

# APPENDIX 1

## Details of the University activities since inception (2005-10) as submitted to the Review Committee of the Ministry of Human Resource Development in August 2009

### 1.1. Name of the Deemed-to-be-University:

Ramakrishna Mission Vivekananda Educational and Research Institute  
(Declared by Government of India as Deemed-to-be-University under Section 3 of University Grants Commission Act, 1956)  
PO Belur Math, Dist Howrah  
West Bengal  
Pin Code: 711202  
(Phone: 033-26549999; fax: 033-26544640;  
Email: rkmveri@gmail.com; vivekananda.university@gmail.com)

### 1.2. No. and Date of Notification as Deemed University:

Government of India Notification No.F.9-54/2004-U.3 dated 5 January 2005 issued by the Joint Secretary to the Government of India, Ministry of Human Resource Development, Department of Secondary and Higher Education.

### 1.3. Details of the Governance Structure of the Deemed University

The Governance structure is as follows:

The sponsoring society of the deemed university is Ramakrishna Mission, with headquarters at Belur Math in the district of Howrah in West Bengal.

The Governing Body of the institution is the 'Board of Management' formed as stipulated by UGC guidelines for deemed universities.

The Chancellor of the deemed university (equivalent to the President of the Institute as specified in the UGC guidelines) is the General Secretary of Ramakrishna Mission (sponsoring society), ex-officio, and he nominates an assistant to help him as Pro-Chancellor who is an Assistant General Secretary of Ramakrishna Mission, ex-officio, by a resolution of the Governing Body of Ramakrishna Mission. **Presently, the Chancellor is Swami Prabhanandaji, the General Secretary of the worldwide organization, Ramakrishna Mission, with headquarters at Belur Math in West Bengal**, aged 77, with academic qualification M.Sc. Psychology from Calcutta University (stood 1<sup>st</sup> in Calcutta University with 1<sup>st</sup> class—medal winner), and vast educational experience: was the Head of the reputed schools of Ramakrishna Mission at Narendrapur and Purulia, was the Principal of the first college of Ramakrishna Mission, namely, Ramakrishna Mission Vidyamandira at Belur Math.

The Vice Chancellor is appointed according to UGC guidelines through a 'search committee' comprising three members: (i) a nominee of MHRD, Government of India, (ii) a nominee of UGC, and (iii) a nominee of

the President of the Institute (Chancellor of the deemed university). **Presently, the Vice Chancellor is Swami Atmapriyananda, who holds a PhD degree in Theoretical Physics from the University of Madras (area of specialization: theoretical elementary particle physics; title of the thesis: Studies on the Interactions of Higher Spin Particles; Guide/Supervisor: Professor PM Mathews, the then Head, Department of Theoretical Physics, University of Madras), with a Post-MSc Diploma in Theoretical Physics and an MSc degree in Physics (specialization: Nuclear Physics) from Presidency College, University of Madras.** Swami Atmapriyananda was teaching Physics at Loyola College, Madras, for three years before becoming a monk of Ramakrishna Mission. After becoming a monk, he taught Physics for 27 years at Ramakrishna Mission Vidyamandira, a reputed residential college near Belur Math. He was the Vice-Principal of this college for 6 years and its Principal for 13 years. When he was Principal, NAAC assessed this college and accredited it with an award of A+ grade with an institutional score of 93.25%.

The various 'off-campus' centres housing specialized Faculties are located in the branch-centres of Ramakrishna Mission (all of them under the overall governance and regulation of the Ramakrishna Mission Headquarters at Belur Math), and these Faculty Centres are under the administrative control of the respective monastic heads who are ex-officio members of the Board of Management of the University.

The Board of Management is constituted according to UGC guidelines. **Presently, the UGC nominee is Professor Arabinda Kumar Das, Vice Chancellor of Kalyani University, West Bengal, and the MHRD nominee is Professor Damodar Acharya, Director, Indian Institute of Technology, Kharagpur, West Bengal.** The Deans of the various Faculties at the specialized Faculty Centres hold doctoral degrees (PhD) in their respective subjects.

**Presently, the Registrar is Swami Sarvottamananda, who holds a PhD degree in Computer Science & Engineering from the Indian Institute of Technology, Kanpur, having finished his BTech from IIT Kanpur** (with CPI 10 out of 10) and allowed to go in directly for PhD. He was recently given the 'Best Alumnus' award by the IIT Kanpur Alumni Association.

The various Boards are constituted and the faculty members appointed according to UGC guidelines for deemed universities.

Brahmachari Tathagata Chaitanya (Shivam) is the Finance Officer of the University. He holds the PA *Contador Público* (Public Accountant) degree from the *Universidad del Museo Social Argentino* (University of Museo Social, Argentina, South America). This degree is equivalent to the CPA (Certified Public Accountant) in the USA or Chartered Accountants in the British Commonwealth countries. He also holds degree of *Licenciado en Administración* which is equivalent in USA to the degree in 'Specialist in Business Administration' and in India equivalent to the M.B.A. degree.

**Note:** UGC has recently issued a Gazetted Notification of the Regulations for Deemed Universities on 21 May 2010. The above governance framework, particularly in respect of the Board of Management, is being restructured accordingly.

### 1.4. Courses and Students' Intake:

Student Intake and Actual Enrolment for the last 5 years:

#### 1.4.1. Belur Main Campus:

##### 1.4.11. School of Indian Heritage:

Year	Course	Intake capacity (Max)	Enrolled
2006-07	Diploma Course on 'Meditation and Spiritual Life'	120	116
2007-2008	Integrated M.A. course in Sanskrit	15	6
	M.Phil./Ph.D. Sanskrit	10	6
	M.Phil./Ph.D. Bengali	10	5
	Ph.D. in Translation Studies (*)	1	1
	Diploma on 'Indian Spiritual Heritage'	50	44
2008-2009	Integrated M.A. course in Sanskrit	15	4
	Diploma course on 'Bhagavad-Gita—Traditional and Modern Interpretations'	100	86
	Diploma course on 'Indian Spiritual Heritage'	50	36
	Certificate course on 'Studies on Swami Vivekananda'	50	50
2009-2010	Integrated M.A. course in Sanskrit	15	3
	Diploma course on 'Bhagavad-Gita—Traditional and Modern Interpretations'	100	28
	Diploma course on 'Indian Spiritual Heritage'	50	16
	Certificate course on 'Studies on Swami Vivekananda'	50	47

(\*) 'Translation Studies' is an emerging interdisciplinary area and we are beginning research in this field with the help of a professor of English in Ramakrishna Mission Vidyamandira, Belur Math with one scholar, Medha Bhattacharya, working on Rabindranath Tagore's *Shantiniketan* essays.

#### 1.4.12. School of Mathematical Sciences:

Year	Course	Intake capacity (Max)	Enrolled
2008-2009	M.Sc. Computer Science	15	15
	M.Sc. Mathematics	15	6
	Ph.D. Mathematics	2	1
	M.Phil. Physics	10	4

2009-2010	M.Sc. Computer Science	15	7
	M.Sc. Mathematics	15	8
	Ph.D. Mathematics	4	4
	M.Phil. Physics	10	4

**1.4.2. Narendrapur Faculty Centre:**

**1.4.2.1. M.Sc. in Integrated Rural Development & Management**

Year	Intake capacity	Enrolled
2006-2008	20	14
2007-2009	20	12
2008-2010	20	19
2009-2011	20	13

**1.4.2.2. P.G. Diploma in Agro-based Biotechnology**

Year	Intake capacity	Enrolled
2006-2007	10	10
2007-2008	10	09
2008-2009	10	10
2009-2010	10	08

**1.4.3. Ranchi Faculty Centre:**

**1.4.31. Integrated M.Sc. in 'Integrated Rural & Tribal Development and Management'**

Year	Intake capacity (Max)	Enrolled
2006-2007	20	4
2007-2008	20	6
2008-2009	20	12
2009-2010	20	7

**1.4.32. P.G. Diploma in Agro-based Biotechnology**

Year	Intake	Enrolled
2006-2007	10	6
2007-2008	10	8

#### 1.4.4. Coimbatore Faculty Centre:

##### 1.4.4.1. Faculty of 'Disability Management and Special Education'

Sl.No.	Courses in Special Education	Enrolment				
		2005-06	2006-07	2007-08	2008-09	2009-10
1	PhD	15	15	09	05	07
2	MEd	14	13	22	27	46
3	BEd	45	47	42	25	47
4	DEd	14	13	11	11	05

##### 1.4.5. Faculty of 'General & Adapted Physical Education and Yoga'

Sl.No.	Course	Enrolment		
		2007-08	2008-09	2009-10
1	PhD	03	18	-
2	MPhil	-	03	09
3	MPEd	19	30	08
4	MPEd (In service teachers)	-	-	60
5	BPEd	27	26	26
6	DPEd	43	23	27
	Int. BPEd	-	-	11

#### 1.5. Faculty:

No. of full-time faculty with qualifications and pay scale for the last 5 years or since the conferment of the deemed university status:

##### 1.5.1. Belur Main Campus

### 1.5.11. School of Indian Heritage

#### 1.5.12. Department of Sanskrit:

4 full-time faculty members—all 4 of them are M.A. in Sanskrit and 2 of them with M.Phil. as additional qualification. The 2 teachers with M.A., M.Phil. have registered for their Ph.D. and hope to successfully complete the Ph.D. programme in two years' time. Since the teaching in the Sanskrit Department is done completely in Sanskrit medium, we need teachers who are fluent in spoken Sanskrit and proficient in written Sanskrit. While it is proving increasingly difficult to get such teachers, the 4 full-time faculty members presently teaching in the Sanskrit Department are quite good in both spoken and written Sanskrit.

Names of the teachers: Dilip Panda, Rakesh Das, Manjunath Jattayya Gunaga and T.N. Narayanan. (Note: Dilip Panda and T.N. Narayanan have since left, in early 2010, and we have recruited another young scholar Sri Venkataramana Bhatt with specialization in Sanskrit kavya).

#### Chart giving the details of the teaching staff in Sanskrit Department:

Sl.No.	Name of teacher	Qualifications	Remarks
1	Dilip Panda, Lecturer	M.A., M.Phil.	Resigned and left in February 2010
2	Rakesh Das, Lecturer	M.A., M.Phil.	Specialization: Panini Vyakarana (grammar)
3	T.N. Narayanan, Lecturer	M.A.	Resigned and left in January 2010
4	Manjunath J. Gunaga, Lecturer	M.A.	Specialization: Vedanta, with special reference to Advaita Vedanta
5	Venkataramana Bhatt	M.A., M.Phil.	Specialization: Kavya (literature), with special reference to Vedanta philosophy in Kavya

Swami Vedatattwananda, an engineering graduate from the Government College of Engineering, University of Pune, is the monastic Coordinator of the Sanskrit courses, having acquired knowledge and expertise by dint of hard self-effort and guidance from scholars.

Swami Durgananda, B.Tech. and M.Tech. in Mechanical Engineering from Indian Institute of Technology (IIT), Bombay and Ph.D. in Mechanical Engineering from the Iowa State University, is our new addition to our monastic team and will get involved in the School of Indian Heritage, particularly the area of Ancient Scientific Heritage, besides helping the University in the construction of the buildings and the necessary infrastructure for the School of Humanities and Social Sciences.

