Lites, Coimbatore and Dr. R. Annadurai, Assistant Professor, Bharathiar University were the guests and distributed medals and certificates.

3. Inclusive Sports Meet:

Four Inclusive Sports meet were organized on 02.03.2018, 14.12.2017, 15.09.2017 and 02.08.2017

4. Yoga and Unified Sports:

GAPEY organised Yoga and Unified Sports for the Children in Connection with “Week for Holistic Welfare of the Children” on 27.11.2017. 140 children from various schools participated in the event.

EXTENSION ACTIVITIES:

STUDENTS FROM THE DEPARTMENT ACTED AS OFFICIALS IN THE FOLLOWING TOURNAMENTS:

Tournament	Organised by	Dates
Regional ITI tournaments	Ramakrishna Mission Vidyalaya ITI	12th and 13th April 2017
Sports day	Ramakrishna Mission Vidyalaya B.Ed. College	19.04.2017
Zonal Level Chess Competition	Thambu Higher Secondary School	30.06.2017
North Zone School Basketball tournament	Sai Vidhya Nikethan Matric Higher Secondary School	07th & 08th July 2017
North Zone School Football and Handball tournaments	Sai Vidhya Nikethan Matric Higher Secondary School	10th to 12th July 2017
North Zone inter school Tennikoit and Hockey tournament	Sai Vidhya Nikethan Matric Higher Secondary School	15.07.2017
Hockey tournament	Elgi Matriculation School, Vellalore	13th and 14th July 2017
North Zone School Hockey tournament	Sai Vidhya Nikethan Matric Higher Secondary School	on 15th & 19th July 2017
North Zone School Volleyball, Ball	Sai Vidhya Nikethan Matric	20th to 24th

Badminton and Kho Kho tournaments	Higher Secondary School	July 2017
North Zone inter school Basketball tournament	Sai Vidhya Nikethan Matric Higher Secondary School	29th to 31st July 2017
Inter Engineering Collegiate Volleyball and Football tournaments	Sri Ramakrishna Engineering College, Coimbatore.	28.07.2017 & 29.07.2017
Sahodhya Tennis tournament	Chinmaya International School	31.07.2017 & 01.08.2017
National Level open AITA tournament	KG Ramesh Tennis Academy	28.07.2017 to 04.08.2017
Marathon Race at Mettupalayam	Tamilnadu Sciences organisation, Mettupalayam	06.08.2017
Inter school sports meet for special children	Kaumaram Prashanthi Academy	11.08.2017
SAHODHYA Throwball tournament	National Model Senior Secondary School	30.08.2017 to 01.09.2017
Tamil Nadu Physical Education and Sports University Inter Collegiate Badminton tournament	Maruthi College of Physical Education	06th to 08th September 2017
Anna University Athletics Zonal Meet	Coimbatore Institute of Technology	12th & 13th September 2017
Anna University Football tournament	United Institute of Technology	12th to 14th September 2017
CBSE Sahodaya Tennis Tournament	SCAD World School, Palladam	15th September 2017
District Sports for Disabled	Rashtriya Madyamik Shiksha Abhiyan, Coimbatore at PSG Medical College grounds, Coimbatore.	28.11.2017
Coimbatore Division Inter Polytechnic Athletic Association (IPAA) Football tournament	PSG Polytechnic College, Coimbatore.	18th to 20th December 2017
Inter Polytechnic Handball tournament	Vidyalaya Polytechnic	02.01.2018
Hostel Sports and Games Volleyball and Kabaddi	Vidyalaya Polytechnic	01st, 03rd & 04th February 2018
Athletic Meet	Vidyalaya Polytechnic	25.02.2018
Conduct of Play festival -50 students acted as volunteers	Maruthi College of Physical Education.	16.02.2018

MEETING & FUNCTIONS:

Meeting & Function	Date
Annual Day	01.04.2017
Finance committee Meeting	11.04.2017
Library Committee Meeting	05.04.2017
Pre Board of Studies Meeting	27.04.2017
IQAC Meeting	29.04.2017
Board of Studies Meeting	18.05.2017
Academic Council Meeting	22.06.2017
Research Advisory Committee Meeting	22.06.2017
Welcome Meeting & Parents Meeting	29.06.2017
Bridge Course	30.06.2017 to 04.07.2017
University Computer Laboratory Inauguration	03.08.2017
IQAC Meeting	03.08.2017
Coaching classes for TRB competitive examination inauguration	11.08.2017
Institutional Ethics Committee	24.10.2017
Parents Meeting	28.10.2017
IQAC Meeting	04.11.2017
Research Advisory Committee	04.11.2017
IQAC Meeting	20.02.2018
Parents Meeting	12.03.2018
Library Committee Meeting	21.03.2018

EXAMINATIONS:

Examination	Date
Internal Practical Examination	03rd & 04th April 2017
External Practical Examination	07th and 11th April 2017
Theory and Practical examinations for certificate courses	12th, 13th and 15th April 2017
Pre Semester Examinations	17.04.2017 to 21.04.2017
Semester Examinations	25.04.2017 to 29.04.2017
MPEd Viva Voce examination	28.04.2017 & 05.06.2017
MPhil and Ph.D. entrance examination	10.07.2017
Continuous Internal Assessment I	17th & 18th August 2017
Continuous Internal Assessment II	20th and 21st October 2017
External Teaching Practice Examination	24.10.2017
Pre Semester Examinations	30.10.2017 to 03.11.2017
Semester Examinations	07.11.2017 to 11.11.2017
Continuous Internal Assessment I	19th and 20th January 2018
Continuous Internal Assessment II	19th and 20th March 2018
Internal Practical Examination	21st to 23rd March 2018

FACULTY CENTRE FOR AGRICULTURAL EDUCATION **AND RESEARCH (FAR), COIMBATORE CAMPUS**

The Department offers a four-year B. Sc. professional degree course in Agriculture adopting the latest findings and technologies in agriculture and allied sectors. Value based education forms an integral part of the curriculum. Tamil Nadu Public Service Commission (TNPSC), Government of Tamil Nadu, accorded recognition to the B. Sc. (Ag) degree programme of RKMVERI FAR on 17 March 2017.

Students Strength

The strength of the College is 243, with 62 first years, 60 second years, 61 third years and 60 fourth year students.

Field Studies

The final year B. Sc. (Ag) students visited Forest College and Research Institute, Mettupalayam on 12.02.2018 to learn about the biofertilizer production technologies. They visited Kalingarayan Ayacut area in Erode on 24.03.2018 in connection with the Experiential Learning Course to collect soil and water samples for analysis.

The III year B. Sc. (Ag) students visited Integrated farming system model at Pannimadai on 04.04.2017 as part of the course 'VU EXP-301 Experiential Learning', and visited the office of the Assistant Director of Agriculture, Periyanaickenpalayam on 19.04.2017, as part of the course 'VU AEX X21 Extension Methods and Audio Visual Aids'. On 16.06.2017, they visited Horticultural Research Station, Government Botanical Garden, Rose Garden and Tea Museum at Udhagamandalam as part of the course 'VU HOR 312 Production Technology of Flower Crops, Medicinal and Aromatic Crops' and the community radio station, Udhagamandalam as part of the course 'VU AEX 301 Extension Methodologies and Transfer of Agricultural Technology'. They attended paddy transplanting at M/s Vivekam Farms, Kalipalayam as part of the course 'VU AGR 301 Crop Production' on 06, 07 and 08.11.2017.

The III year B. Sc. (Ag) students visited Tudiyalur Cooperative Agricultural Services on 24.11.2017 to study about the procedures of fertilizer mixing as part of the course 'VU SAC 301 Soil Fertility, Fertilizers and Manures'. They visited the Tudiyalur Co-operative Agricultural Services Limited at Tudiyalur and Farmers' Market at Ramanathapuram on 12.12.2017 to study about the functions and features of the farmers' cooperative market. This was as part of the course 'VU AEC 301-Agricultural Marketing, Trade and Prices'. Further, they visited Sugarcane Breeding Institute, Coimbatore on 16.12.2017 and got exposure towards micro-propagation, tissue culture and genetic transformation as part of the course 'Plant Biotechnology' and Central Institute for Cotton Research and got

acquainted with the latest trends and technologies in Cotton cultivation as part of the course 'Agronomy of Field crops'. They visited Pazhayapudhur, Pudhupudhur, Thevaiyampalayam, Naickenpalayam and Samichettipalayam villages of Periyanaickenpalayam Block to study about the problems associated with agricultural marketing on 28.11.2017 as part of the course 'VU AEC 302 Agricultural Marketing, Trade and Prices'. In the course 'VU AEX 102 Fundamentals of Agricultural Extension Education' the students visited Naickenpalayam village of Periyanaickenpalayam Block on 24.03.2018 and learnt about the village profile and the socio-economic status of the farmers and also to conduct Participatory Rural Appraisal.

The II year B. Sc. (Ag) students visited the Office of the Assistant Director of Agriculture, Periyanaickenpalayam block on 13.09.2017 to study about the implementation of the Government schemes and agricultural technology dissemination and the B.D.O. office, Periyanaickenpalayam on 04.10.2017 to study about the structure and activities of the Panchayat Union as part of the extension course of 'Dimensions of Agricultural Extension'. As part of the course 'Livestock and Poultry Production Management', they visited Dheeraj Dairy Farms, Periyanaickenpalayam on 13.10.2017 to learn about modern dairy farm technologies and visited the Department of Veterinary and Animal Sciences and Department of Forage Crops at TNAU on 06.11.2017 to study about dairying, sheep and goat rearing, swine management, poultry production and forage crops as part of the course 'VU AMP 201 Livestock and Poultry Production Management'.