#### 1.5.13. Department of Mathematics:

3 full-time faculty members—all of them Readers having Ph.D. in Mathematics. Apart from these full-time fac-

ulty members, we have one permanent visiting faculty member who has recently retired from Indian Statistical Institute, Kolkata, and one part-time visiting faculty with M.Stat. from ISI Calcutta and Ph.D. from Stanford University. In addition, there are 5 Ph.D. scholars some of whom act as Teaching Assistants for some courses depending upon necessity.

Names of the teachers: Dr Kingshook Biswas, Ph.D. from the University of California, Los Angeles, USA; Dr Indranath Sengupta, Ph.D. from Indian Institute of Science, Bangalore; Mahan Mj, a monk of Ramakrishna Order presently serving in the University, is a Ph.D. from the University of California, Berkeley, USA. The permanent guest faculty is Dr Ashoke Kumar Roy, Ph.D. from Massachusetts Institute of Technology (MIT), USA. The part-time faculty is Dr Arnab Chakrabarty, M.Stat. from Indian Statistical Institute, Calcutta and Ph.D. from Stanford University, USA.

Names of Ph.D. scholars: Pranab Sardar, Sabyasachi Mukherjee, Bodhisattwa Basu, Shubhabrata Das, Bedanta Bose.

### Chart giving the details of the teaching staff in Mathematics Department:

Sl.No.	Name of teacher	Qualifications
1	Indra Nath Sengupta, Reader/ Associate Professor	M.Sc., Ph.D. (from IISc, Bangalore)
2	Kingshook Biswas, Reader	M.Stat., Ph.D. (from ISI Calcutta and Stanford University, USA)
3	Mahan Mj (Swami Vidyanathananda), Associate Professor	M.Sc., Ph.D.
4	Ashoke Roy	M.Sc., Ph.D. (from MIT, USA)
5	Arnab Chakrabarty	M.Stat., Ph.D. (from ISI Calcutta and Stanford University, USA)

### 1.5.14. Department of Computer Science:

4 full-time faculty members, of whom one left recently. 2 of these faculty are monks of Ramakrishna Order—one is a Ph.D. in Computer Science & Engineering from the Indian Institute of Technology (IIT), Kanpur, while the other completed his integrated M.E. course in Computer Science from the Indian Institute of Science (IISc), Bangalore. Of the other two, one is M.Sc. in Physics from Indian Institute of Technology, Chennai, followed by M.Tech. in Computer Science from the central university of Hyderabad. The other (who left recently) has a B.Tech. from IIT, Delhi and Ph.D. from Stanford University.

Names of the teachers: Swami Sarvottamananda, Ph.D. from IIT, Kanpur; Brahmachari Swathyprabhu, M.E. from IISc, Bangalore, Nandakumar, M.Sc., M.Tech. from IIT, Chennai and Hyderabad University respectively.

### Chart giving the details of the teaching staff in Computer Science Department:

Sl.No.	Name of teacher	Qualifications
1	Swami Sarvottamananda	M.Tech., Ph.D. from IIT Kanpur
2	Brahmachari Ajeya Chaitanya	M.E. (Integrated) from IISc, Bangalore
3	Sri Nandakumar	M.Sc., M.Tech. (from IIT Madras and Univ. of Hyderabad)
4	Brahmachari Arun (presently on study leave—likely to rejoin in April 2010)	B.Tech., M.S. (from IIT Bombay, Pennsylvania State Univ, USA)

### 1.5.15. Department of Physics:

2 + 4 = 5 full-time faculty members, 2 of them retired professors from Kalyani University, West Bengal, 1 retired professor from Indian Association for the Cultivation of Science, Kolkata, and 1 retired professor from Saha Institute of Nuclear Physics, Kolkata. All of them have Ph.D. and are still active researchers and teachers. The other two faculty members also possess Ph.D. degree, one from Saha Institute of Nuclear Physics (SINP), Kolkata and the other from Tata Institute of Fundamental Research (TIFR), Mumbai.

Names of the teachers: Dr Abhijit Bandyopadhyay, Ph.D. from SINP, Kolkata; Dr Ashik Iqubal, Ph.D. from TIFR, Mumbai; Prof Prashanta Kumar Mukherjee, Ph.D. from SINP, Kolkata; Prof Siddhartha Roy, Ph.D. from McGill University, Montreal, Canada; Prof Amulya Chandra Roy, Ph.D. from Kalyani University, West Bengal; Prof Harshit Majumdar, Ph.D. from the University of Calcutta.

### Chart giving the details of the teaching staff in Physics Department:

Sl.No.	Name of teacher	Qualifications	Remarks
1	Abhijit Bandyopadhyay	M.Sc., Ph.D. (from Saha Institute of Nuclear Physics, Kolkata)	Specialization: High energy particle physics (phenomenology)
2	Ashik Iqubal	M.Sc., Ph.D. from TIRF, Mumbai	Left in November 2009
3	Prasanta Kumar Mukherjee	M.Sc., Ph.D. (from Saha Institute of Nuclear Physics)	Full-time visiting Faculty—serving honorary
4	Siddhartha Roy	M.Sc., Ph.D. (from McGill Univ., Canada)	Full-time visiting Faculty—serving honorary
5	Amulya Chandra Roy	M.Sc., Ph.D. (from Kalyani University, West Bengal, USA)	Full-time visiting Faculty—serving honorary
6	Harshit Majumdar	M.Sc., Ph.D. (from Saha Institute of Nuclear Physics)	Full-time visiting Faculty—serving honorary

### 1.5.16. Faculty of Indian Heritage:



The teachers in the Faculty are all monks presently serving at the University, and they teach diploma courses in (i) the fundamentals of Indian spiritual heritage, (ii) ancient Indian scriptural texts like the Bhagavad-Gita, Upanishads etc, and (iii) the modern texts like Swami Vivekananda's works etc. Needless to say, all these monks are serving honorary.

### 1.5.2. Narendrapur Faculty Centre

3 + 2 full-time faculty members, 2 of them M.Sc., Ph.D. and 1 M.Sc., MSW, 3 monks of Ramakrishna Order having M.Sc. (Agriculture), M.Sc. (Agri-bio-technology), and M.Sc. (Agriculture) with Ph.D. in Environmental Science degrees. Apart from these, there are a large number of guest lecturers drawn from various institutes/universities.

Names of the full-time teachers: Dr Rupak Goswami, Dr Md.Nasim Ali, Sri Amitava Dutta. All these teachers have NET qualification.

Sl. No.	Name of Faculty	Qualification
1	Dr Rupak Goswami	M.Sc., PhD.
2	Dr Md Nasim Ali	M.Sc., Ph.D.
3	Sri Amitava Dutta	M.Sc., MSW
4	Swami Bhaveshananda	M.Sc. (Agri)
5	Brahmachari Nirmoha Chaitanya	M.Sc. (Agri-Biotechnology)
6	Brahmachari Yatiraja Chaitanya	M.Sc. (Agri), Ph.D. (Env.Sc.)

### 1.5.3. Ranchi Faculty Centre

5 + 2 full-time faculty members (of which one left recently), 3 with M.Sc. and 2 with M.Sc., Ph.D., the two monks having M.Sc. degrees.

Sl.No.	Name of Faculty	Qualification	Remarks
1	Sri Arunava Sengupta	M.Sc.	
2	Sri Pulak Roy	M.Sc, M.Tech	Left recently
3	Avijit Kumar Dutta	M.Sc., Ph.D	Joined recently--Horticulture
	Anirban Maji	M.Sc., Ph.D.	Plant Breeding
4	Sri Dipankar Chatterjee	M.Sc.	Social Science--Anthropology
5	Sri Supratim Patra	M.Sc	Bio-technology
6	Swami Bhaveshananda	M.Sc (Agriculture)	Common faculty for Ranchi and Narendrapur

7	Brahmachari Nirmoha Chaitanya	M.Sc. (Agri-Biotechnology)	--do--
8	Brahmachari Yatiraja Chaitanya	M.Sc. (Agriculture), Ph.D. (Environmental Science)	--do--

#### 1.5.4. Coimbatore Faculty Centre

##### 1.5.41. Faculty of 'Disability Management and Special Education'

No. of full-time faculty with qualifications and pay scale for the last 5 years of since conferment of deemed university status & RCI Norms.

#### 2005-06

Sl	Name of the staff	Designation	Qualification	
			Qualification	RCI Qualification
1	Sri G.R. Ramesh	Lecturer	M.Sc.	M.Ed(Sp.I Edn)
2	Sri S. Parthasarathy	Lecturer	M.A.	M.Ed(Spl.Edn)
3	Kum.M. Annakodi	Lecturer	M.Sc.	M.Ed(Spl.Edn)
4	Smt. R.Sathyapriya	Lecturer	M.Sc.	M.Ed(Spl.Edn)
5	Smt. M. Santhi	Lecturer	M.Sc.	M.Ed(Spl.Edn)

#### 2006-07

Sl	Name of the staff	Designation	Qualification	
			Qualification	RCI Qualification
1	Sri G.R. Ramesh	Lecturer	M.Sc	M.Ed(Sp.I Edn)
2	SriS.Parthasarathy	Lecturer	M.A.	M.Ed(Spl.Edn)
3	Kum.M.Annakodi	Lecturer	M.Sc.	M.Ed(Spl.Edn)
4	Smt. R.Sathyapriya	Lecturer	M.Sc.	M.Ed(Spl.Edn)
5	Sri M.P.Kandasamy	Lecturer	M.A.	M.Ed(Spl.Edn)
6	Kum. I.Prabha	Lecturer	M.Sc.	M.Ed(Spl.Edn)
7	Kum. PriyankaUpadhyay	Lecturer	M.Com.	M.Ed(Spl.Edn)

**2007-08**

Sl	Name of the staff	Designation	Qualification	
			Qualification	RCI Qualification
1	SriS.Parthasarathy	Lecturer	M.A	M.Ed(Sp.I Edn)
2	Kum.M.Annakodi	Lecturer	M.Sc	M.Ed(Spl.Edn)
3	Smt. R.Sathyapriya	Lecturer	M.Sc	M.Ed(Spl.Edn)
4	Sri M.P.Kandasamy	Lecturer	M.A	M.Ed(Spl.Edn)
5	Kum. PriyankaUpadhyay	Lecturer	M.Com	M.Ed(Spl.Edn)
6	Smt. M.Lakshmi	Lecturer	M.A	M.Ed(Spl.Edn)
7	Sri A.Sundaravadivel	Lecturer	M.Com	M.Ed(Spl.Edn)

**2008-09**

Sl	Name of the staff	Designation	Qualification	
			Qualification	RCI Qualification
1	Kum.M.Annakodi	Lecturer	M.Sc	M.Ed(Sp.I Edn)
2	Sri M.P.Kandasamy	Lecturer	M.A	M.Ed(Spl.Edn)
3	Smt. M.Lakshmi	Lecturer	M.A	M.Ed(Spl.Edn)
4	Kum.SVSJ.Karthigai Selvi	Lecturer	M.Sc	M.Ed(Spl.Edn)
5	Smt. C.Renugadevi	Lecturer	M.Com	M.Ed(Spl.Edn)
6	Sri P.Ramakrishna	Lecturer	M.A	M.Ed(Spl.Edn)
7	SriA.Durairaj	Lecturer	M.A.	O&M Training
8	Smt. Kamakshamma Moorthy	Lecturer	M.A	M.Ed(Spl.Edn)

**2009-10**

Sl	Name of the staff	Designation	Qualification	
			Qualification	RCI Qualification
1	Kum.M.Annakodi	Lecturer	M.Sc	M.Ed(Sp.I Edn)
2	Sri M.P.Kandasamy	Lecturer	M.A	M.Ed(Spl.Edn)
3	Smt. C.Renugadevi	Lecturer	M.Com	M.Ed(Spl.Edn)
4	Sri P.Ramakrishna	Lecturer	M.A	M.Ed(Spl.Edn)
5	SriA.Durairaj	Lecturer	M.A.	O&M Training
6	Smt. Kamakshamma Moorthy	Lecturer	M.A	M.Ed(Spl Edn)
7	Smt. A.Sudha	Lecturer	M.A	M.Ed(Spl.Edn)
8	Smt.J.B.Dheesha	Lecturer	M.Sc	M.Ed(Spl.Edn)

**1.5.42. Faculty of ‘General & Adapted Physical Education and Yoga’**

**2007-08**

Sl	Name of the staff	Designation	Qualification
1	Dr.M.S.Nagarajan	Hon.Dean	PhD
2	Dr.Jahind Jothikaran	Professor	PhD
3	Sri.E.Amudhan	Lecturer	MPed, MPhil
4	Sri.M.Ganesh Kumar	Lecturer	MPed, MPhil
5	Sri.R.Giridharan	Lecturer	MPed, MPhil
6	Sri.M.Suresh kumar	Lecturer	MPed, MPhil

**2008-09**

Sl	Name of the staff	Designation	Qualification
1	Dr.M.S.Nagarajan	Hon.Dean	PhD
2	Dr.Jahind Jothikaran	Professor	PhD
3	Sri.E.Amudhan	Lecturer	MPed, MPhil
4	Sri.M.Ganesh Kumar	Lecturer	MPed, MPhil
5	Sri.R.Giridharan	Lecturer	MPed, MPhil
6	Sri.S.Sivasankar	Lecturer	MPed, MPhil

Sl	Name of the staff	Designation	Qualification
7	Sri.S.Kalidasan	Lecturer	MPEd, MPhil
8	Dr.R.Jayachandran	Lecturer	PhD
9	Sri.S.Udhayashankar	Lecturer	MPEd, MPhil
10	Sri.S.Akila	Lecturer	MPEd
11	Sri.O.Jiten Singh	Lecturer	MPEd, MPhil

**2009-10**

Sl	Name of the staff	Designation	Qualification
1	Dr.M.S.Nagarajan	Hon.Dean	PhD
2	Dr.P.Peraiya	Professor	PhD
3	Sri.E.Amudhan	Reader	MPEd, MPhil
4	Sri.M.Ganesh Kumar	Lecturer	MPEd, MPhil
5	Sri.S.Sivasankar	Lecturer	MPEd, MPhil
6	Sri.S.Kalidasan	Lecturer	MPEd, MPhil
7	Dr.R.Jayachandran	Lecturer	PhD
8	Sri.S.Udhayashankar	Lecturer	MPEd, MPhil
9	Sri.S.Akila	Lecturer	MPEd
10	Sri.O.Jiten Singh	Lecturer	MPEd, MPhil
11	Sri.M.Srinivasan	Lecturer	MPEd, MPhil

Note: The above salaries are being revised according to the qualifications of the teacher concerned.

**1.6. Status of Rectification of Deficiencies as pointed out by UGC Expert Committee(s):**

So far UGC Expert Committees have visited the University only on two occasions: (i) at the time of inclusion of three 'off-campus' centres under the ambit of the University in June 2006, and (ii) at the time of approving the starting of courses in mathematical sciences and Indian heritage under the School of Mathematical Sciences and School of Indian Heritage, in June 2008. Although these Committees have not pointed out any deficiencies to be rectified, the University has taken efforts to abide by the recommendations of the Committees.

**1.7. Infrastructure:****1.7.1. Belur Main Campus****1.7.11. Building Details—Class Rooms etc.**

A new 4-storeyed building, with a total area 50000 sq.ft. (approximately), was constructed at Belur Main

Campus in 2008. This building is the central administrative-cum-academic building of the campus. Three more buildings have been planned, and the construction work on these new buildings has begun from April 2010, for the two Schools, namely, School of Mathematical Sciences and School of Indian Heritage, as well as Central Library-cum-Computer Centre. While the two buildings housing the two Schools will be 3-storeyed buildings (total area nearly  $18000 \times 2 = 36000$  sq.ft.), the Central Library building will be a 4-storeyed building (total area nearly 24000 sq.ft.).

**1.7.12. Building Infrastructure at Belur Campus:**

	Room No.	Room Purpose	Size (in sq ft)	No.
Ground Floor (12,000 sq ft)	101	Conference Room	40.5 x 24.5	1
	102	Control Room	12.6 x 10.4	1
	103	Server Room	12.6 x 10.4	1
	104	Press Room	25.7 x 20	1
	105	Visitors Room	20 x 13.5	1
	106	Meeting Room	20 x 13.5	1
	107	Canteen	12.5 x 10	1
	108	Store	12.5 x 10.4	1
	109	General Office	40.5 x 37.6	1
	110	Vivekdisha	24.6 x 22.5	1
	111	Office	20 x 13.5	1
	112	VC Room	20 x 19.8	1
	113	VC Office	20 x 12.7	1
	114	Registrar Office	20 x 12.7	1
	115	Registrar Room	20 x 19.8	1
	116	Room of Controller of Examination	20 x 13.5	1
	117	Class Room	24.5 x 20	1

First Floor (12,000 sq ft)	Room No.	Room Purpose	Size (in sq ft)	No.
	201	Seminar Hall	40.5 x 24.5	1
	202	Store	12.6 x 10.4	1
	203	Server Room	12.6 x 10.4	1
	204	Computer Lab	25.7 x 20	1
	205	Faculty Room	20 x 13.5	1
	206	Class Room	20 x 13.5	1
	207	Library	50.9 x 40.5	1
	208	Library	24.6 x 22.5	1
	209	Class Room	20 x 13.5	1
	210	Class Room	20 x 19.8	1
	211	Computer Lab	25.2 x 20	1
	212	Class Room	20 x 19.8	1
	213	Class Room	20 x 13.5	1
	214	Class Room	24.5 x 20	1

Second Floor (12,000 sq ft)	Room No.	Room Purpose	Size (in sq ft)	No.
	301	Teachers' Cubicle (9 nos.)	45.3 x 40.5	1
	302	Discussion Room	12.6 x 10.4	1
	303	Scholar Room	20 x 13.5	1
	304	Guest Room	20 x 13.5	1
	305	Guest Dining Hall	12.5 X 20	1
	306	Store	12.5 x 10.4	1
	307	Archive Room	40.5 x 24.5	1
	308	Guest Room	12.5 x 10.4	1
	309	Guest Room	12.5 x 10.4	1
	310	Guest Room	20 x 13.5	1
	311	Class Room	20 x 19.8	1
	312	Guest Room	20 x 12.5	1
	313	Guest Room	20 x 12.5	1
	314	Class Room	20 x 19.8	1
	315	Guest Room	20 x 13.5	1
	316	Guest Room	20 x 10.5	1
317	Guest Room	20 x 10.5	1	

Class Rooms = 9 nos., Seminar Hall = 1 no., Conference Room = 1 no.,  
 Computer Labs = 2 no., Library = 2 no., Guest Rooms = 9 nos.,  
 Discussion Room = 1 no., Scholars' Rooms = 1 no., Common toilets = 6 nos.

### 1.7.13. Equipment Infrastructure at Belur Campus:

Computers – 74 nos., Printers – 13 nos., Scanners – 3 nos., UPS – 92 nos., Laptop computers – 4 nos., Pro-curve switches – 30 nos., Pro-curve switch boxes – 9 nos., Complete Sound System Devices (41 items), LCD projector – 2 nos., Air conditioners, Standby generator (82.5 KV), Cameras – 2 nos., Overhead Projector – 1 no., Vacuum Cleaner – 1 no.

### 1.7.2. Ranchi Faculty Centre

#### 1.7.2.1. Building Infrastructural Details

At the outset, it should be remembered that the IRTDM Faculty of the deemed university established under the aegis of and with the same registration as Ramakrishna Mission, is located at Ramakrishna Mission Ashrama Divyayan Krishi Vigyan Kendra Campus, Morabadi, Ranchi, Jharkhand. Ramakrishna Mission Ashrama, Morabadi,



Ranchi is a sprawling campus nearly 290 acres in area. Ramakrishna Mission Ashram, Divyayan Krishi Vigyan Kendra, Morabadi, Ranchi has been engaged in Integrated rural and tribal development activities for the past three decades. It has developed an inbuilt system of residential training, extension demonstration, on farm research and other developmental activities in its 70 adopted villages. It has fairly highly developed infrastructure facilities like a well-equipped soil testing laboratory, honey processing plant, honey testing laboratory, bio-technology center, poultry, duckery, dairy and fishery units with hatchery etc. It also has a mushroom production center. Library and medical facilities are also available. The Ashrama has been giving education to the village children through National Open School. Along with basic education (from class I to 8) and academic education for class 9 to 12, we impart vocational education in which students take up vocational subjects like soil analysis and use of fertilizers, water management, pest management, poultry, mushroom cultivation, carpentry, solar energy mechanic training and bio-gas technician training.

Since the deemed university has the same registration as the Ramakrishna Mission itself and enjoys the full patronage of the latter, its sponsoring/parent society, the university has the great advantage of being able to utilize the entire infrastructural facilities of Divyayan Krishi Vigyan Kendra carefully built up over several decades. Further, recently the university has constructed an independent building of its own for academic and administrative purposes, a massive three-storeyed structure whose ground floor is complete and fully functional. The other storeys will be built as soon as funds are available. The details of rooms and accommodation for administrative and academic needs in this new building are given in the following chart.