The I year B. Sc. (Hons.) Agriculture students visited Forest College and Research Institute at Mettupalayam as part of the course 'VU FOR 111 Agroforestry' and 'VU SER 121 Principles and Practices of Sericulture' on 19.06.2017. They also visited Agro-climatology Centre at Tamil Nadu Agricultural University as part of the course 'VU AGR 102 Fundamentals of Agricultural Meteorology' on 21.06.2017. As part of the course of 'Dimensions of Agricultural Extension', they visited Govanur, Pudhupudhur and Palamalai villages of Periyanaickenpalayam block on 16.02.2018 to learn about the agricultural problems at village level and visited the Office of the Government Department of Agriculture, Periyanaickenpalayam 01.03.2018 to learn about the various agricultural schemes for the farmers as part of the Agricultural Extension Course.

Staff Activities

As per the request of the Deputy Director, District Employment Office, Coimbatore, during the month of May 2017 our teaching faculties were deputed to handle coaching classes for the Diploma in Agriculture candidates who had applied for the post of TNPSC Assistant Agricultural Officer.

Dr. A. Raja Rajan, Dean and Sri B. Muthuraja, Assistant Professor (Ag. Economics) attended the programme 'Goods & Services Tax – Views' on 08.07.2017 at GKD Auditorium.

Dr. A. Kaviyarasu, Asst. Professor (Horticulture) presented a paper 'Study about the performance of Cold Stored Carnation Yield under Polyhouse Condition in Different Varieties, Domingo, Baltico and Bizet' at International conference held at the University of Tenega National, Malaysia from 18.09.2017 to 21.09.2017.

Sri M.L. Devan, Farm Supervisor, RKMVU FAR donated 32 Bio-Technology books for our Library on 19.09.2017.

Dr. S. Ramadoss, Assistant Professor, FAR, delivered a lecture on 'Production technology of pulses' for the farmers of Pongalur Block on 17.11.2017 in a programme organized by the State Agriculture Department under the 'ATMA' Scheme.

Dr. J. Ramesh, Assistant Librarian, FAR, attended 'Library Training Programme' on 18.11.2017 at Sri Ramakrishna Mission Vidyalaya College of Education. He participated in the one day National Seminar on 'Metrics in Research, Publication and Career Development' at College of Education on 25.01.2018.

An abstract entitled 'Molecular breeding of Tomato germplasms through single nucleotide polymorphism' was published in the National Conference (NCVR 2017) on 'New Vistas in Vegetable Research towards Nutritional Security under changing climate Scenario' by our Assistant Professors Dr. S. Suresh, Dr. S. Sureshkumar and Dr. S. Saravanan.

Dr. S. Sureshkumar, Assistant Professor of Agrl. Entomology and 10 final year B. Sc. (Ag) students attended one day 'Bee Keeping Training' conducted by TNAU on 08.01.2018 as part the students experiential learning programme.

Dr. S. Sankaralingam, Administrative Director attended the Target 150 Dairy Symposium entitled 'Feed the Rumen Microbes First' held at ICAR-NIANP auditorium, Bangalore on 09.01.2018.

Sri S. Chandra Prakash, Assistant Professor, Plant Pathology, attended the National Conference on 'Livelihood and Food Security (LFS-2018)' and presented a paper entitled 'Management of Bacterial leaf blight disease of Paddy using Bacteriophages' at Bihar Animal Sciences University, Patna on 27th and 28th January 2018.

All the staff members attended the Library Orientation Programme on MOOC and Swayam conducted by All Vidyalaya Library Committee on 13.02.2018.

Students Activities

The III year B. Sc. (Ag.) students underwent VU-AGR 301 Crop Production course in the current semester. Sowing of sunflower was taken up on 02.06.2017. Revered Swami Tatprabhanandaji Maharaj, Assistant Administrative Head initiated sowing and blessed the occasion. Thiru V. Gopalasamy Naidu, Managing Committee member of IARD participated.

I year B. Sc. (Ag.) students participated in the International Yoga Day celebration of our Vidyalaya on 21.06.2017 and demonstrated the Yoga protocol prescribed by the Department of AYUSH, Government of India.

Selvan K.R. Dhanaseelan and Selvan S. Suganthan of III year B. Sc. (Ag) won respectively the first and second prize in the Gurupuja 2018 English Essay Competition. Selvan K.R. Kannan of I year B. Sc. (Hons.) Agriculture won third prize in Tamil poetry competition.

Selvan M. Ravi Sankar, IV Year B. Sc. (Ag), FAR was blessed with the Best Student Award by Revered Swami Garishthanandaji Maharaj, Secretary, Ramakrishna Mission Vidyalaya in Gurupuja Utsav 2018.

Fifteen of our students participated in the state-level inter-collegiate competitions, 'Agronova', organized by Tamil Nadu Agricultural University and won participation certificates.

Functions, Cultural and Religious Activities

3rd annual day was celebrated on 15th April 2017. Revered Swami Abhiramanandaji Maharaj, Secretary, Ramakrishna Mission Vidyalaya and Administrative Head, RKMVERI, presided over the function. Sri S. Rajendran, Deputy Director of Agriculture, Coimbatore was the chief guest. Dr. Bakshi Ram, Director, Sugarcane Breeding Institute, Coimbatore was the Guest of Honour.