**Ranchi Faculty Centre—Details of Rooms and Accommodation in the New Building**

	Room No.	Room Purpose	Length-Breadth	Nos.
Ground Floor	R-101	Lecturers' Room	21'3"x21'3"	1
	R-102	Conference Room	25'5"x25'3"	1
	R-103	Reception Room	21'3"x12'3"	1
	R-104	Administrative Head Room	25'3"x21'3"	1
	R-105	Dean's Room	21'3"x12'3"	1
	R-106	Class Room	21'3"x12'3"	4
	R-107	Class Room	21'3"x12'3"	
	R-108	Class Room	25'5"x14'9"	
	R-115	Class Room	25'3"x21'3"	
	LT-1/1	Ladies Toilet	15'3"x6'8"	1
	R-109	Canteen Room	21'8"x21'3"	1
	R-110	Computer Room	40'4"x21'3"	1
	GT-1/2	Drinking Place	14'3"x9'6"	1
		Gents Toilet	14'9"x14'10"	1
WT-1	Workers Toilet	9'10"x9'9"	1	

Ground Floor	Room No.	Room Purpose	Length-Breadth	Nos.
	R-111	Guard Room	14'10"x 9'6"	1
	R-112	Mushroom Laboratory	21'3"x12'1"	1
	R-113	Bio-tech Laboratory	38'6"x21'3"	1
	R-114	IRTDM Workshop	25'3"x21'3"	1
	R-115	Class Room	25'3"x21'3"	1
	R-116	Coordinator & General Office Room	21'5"x21'3"	1
	G-1	Store Room	17'8"x15'3"	1
	G-2	Control Room for dais	17'8"x15'3"	1
	D-1	Dais	25'6"x16'5"	1
		Main Entrance area	23'6"x 20'	1
		Side Varanda	128'x6'6" 107x6'6"	1 1
		Front Varanda & Back side	64'9"x6'6"	2
	—	Only Roof Casting is completed	Almost similar as above	

### 1.7.3. Narendrapur Faculty Centre

#### 1.7.31. Building Infrastructural Details

The Faculty of 'Integrated Rural Development and Management' of the deemed university is located at Ramakrishna Mission Ashrama, Narendrapur, a sprawling, nearly 250 acre area housing a huge educational complex. The university having the same registration as Ramakrishna Misison, its parent/sponsoring society, has the great advantage of enjoying the benefit of the entire infrastructure carefully developed by Ramakrishna Mission Centre at Narendrapur. The Rural Development Activities of Ramakrishna Mission Ashrama, Narendrapur, are very well known for their integrated approach, qualitative development work etc., and are well linked with the different departments of State and Central Governments. The international organizations/funding agencies like UNICEF, Ford Foundation, Konrad Adenauer Foundation, German Agro Action, European Union, International Rice Research Institute, International Fund for Agricultural Development, etc. also participate in and contribute to agricultural and overall rural development activities.

Besides being able to utilize the infrastructural facilities of Ramakrishna Mission Centre at Narendrapur Ashrama, the university has recently built its own independent building, a massive three-storeyed structure for academic and administrative purposes. The details of rooms and accommodation for administrative and

academic needs in this new building are given in the following chart.

**Narendrapur Faculty Centre—Details of Rooms and Accommodation in the New Building**

	Room Purpose	Length-Breadth	Nos.
Ground Floor	General Office	26'x16'	2
	Teacher's Common Room	26'x20'	1
	Guest Waiting Room	26'x16'	1
	Dean of Research's Room	16'x16'	1
	Administrative Head's Room	20'x20'	1
	Laboratory Room	40'x28'6"	
	Library	52'x28'6"	1
	Computer Server Room	10'x14'	1
	Store Room	10'x14'	1
	Gents Toilet		1
	Ladies Toilet		1
	Stairs		2
First Floor	Class Room	26'x16'	4
	Students Common Room	20'x20'	1
	VIVEKDISHA—ISRO-VRC Project Room	20'x20'	1
	Laboratory Room	40'x28'6"	1
	Seminar Hall	52'x20'	1
	Gents Toilet		1
	Ladies Toilet		1
	Store	10'x28'6"	1
Second Floor	Class Room	26'x16'	4
	Class Room	20'x20'	2
	Laboratory/Hall	52'x28'6"	2
	Toilets (Gents & Ladies)		1 each

The laboratory facilities at the Ramakrishna Mission Centre at Narendrapur are fairly huge: tissue culture laboratory, bio-fertilizer laboratory, bio-pesticides production unit, bio-control laboratory, soil testing laboratory etc.

#### 1.7.4. Coimbatore Faculty Centre

##### 1.7.41. Faculty of 'Disability Management and Special Education'

The Faculty of 'Disability Management and Special Education' of the deemed university is located at Ramakrishna Mission Vidyalaya, a sprawling, nearly 290 acre area housing a huge educational complex. The university having the same registration as Ramakrishna Mission, its parent/sponsoring society, has the great advantage of enjoying the benefit of the entire infrastructure carefully developed by Ramakrishna Mission Centre at Coimbatore.

The following are the details of the infrastructure in terms of building, equipment and furniture, developed by the deemed university's Faculty Centre at Coimbatore for the Faculty of 'Disability Management and Special Education'. (Note that only the additional facility over and above what existed at the time of conferment of the deemed university has been indicated).

Sl	Description	At the time of conferment	Present Status
1	Administrative Block	26910 Sq.Ft	1076 Sq.Ft.
2	Boy's Hostel	7002 Sq.Ft.	7200 Sq.Ft.
3	Girls hostel:	6377 Sq.Ft.	
4	Administrative block Extension (Library hall)	-	-
5	Academic Block ground + First floor	18962 Sq.Ft.	
6	Overseas hostel	1440 Sq.Ft.	
7	Staff Quarters	8194 Sq.Ft.	
8	Extension Building extension	6248 Sq.Ft.	
9	Store room	1200 Sq.Ft.	
10	Canteen	1050 Sq.Ft.	
11	Laying tar roads and landscaping	45200 Sq.Ft.	
12	Computers Center	516 Sq.Ft.	

EQUIPMENT		
S.No.	Date	Items
1	05.11.2005	Library Vision Over Head Projector Model No. 385 Delux

EQUIPMENT		
S.No.	Date	Items
2	31.12.2005	Ricoh Photo Copier Model Aficio 2020D with in Duplex Printer for Scanner Network Card
3	20.03.2006	Digital Handi Camera
1	17.10.2006	Pentium 4 Computer System
2	10.11.2006	2kva Voltage Digital Servo controlled Stabilizer
3	10.07.2006	LG DVD Player
1	30.05.2007	High Speed Braille Printer (4 Way)
2	07.07.2007	Intel Pentium 4 Computer 2 Nos.
3	02.02.2008	600 KVA UPS
4	30.11.2007	600 KVA UPS 9 Nos.
5	20.11.2007	Library Coding Printing Machine
1	30.10.2008	Dotmatrix Printer
2	30.10.2008	Numeric 600VA UPS
3	30.10.2008	DVD Drive
4	23.12.2008	Online 3KVA UPS
5	28.01.2009	Low Couch (without mattress)
6	28.01.2009	Swiss Ball - 120 cm
7	28.01.2009	Swiss Ball - 80 cm
8	28.01.2009	C.P. Walker
9	28.01.2009	C.P. Chair
10	28.01.2009	Peg Board (Various Shapes)
11	28.01.2009	Adjustable Static Cycle - Indian
12	28.01.2009	Weight Cuffes - 1.5
13	28.01.2009	Weight Cuffes - 2
14	28.01.2009	Weight Cuffes - 3.5
15	28.01.2009	Weight Cuffes - 5
16	05.06.2008	P4 System
17	05.06.2008	2KVA UPS System with DC Power Pak
18	21.07.2008	Psychology Equipments

FURNITURE		
S.No.	Date	Items
1	07.10.2005	S Type Chair 3 Nos.
2	07.10.2005	Steel Table
3	31.03.2006	Steel Cot - 16 Nos.
4	31.03.2006	Steel Table
5	31.03.2006	Steel Non Folding Chair
1	04.08.2006	Perfodesk with side Box 125 Nos.
2	04.08.2006	Perfodesk with side Box 125 Nos.
3	22.09.2006	Steel Rack 5 Self 5 Nos.
4	22.09.2006	Steel Copboard Vou. No. 143
5	30.12.2006	Wooden Tables (Small) 8 Nos.
6	14.03.2007	Table, Vou No. 360
7	31.03.2007	Executive Table 2 Nos.
8	31.03.2007	Almirah
1	16.08.2007	Almirah (1), Table (2), Chair (2)
2	12.10.2007	Table with Trally (Cleaning work)
3	12.10.2007	Steel Rack 2 Nos.
4	29.10.2007	Nilkamal Chairs 60 Nos.
5	30.11.2007	Almirah Glass Type 3 Nos.
6	01.03.2008	Steel Rack 3 Nos.
7	31.03.2008	Steel Rack 2 Nos.
1	21.06.2009	Executive Tables 3 Nos.
2	25.06.2008	Almirah 4 Nos.
3	08.07.2008	Executive Chairs
4	16.07.2008	Computer Table
5	13.08.2008	Almirah
6	13.08.2008	8' x 2' Bench
7	07.02.2009	S Type Chair With S.S. Pade

### 1.7.5. Faculty of 'Disability Management and Special Education'

Only additional facilities have been indicated.

Sl	DESCRIPTION
1	Administrative-cum-academic Block
2	Niranjanananda Hostel
3	Prayer hall
4	Extension Building for Library Block
5	Extension of Fitness Center
6	Play field (200 mts, 8-lane, Olympic size standard track & field that is the part of a 350 mts fitness track – separate track and landing for field events such as long jump, triple jump, pole vault and high jump – standard hockey field – kho-kho court 2 nos. – Cricket practice net with run up tracks 2 nos. – Volleyball court softball playfield – Badminton court.

EQUIPMENT		
S.No.	Date	Items
2007-2008		
1	11.08.2008	Gym equipments
2	25.08.2008	Gym equipments
3	03.11.2008	Toys for disabled sports
4	30.11.2007	Sports Equipments
5	20.11.2007	Computers & accessories
6	23.06.2008	Gym Equipments
7	27.03.2008	Gym Equipments
8	04.03.2008	Psychology equipments
9	28.01.2008	Sports medicine equipments
2008-2009		
1	31.03.2009	Sports Equipments
2	23.12.2008	Sports medicine equipments
3	2009	Boxing ring and accessories
FURNITURE		
2007-2008		
1	07.03.2007	Table 2' X 3'
2	07.03.2007	Table 2' X 4'

EQUIPMENT		
S.No.	Date	Items
3	07.03.2007	Table 2 1/2' X 5'
4	07.03.2007	S type Chair
5	07.03.2007	Steel Chair
6	07.03.2007	Executive type chair
7	07.03.2007	Chair with writing pad
8	07.03.2007	Almirah 4'
9	07.03.2007	Aalmirah 6'
10	07.03.2007	Book rack
11	07.03.2007	File rack
12	07.03.2007	Computer table, Chair set
13	07.03.2007	Visitor sofa set
14	07.03.2007	Desk and bench
15	07.03.2007	Library book display
16	07.03.2007	Book rack
2008-2009		
1	16.10.2008	Wooden display rack
2	16.10.2008	Wooden almirah
3	16.10.2008	Steel almirah
4	16.10.2008	Wooden table
5	16.10.2008	Chair with writing pad

### 1.7.6. Vivekananda Research Centre at Swami Vivekananda's Ancestral House in Kolkata

#### Building Infrastructural Facilities

Ground Floor:

- Reception Room: 24' x 18'
- Office: 19' x 14.5'
- Library: 25' x 19'

First Floor:

- Discussion Room: 17' x 11'
- Seminar Room: 25' x 19'
- Class Room: 19' x 14.5'
- Teachers' Cubicle: 17' x 10'

Second Floor:



- Office Room: 16.5' x 11'
- Teachers' Cubicles (2): 10' x 10' each
- Class Room: 19' x 14'
- Scholars' Working Facility: 24' x 10'
- Teachers' Cubicle: 12' x 10'

### 1.8. Status of Accreditation:

The University is presently under de novo category and is completing five years in December 2009. The question of accreditation will occur only after it is confirmed in its status on completion of five years. The UGC review Committee has recommended that the Deemed University status of the Institute may be confirmed by UGC on the basis of the present Review Report as the five-year period of de novo status is just complete. The University would then initiate the assessment and accreditation process with NAAC.

### 1.9. Research:

#### 1.9.1. Research Projects approved and completed during the last 5 years:

##### 1.9.11. Belur Main Campus

##### 1.9.11.1. School of Mathematical Sciences—Dept. of Mathematics

- » UGC Major Research Project on Local Connectivity of Limit Sets -- Mahan Mj
- » DST Research Project on Geometry and Dynamics -- Mahan Mj and Kingshook Biswas
- » National Board of Higher Mathematics (NBHM) recommended the University for an annual library grant for its excellence—M.Sc. and Ph.D. programme
- » IFCAPR (CEFIPRA) joint Indo-French project on Analytical and Geometric Aspects of Kleinian Groups, by Mahan Mj and Kingshook Biswas, in collaboration with Jean-Pierre Otal and Cyril Lecuire of Universite Paul Sabatier, Toulouse III, France. Proposal being processed.

##### 1.9.11.2. School of Mathematical Sciences—Dept. of Physics

- » Prof Prasanta Kumar Mukherjee of the Dept. of Physics is the co-investigator of the project sanctioned by "Board of Research in Nuclear Sciences" (BRNS)—Project no: NO 2007/37/59/BRNS, titled "Effect of laser plasma on doubly excited states of 2-electron systems and its applications in plasma diagnostics". Total cost of the project: Rs 8,59,250/-
- » Prof Mukherjee is also the Principal Investigator of the Project sanctioned by "Department of Space and Technology (DST)"—Project No SR/S2/LOP-22/2008 titled "Quantum Chemical studies on confined atomic structure problems: Bound state and collision approach". Total cost of the project: Rs 11,59,600/-.
- » Prof Mukherjee is also collaborating in the following projects: "Spectroscopy of atoms under liquid helium" with Prof Sylvio Canuto, Department of Physics, University of Sao Paulo, Brazil, under FAPESP, and "Spectroscopy of atoms under dense plasma environment" with Prof Burkhard Fricke of Department of Physics, University of Kassel, Germany under Alexander von Humboldt Fellowship.

##### 1.9.12. Narendrapur Faculty Centre

Research Projects funded by external agency:

Sl. No.	Title of the project	Funding Agency
1	Sustainable Agriculture with Low Cost Technologies (SALoCT)	Rural Technology Action Group: RuTAG-EI, IIT, Kharagpur
2	Sustainable Agriculture with Low Cost Technologies (SALoCT)" Phase II (2009-10)	Rural Technology Action Group: RuTAG-EI, IIT Kharagpur

Total cost of the entire project: Rs.48000 per annum for 3 years = Rs.144000/-

### 1.9.13. Coimbatore Faculty Centre

Year	Description	Funding Agency
2009	Development of Trilingual Indian Sign Language Dictionary, 2 <sup>nd</sup> edition	The projects were executed with the help of NGOs
2009	Revised edition of Technical Sign Language Dictionary	
2007	Development of Banking Terminologies in Sign Language	
2006	Development of Signs for teaching Mathematics	
2005	Braille Contractions	
2005	Credit Accumulation for RCI Approved Courses	

### 1.9.2. Research Publications in conferences, journals and books by the faculty during the last 5 years (year, conferences, journals, books):

#### 1.9.2.1. Belur Main Campus

##### 1.9.2.1.1. School of Mathematical Sciences—Dept. of Mathematics

The publications by the four faculty members, namely, Kingshook Biswas, Indranath Sengupta, Mahan Mj and Ashoke Kumar Roy are as follows:

#### Publications by Kingshook Biswas

- » Flows, Fixed Points and Rigidity for Kleinian Groups, arXiv:0903.2419 preprint
- » Pattern Rigidity in Hyperbolic Spaces: Duality and PD Subgroups with Mahan Mj), preprint 2008, submitted.
- » Maximal Abelian Torsion Subgroups of Diff(C,0), Preprint, 2008, submitted
- » Complete Conjugacy Invariants of Nonlinearizable Holomorphic Dynamics, Discrete and Continuous Dynamical Systems, to appear.
- » Log-Riemann Surfaces (with Ricardo Perez-Marco). Preprint, 2006.

- » On Tube-Log Riemann Surfaces and Primitives of Rational Functions (with Ricardo Perez-Marco), Preprint, 2005.
- » Hedgehogs of Hausdorff Dimension One, Ergodic Theory and Dynamical Systems, Volume 28, Issue 06, December 2008, pp. 1713-1727.
- » Smooth Combs Inside Hedgehogs, Discrete and Continuous Dynamical Systems, Volume 12, Number 5, May 2005, pp. 853-880

### **Publications by Indranath Sengupta**

- » On The Smoothness of Blowups for Certain Monomial Curves, preprint, 2009,
- » (with Debasish Mukhopadhyay)
- » The Rees Algebra for Certain Monomial Curves, preprint, 2009, (with Debasish Mukhopadhyay)
- » HF-hash : Hash Functions Using Restricted HFE, Challenge-I, preprint, 2008
- » (with D. Dey, P. R. Mishra)
- » Prime Numbers, Mathematics Newsletter, Ramanujan Mathematical Society, 15(3), pp.62 - 67 (December 2005).
- » A Grobner Basis for Certain Affine Monomial Curves, Communications in Algebra, 31(3), 1113 - 1129 (2003), DOI : 10.1081/AGB - 120017757.
- » A Minimal Free Resolution for Certain Affine Monomial Curves in  $A^4$ , Communications in Algebra, 31(6), pp. 2791 - 2809 (2003), DOI : 10.1081/AGB - 120021893.
- » Criterion for Complete Intersection of certain Monomial Curves, (with AK Maloo), Advances in Algebra and Geometry, University of Hyderabad Conference 2001, Edited by C. Musili, pp.179 - 184, Hindustan Book Agency, 2003.

### **Publications by Mahan Mj**

- » Pattern Rigidity and the Hilbert-Smith Conjecture, preprint 2009, submitted
- » Splittings and C-Complexes (with Peter Scott and G. A. Swarup),
- » Algebraic and Geometric Topology 9 (2009) 1971-1986
- » Pattern Rigidity in Hyperbolic Spaces: Duality and PD Subgroups (with Kingshook Biswas), submitted
- » Universal Cannon-Thurston Maps and Curve Complexes, (with Chris Leininger and Saul Schleimer), preprint 2008, submitted
- » Relative Hyperbolicity, Trees of Spaces and Cannon-Thurston Maps, (with Abhijit Pal), submitted to Geometriae Dedicata
- » Mapping Class Groups and Interpolating Complexes: Rank, to appear in Journal of the Ramanujan Mathematical Society
- » Relative Rigidity, Quasiconvexity and C-Complexes, Algebraic and Geometric Topology vol. 8 (2008) 1691-1716
- » A Combination Theorem for Strong Relative Hyperbolicity, (with Lawrence Reeves), Geometry & Topology 12 (2008) 1777-1798
- » Ending Laminations and Cannon-Thurston Maps, submitted to Geometric and Functional Analysis
- » Cannon-Thurston Maps for Surface Groups II: Split Geometry and the Minsky Model, preprint, submitted
- » Cannon-Thurston Maps for Surface Groups I: Amalgamation Geometry and Split Geometry, preprint, submitted
- » Cannon-Thurston Maps, i-bounded Geometry and a theorem of McMullen, preprint
- » Cannon-Thurston Maps for Pared Manifolds of Bounded Geometry, Geometry & Topology 13 (2009) 189-245
- » Cannon-Thurston Maps and Bounded Geometry, To appear in Proceedings of Workshop on Teichmuller

Theory at Harishchandra Research Institute, Allahabad, to be published by Ramanujan Mathematical Society

- » Height in splittings of hyperbolic groups, Proc. Indian Acad. Sci. (Math. Sci.), Vol. 114, No. 1, February 2004, pp. 39-54
- » “What is Hyperbolic Geometry?” to appear in Mathematics Newsletter, Ramanujan Mathematical Society, (December 2009).

### **Publications by Ashoke Roy (permanent visiting professor)**

- » Ball remotality of M-ideals in some function spaces and function algebras, (with Pradipta Bandyopadhyay) and Tanmoy Paul, Positivity, August 2009, DOI 10.1007/s11117-009-0030-7
- » Uniqueness of invariant Hahn-Banach extensions, Extracta Math. 22 (2007), no. 2, 93–114. - PradiptaBandyopadhyay and Ashoke K Roy
- » Multiplicatively spectrum-preserving maps of function algebras. II. Proc. Edinb. Math. Soc. (2) 48 (2005), no. 1, 219–229. N. V. Rao, and Ashoke K Roy
- » Multiplicatively spectrum-preserving maps of function algebras, Proc. Amer. Math. Soc. 133 (2005), no. 4, 1135–1142 N. V. Rao, and Ashoke K Roy
- » Nested sequences of balls, uniqueness of Hahn-Banach extensions and the Vlasov property. Rocky Mountain J. Math. 33 (2003), no. 1, 27–67. PradiptaBandyopadhyay and Ashoke K Roy

### **Publications by the PhD students**

#### **Names of students under the guidance of:**

- **Dr Indranath Sengupta**

Debashish Mukhopadhyay--PhD final result expected by December 2009 from Jadavpur University, Kolkata  
Dhananjay De -- PhD final result expected by December 2009 from Jadavpur University, Kolkata

- **Under the guidance of Mahan Mj**

Abhijit Pal--PhD final result expected by June 2010 from Indian Statistical Institute.

#### **Publications of the above PhD students**

- **Debashish Mukhopadhyay**

- » On The Smoothness of Blowups for Certain Monomial Curves, preprint, 2009, (with Indranath Sengupta)
- » The Rees Algebra for Certain Monomial Curves, preprint, 2009, (with Indranath Sengupta)
- » The symmetric Algebra for Certain Monomial Curves, preprint, 2009

- **Dhananjay De**

- » HF-hash : Hash Functions Using Restricted HFE Challenge-I, preprint, 2008, (with Indranath Sengupta, P. R. Mishra)

- **Abhijit Pal**

- » Relative Hyperbolicity, Trees of Spaces and Cannon-Thurston Maps, (with Mahan Mj), submitted to Geometriae Dedicata
- » Relatively hyperbolic extensions of groups and Cannon-Thurston Maps, accepted for publication in

Proceedings of the Indian Academy of Sciences

- **Pranab Sardar**

- » Projective normality of quotient varieties modulo finite groups, Proc. Amer. Math. Soc. 137 (2009), 863-867.(with S.S. Kannan, S. A. Pattanayak)
- » Torus quotients of homogeneous spaces of the general linear group and the standard representation of certain symmetric groups, Proceedings of the Indian Academy of Sciences, Volume 119, Number 1 / February, 2009 (with S.S. Kannan)
- » A Combination Theorem for Metric Bundles, preprint 2009

### 1.9.2.1.2. School of Mathematical Sciences—Dept. of Physics

The publications by the five faculty members, namely, Abhijit Bandyopadhyay, Ashik Iqubal, Prashanta Kumar Mukherjee, Amulya Chandra Roy and Siddhartha Roy, are as follows:

#### **Publications by Abhijit Bandyopadhyay**

- » Neutrino Oscillation Parameters After High Statistics KamLAND Results.
- » (with Sandhya Choubey, Srubabati Giswami, S T Perciov and D P Roy), e-Print: arXiv:0804.4857 [hep-ph]
- » The  $(3+2)$  neutrino mass spectrum and double chooz (with Sandhya Choube), e-Print: arXiv:0707.2481 [hep-ph]
- » Constraints on flavor-dependent long range forces from solar neutrinos and KamLAND, (with Amol Dighe and Anjan S Joshipura), published in Phys.Rev.D75:093005,2007
- » Solar Model Parameters and Direct Measurements of Solar Neutrino Fluxes (with Sandhya Choubey, Srubabati Giswami and S T Perciov), published in Phys.Rev.D75:093007, 2007.
- » High precision measurements of  $\theta(\text{solar})$  in solar and reactor neutrino experiments (with Sandhya Choubey, Srubabati Giswami and S T Perciov), Published in Phys.Rev.D72:033013,2005.
- » Update of the solar neutrino oscillation analysis with the 766 Ty KamLAND spectrum (with Sandhya Choubey, Srubabati Giswami, S T Perciov and D P Roy), Published in Phys.Lett.B608:115-129,2005.
- » On the measurement of solar neutrino oscillation parameters with KamLAND (with Sandhya Choubey, Srubabati Giswami and S T Perciov), Published in Phys.Lett.B581:62-74,2004.