RKMVERI FAR in collaboration with Agricultural Technology Management Agency organized a farmers training programme on the topic 'Quality Seed Production for Seed Farm Growers' on 07.08.2017. Swami Tatprabhanandaji Maharaj, Assistant Administrative Head, blessed the occasion. Sri. L. Perumal, Joint Director of Agriculture, Coimbatore delivered the presidential address. Dr. A. Rajarajan, Dean, delivered special address. Sri K. Sundaravadivelu, Assistant Director of Agriculture, Periyanaickenpalayam, Sri D. Sivakumar, Assistant Director of Seed Certification, Coimbatore and Dr. S. Sureshkumar, Assistant Professor, RKMVU FAR spoke on the occasion.

Our students and staff participated in the 71st Independence Day function held at Maruti College grounds on 15.08.2017. Students participated in the march past. In the celebration at RKMVU FAR, Swami Punyavratanandaji Maharaj, Ramakrishna Mission Vidyalaya, hoisted the National Flag.

The course registration for the newly admitted first year B. Sc. (Hons.) Agriculture students was held on 21.08.2017 for the academic year 2017-18. Parents meeting and orientation programme were conducted. Swami Tatprabhanandaji Maharaj, Asst. Administrative Head, RKMVU FAR, Swami Suryatmanandaji Maharaj, Deputy Warden, RKMVU FAR hostel and Br. Jnaneshachaitanya Maharaj, Deputy Controller of Examination blessed the occasion.

All the students and staff attended the 12th convocation of RKMVU on 09.09.2017 and the function commemorating 'Swami Vivekananda's Chicago Address on 11 September 1893' and other addresses held on 11.09.2017 at Vidyalaya Venkatakrishnan Indoor Stadium. Our staff and students participated in the Kalaimagal Vizha celebration. Students performed 'Ayyanar dance' programme on 22.09.2017.

All the staff and students participated in the 'Kalpatharu day' celebrations held on 01.01.2018 at VHS Buddhar maidan participated in the 'Swami Vivekanandar Jayanthi' celebrations held on 08.01.2018. Our students performed 'Aghori Sivathandavam' dance in the Gurupuja cultural programme. All the staff and students

All the staff and final year students attended the Youth Day rally on 11.01.2018 and carried out the duties allotted to them. The II year and IV year students along with staff members attended the 150th Birth Anniversary Celebrations of Sister Nivedita on 07.02.2018.

NSS Camp

The II Year B. Sc. (Ag) students were on NSS Special Camp for 5 days from 01.05.2017 to 05.05.2017 at Sri Avinashilingam Krishi Vigyan Kendra, Vivekanandapuram. The camp, inaugurated by Swami Tatprabhanandaji Maharaj, our Assistant Administrative Head, had special lectures, practical demonstrations and awareness rallies on varied topics as soil health, soil and water conservation, food preservation, health and hygiene, hazards of plastics and Swachh Bharat. In addition, the students organized a free veterinary camp at Guliyur village on 03.05.2017 in which 260 cattle were administered vaccination and/or deworming drugs. A free eye camp was also organized at Adhimadayanur village on 04.05.2017 in which 97 persons were benefited. Swami Tatprabhanandaji Maharaj, Assistant Administrative Head, RKMVU FAR, delivered the valedictory address on 05.05.2017.

Free Eye Camp

On 08.10.2017, a free eye camp was organized by FAR in collaboration with the Eye Foundation, Coimbatore. 92 villagers were benefitted during the camp. Out of 92, 6 persons were screened for cataract disease and recommended for free treatment. Revered Swami Garisthanandaji Maharaj, Administrative Head, RKMVU FAR, blessed the occasion. Swami Tatprabhanandaji Maharaj, Asst. Administrative Head, RKMVU FAR and Swami Harivratandaji Maharaj, Warden, RKMV CoE Hostel graced the occasion and appreciated the team effort taken by the staff & students and the doctors of the Eye Foundation, Coimbatore.

Study Tour

Second year students were on study tour for 7 days from 05.06.2017 to 11.06.2017 as part of the course 'VU AGR 204 Study Tour'. The students got an exposure to varied agro climatic zones, cropping patterns and the activities of Agricultural Colleges at Madurai, and Killikulam, Agricultural Research Stations at Paramakudi, Ramanathapuram, Aruppukottai, Kovilpatti and Floriculture Research Station at Thovalai. They also visited the Rice Research Stations at Tirupathisaram and Ambasamudram.

The final year B. Sc. (Ag) students were on 2-week long All India Study Tour from 20-11-2017 to 06-12-2017 during which they visited International Crops Research Institute for Semi-Arid Tropics, Hyderabad, Belur Math, Howrah, Ramakrishna Math, Kankurgachi, Cossipore Math, Swamiji's House, Udbodhan and Narendrapur.

Visitors

Dr. S. Ayyappan, NABARD-Chair Professor, ICAR-NDRI SRS, Bengaluru visited FAR on 01.07.2017. Sri S. Dorairaj, Senior Advocate and Prof. Joghee, Joint Director of Collegiate Education (Rtd), Coimbatore visited our Dairy Farm on 08.11.2017. Dr. M. Sivakumar, Professor, Department of Nematology, TNAU, visited our classrooms and laboratories on 16.11.2017.