#### **Publications by Ashik Iqubal**

- » Spinning strings as small black rings (with Atish Dabholkar, Norihiro Iizuka, Ashoke Sen, and Masaki Shiomori), Published in JHEP 0704:017, 2007.
- » Precision microstate counting of small black rings (with Atish Dabholkar, Norihiro Iizuka, and Masaki Shiomori), Published in Phys.Rev.Lett.96:071601,2006.
- » Off-shell interactions for closed string tachyons (with Atish Dabholkar and Joris Raymaekers), Published in JHEP 0405:051,2004.

#### **Publications by Prashanta Kumar (P.K.) Mukherjee**

- » Effect of Debye Plasma on the spectra of helium, Jayanta K. Saha, S. Bhattacharyya, T. K. Mukherjee and P. K. Mukherjee ( Communicated )
- »  $2p\text{-}np(1,3)P(e)$  states of He and Li (+) ion under Debye plasma : J. K. Saha, S.Bhattacharyya, T. K. Mukherjee and P. K. Mukherjee, Accepted, P. Phys. B. At.Mol. Opt. Phys. (2009)

- » Doubly excited(1,3) D (o) states of two electron atoms : J. K. Saha, S. Bhattacharyya, T. K. Mukherjee and P. K. Mukherjee , Chem. Phys. Lett , 478, 292 (2009)
- » Spectra of helium like carbon, aluminium and argon under strongly coupled plasma, Authors: P.K. Mukherjee, A.N. Sil, J. Anton, S. Fritzsche and B. Fricke, Eur. Phys J. D(2009) (In Web)
- » Borromean states of three particle systems with attractive and repulsive interactions, M. Pawlak, M. Bylicki, J. K. Saha and P. K. Mukherjee, J. Phys. B. At. Mol. Opt. Phys. 2009 (In Press)
- » Spectroscopy of atoms in liquid helium environment : A theoretical perspective, K. Coutinho, S. Canuto, P. K. Mukherjee and B. Fricke, in Advances in the Theory of Atomic and Molecular Systems, Dynamics, Spectroscopy, Clusters and Nanostructures, Vol 20 of the Springer Book Series " Progress in Theoretical Chemistry and Physics"Eds. P. Piecuch, J. Maruani, G. Delgado-Barrio and S. Wilson (2009)pp. 183-200.
- » Spectroscopy of confined atomic systems : Effect of plasma, A. N. Sil, S. Canuto and P. K. Mukherjee, Invited Rev. Adv. Quantum Chem, 58, 115, 2009.
- » The role of 2s vacancy on two electron one photon line: Relativistic approach; J K Saha, T K Mukherjee, S Fritzsche and P K Mukherjee , Phys. Lett. A, 373, 252, 2009.
- » Ritz variational calculation for two electron one photon transitions in helium : SBhattacharyya, J K Saha, T K Mukherjee and P K Mukherjee, Phys Rev A 78, 032505, 2008.
- » Ab-initio relativistic density functional calculations for spectral line shifts in liquidhelium :J. Anton, B. Fricke, P.K.Mukherjee and S. Fritzsche, PLA, 372, 4462 (2008)
- » Vibrational effects on the dynamic electric properties of hydrogen peroxide : E. Santiago, M. A. Castro, T. L. Fonseca and P.K.Mukherjee, J. Chem. Phys., 128, 064310 (2008)
- » The influence of Debye plasma on the ground state energies of exotic systems: A. N. Sil, P. Mariusz, P. K. Mukherjee and Miroslaw Bylicki, JQSRT, 109, 873 (2008)
- » Effect of Strongly Coupled Plasma on the Spectra of Hydrogenlike Carbon, Aluminium and Argon : S. Bhattacharyya, A. N. Sil, S. Fritzsche, P. K. Mukherjee Eur. Phys. J. D. 46, 1 (2008)
- » Atomic structure under external confinements: Effect of plasma: A. N. Sil, S. Bhattacharyya and P. K. Mukherjee, Int. J. Quantum. Chem., 107, 2708 (2007)
- » Spectroscopy of Sodium atom in liquid helium cluster: A symmetry adopted cluster-configuration interaction (SAC-CI) study: B. Saha, R. Fukuda, H. Nakatsuji and P. K. Mukherjee, Theor. Chem. Acc., 118, 437 (2007)
- » Spectral line shift of alkali atoms in liquid helium: A relativistic density functional approach: J. Anton, P. K. Mukherjee, B. Fricke and S. Fritzsche, J. Phys. B, At. Mol. Opt. Phys, 40, 2453 (2007)
- » Exotic affinities under Debye plasma: S. Bhattacharyya, A. N. Sil, T. K. Mukherjee and P. K. Mukherjee, Phys. Plasmas, 14, 024503, (2007)
- » The resonance levels of the Yukawa potential: Miroslaw Bylicki, Artur Stachow, Jacek Karwowski and Prasanta K. Mukherjee. Chem. Phys. 331, 346 (2007)
- » One photon two electron excitations between doubly excited states of helium: S. Bhattacharyya, A. N. Sil, T. K. Mukherjee and P. K. Mukherjee. J. Chem. Phys., 126, 011104 (2007)
- » Electron affinity of exotic systems under Debye plasma: S. Bhattacharyya, A. N. Sil, T. K. Mukherjee, P. K. Mukherjee and P. Vasu I. J. Q. C., 107, 946 (2007)
- » Stability of H<sub>2</sub><sup>+</sup> molecular ion under Debye plasma: P.K.Mukherjee, S. Fritzsche and B.Fricke. Phys. Lett. A, , 360, 287 (2006)
- » Spectral properties of helium like ions under strongly coupled plasma: A. N. Sil and P. K. Mukherjee, I. J. Q. C., 106, 465 (2006)
- » The Spectral Shift of Sodium in Liquid Helium Environment. A Sequential Monte Carlo time-dependent DFT study: Valdemir Ludwig, Prasanta K. Mukherjee, Kaline Coutinho and Sylvio Canuto, Phys. Rev. A 72, 062714 (2005)

- » Variational calculation for the doubly excited state  $(2p^2)3P_e$  of BeIII: S. Bhattacharyya, A. N. Sil, T. K. Mukherjee and P. K. Mukherjee, *J. Chem. Phys.*, 123, 196102 (2005)
- » The Dipole Polarizability of F<sup>-</sup> in Aqueous Solution: A Sequential Quantum Mechanics/Molecular Mechanics Study: S. Canuto, K. Coutinho and P. K. Mukherjee, *Adv. Quantum Chem.*, 48, 141 (2005)
- » Doubly excited state  $(2p^2)3P_e$  in LiII: A. N. Sil, T. K. Mukherjee and P. K. Mukherjee, *Chem. Phys. Lett.*, 406, 279 (2005)
- » Effect of dense plasma on the spectral properties of hydrogenic ions: A. N. Sil, B. Saha and P. K. Mukherjee; *I. J. Q. C.*, 104, 903 (2005)
- » Atomic spectroscopy under external environments: Effect of plasma and spatial confinement: A. N. Sil, B. Saha and P. K. Mukherjee, *Perspectives in Engineering Optics and Spectroscopy*, Eds. Kehar Singh and V. K. Rastogi, P. 119-121 (2005), Anita Publications, New Delhi, India.
- » Effect of Debye plasma on the doubly excited states of highly stripped ions: A. N. Sil and P. K. Mukherjee *I. J. Q. C.*, 102, 1061(2005)
- » Energy levels of two interacting particles in an anharmonic potential: B. Saha, A. N. Sil, A. K. Das and P. K. Mukherjee; *I. J. Q. C.* 102, 158(2005)
- » Spherically confined two-electron atoms immersed in Debye plasma: B. Saha, P. K. Mukherjee, D. Bielinska-Waz and Jacek Karwowski *J.Q.S.R.T.92*, 1(2005)
- » Precise Variational Calculation for the Doubly Excited State  $(2p^2)3P_e$  of Helium : Tapan K. Mukherjee and Prasanta K. Mukherjee, *Phys. Rev. A*, 69, 064501 (2004)

#### **Publications by Amulya Chandra (A.C.) Roy**

- » Fully degenerate cross section for single ionization of Helium by 1 KeV electron in the eikonal approximation, A.C.Roy , R Dey, (NIM B 267, 2357 - 2360, 2009)
- » Ab initio calculation and excitation of helium by electron impact, A.C.Roy, I. Kada, A. Mansouri, C. Dal Cappello, P.A. Hervieu, (*J.Phys. B* 42, 025201 (2009)
- » Electron impact single ionization of helium with large energy transfer, A.C.Roy R Dey and C. Dal Cappello, (NIM B 266, 242-249 (2008))
- » Simultaneous ionization and excitation of helium by electron impact, A.C.Roy ,R Dey, X.G.Ren and C. Dal Cappello, (NIM B 266, 570-576 (2008)
- » Triply differential cross sections for single ionization of the He by proton target – R Dey and A C Roy, *Phys. Lett. A* (2006)
- » Ejected electron energy distribution in the ionization of atomic hydrogen by C<sup>6+</sup> impact – R Dey and A C Roy, *NIM B* 243, 28 (2006)
- » Multiply differential cross sections for single ionization of He by C<sup>6+</sup> impact – R Dey and A C Roy, *Phys. Lett.A332*: 60 (2004)
- » Projectile angular distribution in the single ionization of He by proton target -R Dey and A C Roy, *NIM B* 225, 207 (2004)

#### **Publications by Siddhartha Roy**

The study of a + <sup>14</sup>C cluster states of <sup>18</sup>O through the resonant breakup reaction <sup>12</sup>C(<sup>18</sup>O, <sup>14</sup>C) at E(<sup>18</sup>O) = 94.5 MeV, S. Ray , S. Adhikari, C. Basu, B. R. Behera, A. K. Mitra, Suresh Kumar, A. Chatterjee, *Int. Jour. Mod. Phys. E* (2009) (in press)

- » Reaction mechanisms in <sup>16</sup>O+<sup>40</sup>Ca at an incident energy of E(<sup>16</sup>O) =86 MeV through inclusive measurements of  $\alpha$  and proton spectra., S. Ray, Chinmay Basu, S. Adhikari, S. K. Ghosh, S. Roy, B. R. Behera, and S. K. Datta, *Phys. Rev. C* 76, No.3 (2007) 034609
- » Reaction mechanisms with loosely bound nuclei <sup>7</sup>Li +<sup>6</sup> Li at forward angles in the incident energy range

14-20 MeV, S. Ray, S. Adhikari, C. Samanta, C. Basu, J. Roy, A. Srivastava, K. Ramachandran, V. Tripathi, K. Mahata, V. Jha, P. Shukla, S. Rathi, M. Biswas, P. Roy Chowdhury, A. Chatterjee and S. Kailas, *Phys. Rev. C* 74, 024602 (2006)

» Study of Statistical Emissions in  $(28)\text{S} + (\text{nat})\text{Si}$  and  $(28)\text{Si} + (27)\text{Al}$  Reactions at 4 – 5 MeV/A incident energies – S Ray, C B Basu, S Adhikari, S K Ghosh, P Basu, B R Behera and S K Dutta – *Intl Jour. Mod. Phys. E14* (2005) p. 1063

» Entrance channel dependence in compound nuclear reactions in loosely bound nuclei – S Ray, S Adhikari, C Samanta, C Basu, A Chatterjee, S Kailas – *Eur. Phys. J A25 s01* (2005) p. 299

» Observation of pre-equilibrium alpha particles at extreme backward angles from  $(28)\text{Si} + (\text{nat})\text{Si}$  and  $(28)\text{Si} + (27)\text{Al}$  reactions at  $E < 5$  MeV/A – S Ray, C Basu, S Adhikari, P Basu, B R Behera, S K Ghosh, S K Datta – *Eur. Phys. J A25 s01* (2005) p. 277

## 1.9.2.2. School of Indian Heritage

### 1.9.2.2.1. Department of Sanskrit

The Department of Sanskrit publishes two journals: (i) *Pratibhalokah* in which university and college students/scholars contribute and (ii) *Prajnalokah* in which faculty and senior scholars/professors of universities contribute research articles. Both these journals are fully in Sanskrit.

### 1.9.2.2.2. School of Indian Heritage—General

The Vice Chancellor, Swami Atmapriyananda, was invited to write an article in the volume *Higher Education for the World 2008* published by GUNI, acronym for Global University Network of Innovation, a European-based organization with a large network of Universities across the globe committed to social service.

On behalf of the GUNI Editorial Team, Yazmin Cruz wrote to Swami Atmapriyananda as follows:

“I am pleased to contact you on behalf of the GUNI Editorial Team in order to invite you to take part in the authorship of *Higher Education in the World 2008: New challenges, changing roles: Steering a course for human and social development*. The report will be the third issue of the GUNI series on the Social Commitment of Universities to be published in English by Palgrave and in Spanish by Mundi-Prensa. In case you did not have access to the two earlier reports, we are attaching the tables of contents with the names of the authors so that you can have an idea about the quality of the reports, which have been very well reviewed internationally. After months of research, Prof. Bikas C. Sanyal suggested you as one of the most well-known scholars on this theme, and for this reason we would very much appreciate your collaboration in this project by writing a paper on *Ethics and values in learning and teaching: challenges for the human and social development role of higher education*. Hereby, we enclose for your attention a formal invitation from the President of GUNI and Rector of the Technical University of Catalonia, Prof. Antoni Giró Roca. You will also receive this letter by post. Additionally, you will find a letter from the Executive Director of GUNI, Mrs. Cristina Escrigas, and the Guest Editor, Dr. Peter Taylor from the Institute of Development Studies at the University of Sussex in the United Kingdom, giving you further details on the deadlines and conditions. Attached you will also find relevant information on GUNI. We hope very much that you will join with us and a number of other highly respected authors whom we have invited to participate in this challenging project. We are open also to any suggestions that you may have regarding the paper we have proposed.

We look forward to hearing from you soon. Best Regards,



Yazmín Cruz”

Swami Atmapriyananda’s article on the subject suggested above by GUNI was published in the volume Higher Education in the World 2008: New challenges, changing roles: Steering a course for human and social development.

### 1.9.2.3. Ranchi Faculty Centre

Papers/Articles published by the following teachers:

#### **Arunava Sengupta**

- » Implementation of Integrated Pest Management strategy for the control of Eggplant Shoot and Fruit Borer, Proceedings of the National Seminar held at IIVR in October 2005
- » Production of *Trichoderma viride* and study of its effective growth and viability under various carrier material composition. *Journal of Interacademia*, 12(3):301 -307, 2008, Kalyani, West Bengal
- » Integrated Organic Farming System Model for Marginal and Small Farmers of Ranchi, District of Jharkhand State (India). Submitted for publication in *Environment and Ecology*.

#### **Dipankar Chatterjee**

- » “Some Aspects of Pristine Beauty of Pedong: Prospective place for Ethno-EcoTourism” in *Humanity 2* (1). *Journal of the Department of Anthropology, Vivekananda College for Women, Kolkata*, 2005
- » “The Performance related to Natural Resource Utilization and Management: The case of the Dhibar of Jharkhand” in *Health, Environment, Development and Other Essays: Anthropological Perspectives.*(Ed. By BuddhadebChaudhuri and Sumita Chaudhuri) Vol.5, 2007. Inter-India Publications: New Delhi
- » “Indigenous Performance related to Resource Utilization and Management: The case of the Dhibar of Jharkhand” in *Man and Life*, July-December 2007
- » “Cognition of Time and Space in a Transhumant community: The Case of the Gujars of Himachal Pradesh”, *Journal of the Department of Anthropology, The University of Calcutta*, Vol. 10 & 11 (Combined), 2007
- » “Domestic Tourism among the Urban Bengalis: A Shared Observation of Culture” in *Tourism: An International Interdisciplinary Journal*, 56(1): 75-91, 2008, published from Zagreb, Croatia.
- » “Structure and Performance of Small-Scale Economies of the Bhoksa:” in R.M. Sarkar (Ed) *Primitive Tribal Groups in India: Tradition, Development and Transformation*. Serials Publications: New Delhi. 2008.
- » “Economic life of the Bhoksa Tribe: Tribal economy in the Theoretical Milieu”, Accepted for publication in *South Asian Anthropologist*, September 2009
- » “Whether Only Money Matters: Elucidating the Components of the Gujars Being Marginalized”, Accepted for publication in the volume to be edited by Prof. Ranjana Ray, Emeritus Professor, Dept of Anthropology, University of Calcutta
- » *Space and Identity: A Study on Tradition and Change of the Gujars of Himachal Pradesh*, submitted for publication in *Social Anthropology* published by European Association for Social Anthropologist (EASA, Netherlands)
- » *Pedong of West Bengal: In Search of Potential for Ethno-Eco Tourism*. Submitted for publication in *Environment and Ecology*.

#### **Dr. Avijit Kumar (A.K.) Dutta**

- » Dutta, A.K.; Hazra, P. and Pandit, M.K. (2006). Determination of selection indices for pumpkin. *The Horticultural Journal*. 19(3): 298-300.
- » Pandit, M.K.; Hazra P. and Dutta, A.K. (2006). Study on heterosis for yield and quality characters of pumpkin (*Cucurbita moschata* Duch. ex. Poir). In: RamHH, Singh HP (Eds) *Cucurbits Breeding and Production Technology, Proceedings of the National Seminar on Cucurbits*, College of Agriculture, Pantnagar, Uttaranchal, India, pp. 319-327
- » Hazra, P.; Mandal, A. K.; Dutta, A.K. and Ram, H. H. (2007). Breeding pumpkin for fruit yield and other characters. *International Journal of Plant Breeding*. 1(1): 51-64
- » Hazra, P.; Mandal, A. K.; Dutta, A. K., Sikdar, D. and Pandit, M. K. (2007). Breeding pumpkin (*Cucurbita moschata* Duch. ex Poir.) for high yield and carotene content. In: M.L.Chadha et al. (Eds) *Proc. 1st Intern. Conf. on Indigenous Veg. and legumes. Acta Horticulturae*, 752: 431-435
- » Hazra, P.; S.H. Ansary; A. K. Dutta; E. Balacheva and B. Atanassova (2009). Breeding tomato tolerant to high temperature stress. 4th Balkan Symposium for Vegetables and Potato, 9-12 September, 2008, Plovdiv, Bulgaria. *Acta Horticulturae*, 830: 241-248
- » Hazra, P. and A. K. Dutta (2009). Inheritance of parthenocarpy in 'Oregon Pride' tomato under short winter condition of Eastern India. *International Journal of Vegetable Science*, (In press).
- » Hazra, P. and A. K. Dutta (2009). Expression of parthenocarpy in tomato in different environment and pollination treatment under Eastern Indian conditions. *International Journal of Vegetable Science*, (In press).
- » Hazra, P. and A. K. Dutta (2009). Manifestation of parthenocarpy in 'Oregon Pride' tomato (*Solanum lycopersicum*) through alteration of the gibberellin and auxin content in the ovary. *Acta Physiologia Plantarum*, (In press).

#### 1.9.2.4. Narendrapur Faculty Centre

##### Publications by the following faculty members:

##### Dr. Rupak Goswami

##### Research papers:

- » Basu, D., Banerjee, S., Goswami, R., Biswas, D. (2006). Participatory Weed Assessment for Promoting Precision and Sustainability. *Journal of Crop and Weed*. Jan. 2006.
- » Basu, D., Banerjee, S., Goswami, R. (2006). Problems and prospects of on-line education: rethinking distance education in a changing world. *Indian Journal of Adult Education*.
- » Goswami, R., Basu, D., Banerjee, S., Mazumder, D. (2008). Effect of livelihoods on the stability of information networks: Initial hints from different agricultural production systems of West Bengal, India. *Psychological Research Journal* (Vol. 31, forthcoming).
- » Basu, D., Banerjee, S., Goswami, R. (2009). Vegetable cultivation on ail (bund): a successful farmer-led technology transfer. *Acta Horticulturae* (ISHS), 809:155-160. [www.actahort.org/books/809/809\\_13.htm](http://www.actahort.org/books/809/809_13.htm)
- » Basu, D., Banerjee, S., Goswami, R. (2009). Farmers' knowledge management in banana cultivation in a village of West Bengal, India: a reflection of farmer managed technology adaptation and transfer in horticulture. *Acta Horticulturae* (ISHS), 832:49-56 [www.actahort.org/books/832/832\\_6.htm](http://www.actahort.org/books/832/832_6.htm)
- » Das, A., Basu, D., Goswami, R. (2009). Targeting extension intervention for promotion of sunflower productivity in coastal saline zone of West Bengal. *Journal of Crop and Weed*. 5(1):122-126.
- » Goswami, R. and Basu, D. (2009) Does information network affect technology diffusion? A study on the spread of banana and guava cultivation among farmers of Nadia district, West Bengal, India. (Accepted for publication: *Research Journal of Agriculture and Biological Sciences*)