Common Prayer

Weekly common prayers were held every Tuesday at multipurpose hall of VHS Gurukulam. Monastic members and eminent speakers addressed the students on topics of value education, spirituality, personality development, agricultural technologies, etc. Sri R. Duraibabu, Research scholar in forestry, Forest College and Research Institute, Mettupalayam conducted the coaching class for the II and IV year B. Sc. (Ag.) students with regard to UPSC civil services examinations on 06.02.2018.

RAWE Programme

In connection with the course 'VU AEX 401 Rural Agricultural Work Experience (RAWE)' the final Year B. Sc. (Ag) students stayed in the villages for 90 days to learn about the

cropping pattern, farming system, traditional and new technologies, agricultural marketing and allied farm enterprises. The students were divided in to 10 groups of 6 students each and they were attached with the progressive farmers in the villages in Coimbatore and Erode districts.

An exhibition was arranged by the final year B. Sc. (Ag) students on 17.10.2017 as part of the RAWE programme. The models and exhibits on Integrated Farming System, Composting methods, Organic farming, Biocontrol manures and Eco friendly Agriculture were displayed in the exhibition. Revered Swami Garishthanandaji Maharaj, Administrative Head, RKMVU FAR, Swami Tatprabhanandaji Maharaj, Assistant Administrative Head, RKMVU FAR, blessed the occasion.

Clean Vidyalaya Campaign

As part of Clean Vidyalaya Campaign, our students periodically undertook cleaning activities in and around the campus.

Poultry Unit

Revered Swami Garishthanandaji Maharaj, Administrative Head, RKMVERI FAR, commissioned the Model poultry unit and initiated the sowing of vegetable seeds in the nutritional garden at our Dairy premises on 13.12.2017. Swamis, Brahmacharis, Administrative Director, Dean (Ag) and staff of IARD and RKMVERI FAR attended the function. The poultry unit is being utilized for handling practical classes in the course 'Livestock and Poultry Production Management' of B. Sc. (Ag) students and add-on course of IARD.

Sports

The State level Inter-Agricultural Institutions' Volley ball and Kabbadi tournament for the 4th Swami Vivekananda Trophy was conducted on 9th and 10th March 2018. Revered Swami Shantimayanandaji Maharaj, Secretary, College of Education delivered the Presidential Address and declared open the Meet. Dr. P. Kumaravadivelu, Senior Scientist and Head, Sri Avinashilingam KVK, Vivekanandapuram was the Chief Guest. Volley ball and kabaddi matches were held among 14 participating Institutions including RKMVERI FAR and IARD. The winners were awarded cash prize of Rs. 5,000/- and the runners Rs.3,000/-, along with medals and certificates. Special prizes also were given to four best players. In kabbadi, the winners were SRMV IARD, Coimbatore and runners were Imayam Institute of Agricultural Technology, Thuraiyur, Trichy. In volley ball, the winners were Imayam Institute of Agriculture and Technology, Thuraiyur, Trichy and runners were Vanavarayar Institute of Agriculture, Pollachi. Revered Swami Garishthanandaji Maharaj, Administrative Head, RKMVERI FAR, presided over the valedictory function and gave away the trophy and prizes to the winners. Dr. S. Mohan, Special Officer, Publications and Public Relations, TNAU, Coimbatore delivered the Chief

Guest's address. Dr. S. Alagesan, HoD, RKMVERI GAPEY and Dr. Ch. V. S. T. Saikumar, Principal, Maruti College of Physical Education were the Guests of Honour.

Miscellaneous

Revered Swami Tatprabhanandaji Maharaj, Asst. Administrative Head, RKMVUFAR initiated the sowing programme for the establishment of crop cafeteria in our Swami Thottam Agricultural Farm on 20.09.2017 and blessed the occasion. Revered Swamiji also initiated the sowing of pulses in our Agricultural Farm to promote skill learning of the students about Agro Forestry System as part of the course 'APW 401 Project Work'.

Srimat Swami Abhiramanandaji Maharaj, Assistant General Secretary, Ramakrishna Math and Ramakrishna Mission, Kolkata inaugurated the official website of FAR, online e-Journal 'VIJAS' as well as the hard copy of the journal on 06.02.2018 and also released the books entitled 'Nutritional and Physiological Disorders in Horticultural Crops' and 'Nutrient Deficiencies and Toxicities in Crop Plants : Diagnosis and Correction' authored by Dr. G. Pathmanabhan, Professor of Crop Physiology and a team of experts of FAR.

A Fertilizer Orientation Programme was organized for the final year B. Sc. (Ag) students on 09.03.2018 in collaboration with M/s YARA Fertilizers India Private Ltd. Swami Tatprabhanandaji Maharaj, Assistant Administrative Head, delivered the Presidential Address.

DEPARTMENT OF SPORTS SCIENCE AND YOGA, **BELUR CAMPUS**

1. Academic programmes conducted by the department:

Name of course	Students admitted
Ph. D. in Sport Sciences	2
Integrated Ph. D. in Sport Sciences	7
PG Diploma in Yoga (Regular, 2 semesters)	21
PG Diploma in Yoga (Week-end, 2 years)	20

2. Research

The Research proposal “EVALUATION OF POSTURAL SWAY IN RELATION TO SPORTS PERFORMANCE IN SHOOTING AND ARCHERY” by A. Goswami and S. Ghosh was submitted to Ministry of Youth Affairs and Sports, Government of India.

In addition, one internal research project on “Effect of meditation on heart rate variability” is being carried out by A. Goswami, AK Ghosh and S. Ghosh.

3. Conferences/Seminar/Meetings

i) A seminar on “Recent Trends: Research in Sports Science and Yoga” was organised during 9-10 March, 2018. The seminar had delivered two workshop sessions on ‘Biomechanics in Sports’ and ‘Science of Yoga’. Prof. Dipankar Home, Bose Institute, Kolkata, delivered the inaugural address. Lectures were delivered by Dr. A.K. Joy Singh (Dean, Regional Institute of Medical Sciences, Imphal), Dr. O.S.K.S. Sastri (Central University of HP, Dharamshala, HP) and Dr. G.L. Khanna (Indian Institute of Sports Science and Research, Ministry of Sports, New Delhi), Dr. P.K. Nag (RKMVERI), Dr. S.R. Dasgupta, Dr. Soumendra Saha and Dr. Rupayan Bhattacharya in addition to the faculty members of the department. The workshops were conducted by

a) Biomechanics – Dr. A. Goswami, Dr. S. Ghosh, Dr. R. Bhattacharya and Dr. O.S.K.S. Sastri.

b) Science of Yoga – Sw. Kaleshanda, Dr. Rajeshwar Mukherjee and Mr. Prasanta Samanta.

A special lecture on Special Olympics was delivered by Mr. Bibek Bardhan, Vice Chairperson, Special Olympic Bharat, India.

A number of research papers were also presented by the participants and the students of the department.

ii) Dr. Rajeshwar Mukherjee has presented a research paper, on invitation, titled ' World as the Animation of Ananda: A Scientific Exploration' in the National Work shop on "Mind, Consciousness and Beyond: Building on Vedantic Metaphysics" organised by CSIR-NISTADS, New Delhi held on March 6, 2018.

iii) Mr. Triloki Prasad (Ph.D. Student) has presented a paper entitled "Static Balance activity in Blind persons" in the National Conference on "Physical Education, Sports Science and Life Style" organized by the Department of Physical Education, Savitribai Phule Pune University, Pune, during 15-17 February 2018.

iv) A paper "Veering pattern in Human walking in Sighted and blindfolded conditions" submitted by Mr. Triloki Prasad (Ph.D. Student) has been accepted for presentation in ICAPESSES Conference to be held in Bangkok, 2018.

4. Yoga Day and Yoga Camp

i) International Yoga Day was celebrated on 21 June 2017. About 200 participants had taken part in this programme.

ii) Free Yoga Camp was also organised during 8-10 September 2017 at 16 different locations in Kolkata and neighbouring districts.

iii) Students of PG Diploma in Yoga has participated in Swachh Bharat Abhiyan (Clean India) Campaign on 2 October 2017 through cleaning the university campus and surrounding neighbourhood.

5. Other information

i) Mr. Triloki Prasad (Ph.D. Student) has attended "Special Olympics Leadership Programme, Level I" conducted by Special Olympics Bharat, during 17-19 January, 2018, held in Kolkata.

ii) Mr. Triloki Prasad (Ph.D. Student) had acted as Official during the Special Olympics District game under Khelo India Programme, held at the Stadium Complex of Ramakrishna Mission Ashram, Narendrapur, during 27-28 February 2018.

6. Publications

i) Khanna, G.L. and Goswami, A. (2018) Physiology of Exercise. Friends Publishers, New Delhi. (This book will be published soon)

- ii) Daniel Tarmast, Asok Kumar Ghosh, Chee Keong Chen (2017) Metabolic Responses to Sago and Soy Supplementations during Endurance Cycling Performance in the Heat. *International Journal of Applied Exercise Physiology*, 6(3), 1-7.
- iii) S. Gupta, A .Goswami (2017) Heart rate and lactate response of junior handball players (Under 18) during competitive match play. *International Journal of Applied Exercise Physiology* 6 (2), 53- 59.
- iv) S Gupta, A Goswami (2017) Effects of systems of play on the heart rate response and the contribution of aerobic-anaerobic systems during selection football match play. *International Journal of Perceptions in Public Health* 1 (3), 183-188.
- v) Dr. Rajeshwar Mukherjee has presented a research paper, on invitation, titled 'World as the Animation of Ananda: A Scientific Exploration' in the National Workshop on "Mind, Consciousness and Beyond: Building on Vedantic Metaphysics" organised by CSIR-NISTADS, New Delhi held on March 6, 2018. (To be published in the Proceedings of the Conference by CSIR-NISTADS)

SASYA SHYAMALA KRISHI VIGYAN KENDRA



SASYA SHYAMALA KRISHI VIGYAN KENDRA
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Report for the period from 1 April 2017 to 31 March 2018

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, four km. away from Sonarpur Railway Station by the side of the Sonarpur – Ghatakpukur Road.

It came into existence through promulgation of ICAR notification (vide: F.No.6-1/2010 AE-1. dtd: 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
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 ATMA & 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	Organizing sponsored training programme under Tribal Sub Plan (TSP)
ATMA	Project implementation, Programme implementation in the district
Central Institute of Freshwater Aquaculture (CIFA), Bhubaneshwar	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

On-Farm Trials (OFTs) conducted during 2017-18:

1. Effect of macronutrient management on growth, yield and economics of hybrid **Rabi** maize
2. Effect of Foliar spray of boron on growth, yield and economics of hybrid sunflower during Rabi Season
3. Effect of different types of mulching material in reducing the cost of irrigation and weed management in winter vegetable cultivation (Tomato) during Rabi Season
4. Assessment of yield performance of different varieties of Turmeric
5. Assessment of different varieties of Green gram in Rabi season

6. Assessment of different varieties of Lentil in Rabi season
7. Increasing productivity potentiality of mustard using bee hive of *Apis mellifera* and *A. cerana indica*
8. Assessment of organic amendments in pest management of black gram
9. Comparative analysis of IPM module and new generation insecticide in managing *Lepidopteran* insect pest of green gram
10. Evaluation of FEAST (Feed Assessment Tool - A diagnostic computer program) software program to develop area specific strategy for improving feed supply to homestead dairy cows
11. Assessment of performance of broiler chicks for first seven days in different stocking densities in South 24 Parganas district
12. Small scale home based feed formulation for the successful rearing of ornamental fish culture in South 24 Parganas district
13. Assessment of Periphyton-based aquaculture production in composite fish culture

Yearly Achievement of different activities:

❖ Training Programme: 2017-18

Beneficiaries	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Practicing Farmers	87	837	345	1182	851	529	1380	116	157	273	1804	1031	2835
Rural Youth	32	281	143	424	233	211	444	69	47	116	583	401	984
Extension Functionary	11	131	80	211	56	68	124	18	30	48	210	173	383
Total:	130	1249	568	1817	1140	808	1948	203	234	437	2597	1605	4202

❖ Different Extension activities during 2017-18:

Item	No of programmes	No of participants
Extension Activities	1195	30641 farmers
Frontline Demonstration (FLD)	32	295 farmers
On -Farm Trial (OFT)	13 nos.	123 farmers

❖ Literature Developed/Published:

List of Publications

Items	2017-18
Research papers	23 nos.
Popular Articles	7 nos.
Leaflets	3 nos.

❖ **SMS PORTAL:**

No. of messages	No. of farmers covered	Types of messages (No.)					
		Crop	Livestock	Weather	Marketing	Awareness	Other
346	21,45,662	204	18	16	15	30	45

❖ **Mobilization of fund from other sources for implementing different program :2017-18**

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Group mobilization of shg on kitchen gardening, value addition and mushroom enterprise	10000.00	Dept. of Ag., Govt. of WB
2.	Refresher training for corporate personnel	68600.00	Coromandel Intl. Ltd.
3	Vermicomposting for Enhancing Crop Production and Income Generating Enterprise for Rural Youths	45000.00	NABARD
4	Improved Piggery Management	48000.00	NABARD
5	Refresher course training for ATMA functionaries of South 24 Parganas	115000.00	ATMA, Dept. of Ag., 24 Pgs (S), Govt. of WB
6	Integrated Farming Practices for the farmers of Bali Island, Gosaba	49500.00	NBSS&LUP, Kolkata region
Total		336100.00	

VIVEKDISHA –

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

Report for the period from 1 April 2017 to 31 March 2018

RKMVERI is conducting classes using its ICT based network in 20 Schools under West Bengal Board of Secondary Education, 14 schools under West Bengal Council of Higher Secondary Education, and 1 school under CBSE.

The regular programmes for the 21 remote centres are monitored from the **expert centre at Belur Math.**

Ongoing Activities:

(1) Online classes:

Physics, Chemistry, Mathematics, Biology, Value Education, and Communicative English for students of Classes six to twelve level 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. We believe that all learners can grow well in digital classrooms that are engaging, learning-focussed and inclusive. The medium of instruction is either Bangla or English. Chemistry and Economics classes for Under-graduate students conducted from USA and UK as per the requirements of the students. Currently the number of student-beneficiaries who are receiving the benefit of VIVEKDISHA online classes has exceeded **13000**, and among them 4937 are rural boys, 1375 are rural girls, 5773 are urban boys and 1544 are urban girls.

(2) Vivekdisha Website:

This site has some special features like:

1. Bilingual- The site is in English and in Bangla.
2. Online Examinations- The site provides opportunities for students to take practice tests as well as unit tests in different subjects at various levels. The questions can be set in English and in any Indian languages. Students of schools, colleges and universities can take advantage of this unique feature.
3. Teaching videos- Some edited videos of our online classes are available here.
4. Cross references of different books related to Sri Ramakrishna and Swamiji have been added.
5. 360° Studio - Provides a panoramic view of a place.

(3) Content Generation for School and college education:

The contents of the multimedia presentations of different Science subjects were developed in local language Bangla or in English in order to fulfil local or national level need. The content of the lessons was developed based on the syllabi of West Bengal Boards or universities or All-India level Entrance exams. The main focus point of the

content generation is concept building and integrating different subjects or topics as per the context of the lessons.

(4) Youth Interaction across various regions:

Students in these online classes belonging to different regions of West Bengal or different States of our country get the feeling of brotherhood and unity through interactions with a large community of eager students all studying together under one particular teacher and sharing the same study material. The common focus of these classes being science or humanities education blended with value education.

(5) Spiritual Heritage Programme for International Audiences:

Vivekdisha is trying to cater the need of the devotees residing in faraway places by log in to the online classes from their homes. At present devotees of Sri Ramakrishna are joining the bilingual class on “Sri Sri Ramakrishna Kathamrita” (The Gospel of Sri Ramakrishna) and “Srimad Bhagavad-Gita” from different countries like United Arab Emirates (Dubai, Abu Dhabi and Sharjah), United States of America (Cleveland, San Diego, Washington and Fargo), Canada and Germany.

(6) Integrated Science Text Books with current research findings:

We are keenly scrutinizing science books that have been published at the secondary and higher secondary levels, and trying to eliminate and correct certain fundamental errors that have crept into them and unfortunately perpetuated for decades on end. VIVEKDISHA has published **three books** on Science in Bangla of International standard to build students’ science concepts with an integrated approach to various subjects the students learn at the secondary level.

(7) Value Education:

Values imbibed in one’s own life make his/her life valuable. To inculcate the attitude of practising higher ideals in life and to touch the young minds as early as possible, we have started this value education programme. Multimedia presentations were shown on Ramakrishna-Vivekananda teachings for students of various age groups, along with a lively interactive session.

(8) Creation of Book Banks in different Schools:

VIVEKDISHA has pioneered groundbreaking channels to provide quality books and educational resources for free to schools serving children in need.

(9) Online Workshops and Teachers Workshops at Schools:

Through conducting workshops VIVEKDISHA is assisting teachers in the process of building capacity to bring a positive change in teaching-learning methods and to focus more on concept building rather than rote memory.

(10) Creation of Computer Lab, Online Exam Centres:

In Nawabganj, one of our online schools, we have set up a Computer Lab cum Online Exam Centre. In Apeejay School, Park Street, Kolkata, online exam centre has started functioning.

(11) Publication of a Book on Sri Ramakrishna:

This year a book on Sri Ramakrishna's life and teachings with many relevant pictures was published for beginners. The book has covered most of the important events in his life with little analytical interpretations to bring the attention of readers about the relevance of those incidents in the spiritual life of an aspirant. The book also contains the ideas developed from modern research on his life and teachings.

(12) Distress Relief Works:

We have received different types of garment from a reputed company for distribution mainly for students. So far we have distributed shirts, trousers, sweaters, sweatshirts and jackets to 548 male beneficiaries and tops, trousers, sweaters, jackets and dresses to 679 female beneficiaries belonging to Borai, Balarampur, Begampur and Masat areas of West Bengal.

(13) Vivekdisha Studio:

Recordings are done on special occasions in the Vivekdisha Studio. In recent times Doordarshan Kendra Kolkata recorded the narration of Durga Puja performed at Belur Math. Some spiritual talks of senior swamis of the order have also been recorded in this studio.

(14) Research in the field of Education and Communications:

We are constantly gathering knowledge from our online classes and doing research about the methodology of teachings, pattern of examinations, pedagogy, and use of technology for better communications. Our two journal papers regarding telecommunications in remote areas have already been published in IEEE. The recorded videos of our online classes are being uploaded in Vivekdisha website from time to time for the benefit of the students.

LIST OF BOOKS PUBLISHED

as on 31 March 2018

Sl. No.	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	Vivekanandakāvyaṃṛtam	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 dṛṣṭite	Bengali	July, 2013
11	Vivekdiśā Vijñānkathā	Bengali	July, 2014
12	Yoga Parichaya	Bengali	July, 2014
13	Itibācak abhibhāvakatva o bhālōbese śīsuder śṛṅkhalā pratiṣṭhā = Positive parenting and disciplining children with love	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	Bengali	July, 2015
23	Srimat Swami Vivekananda Caritam	Sanskrit	July, 2015
24	Yogabhyas Prabesika	Bengali	July, 2015
25	For Enquirers About Ramakrishna Math And 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	Arthasamgrahah	Bengali	July, 2016
29	Scriptural Foundations of Ramakrishna and Vivekananda	English	February, 2017
30	Vivekdisha Jiban-Vijnan-Kotha	Bengali	March, 2017
31	Prachin Bharoter Chotoder Golpo	Bengali	August, 2017
32	Paniniyatantre Asiddhatvatidesau	Sanskrit	January, 2018
33	Sri Ramakrishna Jivan Sudha	Bengali	February, 2018