**Book Chapters:**

- » Basu, D., Biswas, D., Goswami, R. (2004) Upward and Downward Mobility in Well-being. In: Mukherjee, N. and Rupa, D. (eds.) Learning to Share: Experiences and Reflections on Participatory Approaches. Concept Publishing Company, New Delhi.
- » Basu, D. and Goswami, R. (2004) Participation in development: concept and Strategies. In: M. M. Adhikary, A. Sarkar, S. K. Acharya and D. Basu (eds.) Participatory Planning and Project Management in Extension Sciences. Agrotec Publishing Academy, New Delhi.
- » Basu, D., Biswas, D., Goswami, R. (2004) Applying TQM concepts to training/ teaching organization. In: M. M. Adhikari, S. K. Acharya and D. Basu (eds.) Study material of Winter School on "Innovative Extension Management for Value Added Agriculture with Quality Issues", November 17- December 18, BCKV, Kalyani, West Bengal, India.
- » Basu, D., Biswas, D., Goswami, R. (2006) Human dimensions in natural resource management. In: M. M. Adhikary, S. K. Acharya and D. Basu (eds.) Extension strategy on natural resource management, Agrotec Publishing Academy, New Delhi.
- » Basu, D., Biswas, D., Goswami, R. (2006) Co-management in natural resources: concepts and approaches. In: M. M. Adhikary, S. K. Acharya and D. Basu (eds.) Extension strategy on natural resource management, Agrotec Publishing Academy, New Delhi.
- » Basu, D., Biswas, D., Goswami, R. (2006) Community-based natural resource management. In: M. M. Adhikary, S. K. Acharya and D. Basu (eds.) Extension strategy on natural resource management, Agrotec Publishing Academy, New Delhi.
- » Basu, D., Goswami, R., Biswas, D. (2006) Gender dimensions in natural resource management. In: M. M. Adhikary, S. K. Acharya and D. Basu (eds.) Extension strategy on natural resource management, Agrotec Publishing Academy, New Delhi.
- » Basu, D., Goswami, R., Biswas, D. (2006) Participation in development: concept and strategy for natural resource management. In: M. M. Adhikary, S. K. Acharya and D. Basu (eds.) Extension strategy on natural resource management, Agrotec Publishing Academy, New Delhi.
- » Basu, D. and Goswami, R. (2006) Indigenous technical knowledge and its role in natural resource management. In: M. M. Adhikary, S. K. Acharya and D. Basu (eds.) Extension strategy on natural resource management, Agrotec Publishing Academy, New Delhi.
- » Goswami, R. and Basu, D. (2008) What information is needed to sustain rural livelihoods? Conceptualising farmers' communication within the sustainable livelihoods (SL) framework. In The Livelihoods School (ed) Agriculture based Livelihood Promotion. BASIX : Kolkata. pp. 73-85.
- » Goswami, R.(nd) Extension for environmentally sound Agriculture: Basic theories and agenda for action. Agro-bios. Jodhpur, Kolkata.

**Web Publication**

- » Goswami, R. and Basu, D. (2006) Network Consideration in Adoption Study. [www.nrsp.org/database/output\\_view.asp?outputID=3137](http://www.nrsp.org/database/output_view.asp?outputID=3137)
- » Goswami, R. and Sarkar, A. (2007) Interpersonal communication pattern of farmers through key communicators regarding some selected gram panchayat activities. [www.nrsp.org/database/output\\_view.asp?outputID=3270](http://www.nrsp.org/database/output_view.asp?outputID=3270)
- » Goswami, R. and Basu, D. (2006) Effect of Livelihoods on the Stability of Information Networks: Initial Hints from Different Agricultural Production Systems of West Bengal, India. [www.nrsp.org/database/output\\_view.asp?outputID=3870](http://www.nrsp.org/database/output_view.asp?outputID=3870)
- » Basu, D., Goswami, R., Banerjee, S. (2006) Micro Farming Situation Observed Through Manual Discriminant Analysis. [www.nrsp.org/database/output\\_view.asp?outputID=3826](http://www.nrsp.org/database/output_view.asp?outputID=3826)

- » Basu, D., Goswami, R. (2007) Scientific and traditional knowledge - the old issue that never ages :A note for the beginners. [www.nrsp.org/database/output\\_view.asp?outputID=3271](http://www.nrsp.org/database/output_view.asp?outputID=3271)
- » Basu, D., Goswami, R., Banerjee, S. (2006) Farmer innovators: the change agent in pro-poor crop research and extension. [www.nrsp.org/database/output\\_view.asp?outputID=3825](http://www.nrsp.org/database/output_view.asp?outputID=3825)
- » Goswami, R., Sarkar, A. (2008). Interpersonal communication pattern of farmers through key communicators regarding some selected Gram Panchayat activities. [www.infobridge.org/asp/output\\_view.asp?outputID=3270](http://www.infobridge.org/asp/output_view.asp?outputID=3270)
- » Basu, D., Goswami, R. (2007). Scientific and Traditional Knowledge: the Agenda for 'Mutual Validation'. [www.infobridge.org/asp/output\\_view.asp?outputID=3271](http://www.infobridge.org/asp/output_view.asp?outputID=3271)

### **Dr. Md. Nasim Ali**

#### **Research papers:**

- » Partha Das, Md. Nasim Ali and H. K. Sarkar. (2004). Genetical studies on roots in Bread Wheat [*Triticum aestivum* (L.)]. *J. Interacad.*, 8 (2): 166-168.
- » Sandip Senapati, Md. Nasim Ali and B. G. Sasmal. (2005). Genetic divergence in tossa jute (*Corchorus olitorius* L.). *Environment and Ecology*, 23 (3): 668-670.
- » K. Chattopadhyay, Md. Nasim Ali, H. K. Sarkar, N. Mandal and S. Bhattacharyya. (2005). Diversity analysis by RAPD and ISSR markers among the selected mungbean [*Vigna radiata* (L.) Wilczek] genotypes. *Indian J. Genet.*, 65 (3): 173-175.
- » Sandip Senapati, Md. Nasim Ali and B.G. Sasmal. (2006). Genetic variability, heritability and genetic advance in *Corchorus* sp. *Environment and Ecology*, 24S (1): 1-3.
- » Monalisa Manna, Md. Nasim Ali and B. G. Sasmal. (2006). Variability, correlation and path coefficient analysis in some important traits of low land rice. *Crop Research*, 31 (1): 153-156.
- » Md. Nasim Ali and B.G. Sasmal. (2006). Association of seed yield and its components in segregating population of tossa jute (*Corchorus olitorius*). *Agricultural Science Digest*, 26 (3): 206-208.
- » S. S. Aich, Md. Nasim Ali and B. G. Sasmal. (2006). Heterosis and combining ability in indica rice. *Mysore J. Agric. Sci.*, 40 (2): 199-203.
- » Md. Nasim Ali, K. Chattopadhyay, H. K. Sarkar, N. Mandal and S. Bhattacharyya. (2007). Diversity among selected blackgram accessions on the basis of RAPD and ISSR markers. *Indian J. Genet.*, 67(2): 171-172.
- » Sandip Senapati, Md. Nasim Ali and B. G. Sasmal. (2007). Character association and path coefficient analysis in jute (*Corchorus* sp). *Advances in Plant Science*. 20(1): 29-32.
- » S. S. Aich, Hossain Ali Mandal, Md. Nasim Ali and B. G. Sasmal. (2007). Development of different grades of density grain during ripening phases in indica rice. *Environment and Ecology*. 25 (1): 117-119.
- » Moloy Roy, Soumi Banerjee, Md. Nasim Ali and H. K. Sarkar. (2007). Diversity analysis in greengram [*Vigna radiata* (L.) Wilczek] in different seasons. *Environment and Ecology*, 25S (2): 431-433.
- » Debashis Mandal, Sanjay Kumar Dutta Ray and Md. Nasim Ali. (2007). In vitro multiple shoot induction in selected polyembryonic *Citrus* sp. *J. Botan. Soc., Beng.*, 61 (1): 33-37
- » Md. Nasim Ali, Suparna Gupta, Somnath Bhattacharyya and H. K. Sarkar (2008). Evaluation of Blackgram *Vigna mungo* (L.) Hepper. Germplasm using multivariate Analysis. *Environment & Ecology*, 26 (2A): 943-945.
- » S. S. Aich, Md. N. Ali and B. G. Sasmal. (2008). Variability and path analysis of panicle character in aman rice cultivars. *Agric. Biol. Res.*, 24 (1): 64-69
- » Suparna Gupta, Md. Nasim Ali H. K. Sarkar (2008). Heterosis study for root characters in bread wheat [*Triticum aestivum* (L.) Thell] following embryo culture. *Agric. Biol. Res.*, 24 (2): 149-156
- » S. S. Aich, Md. N. Ali and B. G. Sasmal. (2008). Genetic divergence analysis of panicle characters of aman rice (*Oryza sativa* L.), *Mysore J. Agric. Sci.*, 42 (3): 562-564 .

- » Suparna Gupta, Md. Nasim Ali, Somnath Bhattacharyya, H. K. Sarkar. (2009). Peroxidase diversity in hexaploid wheat [*Triticum aestivum* (L.) Thell.], *Environment & Ecology*, 27 (1A): 375-377.
- » Souvagya Kumar Mohanty, Suparna Gupta, Md. Nasim Ali and H. K. Sarkar. (2009). Study of excised roots in rice (*Oryza sativa* L.). *Ad. Plant Sci.*,22 (II): 381-382.
- » H. K. Sarkar, Sujaya Das (Dewangee) , Md. Nasim Ali and Suparna Gupta. (2009). Efficacy of In vitro root study technique in hexaploid wheat [*Triticum aestivum* (L.) Thell.]-A problem and prospect . *Ad. Plant Sci.*,22 (II): 367-369

**Book Chapters:**

- » Md. Nasim Ali. (nd). Transgenic crops. Environmental Concern. Agro-bios : Jodhpur, Kolkata.

**1.9.2.5. Coimbatore Faculty Centre**

**1.9.2.5.1. Faculty of ‘Disability Management and Special Education’**

The faculty has published the following books:

Year	Description of Publication	Author
1	Promoting Inclusive Education for children with disabilities	Dr. M.N.G.Mani
2	Academic and Administrative Guidelines for implementing	
3	Teacher Training hand book in the area of visual Impairment SSA in the case of children with disabilities	SriA. Sundaravadivelu & R.Vijayakumar
4	Role of Parents and family in creating a learning environment for hearing impaired children (Tamil)	
5	Community based rehabilitation (Tamil)	Sri S Sundaramoorthy R Vijayakumar
6	Preparation of Braille text books for blind children (Tamil)	Sri M.P.Kandasamy & M.Subramaniam
7	Assessment of low vision children (Tamil)	Dr.M.N.G.Mani and Sri P.Srinivasan
8	Sign Language (Tamil)	Sri M.P.Jaiganesh
9	Academic and Administrative Guidelines for implementing SSA in the case of children with disabilities (Tamil)	Dr. M.N.G. Mani
10	Inclusive Education (Tamil)	Dr.M.N.G.Mani
11	Role of Parents and family in creating a learning environment for Visually impaired children (Tamil)	Smt.R.Sathyapriya
12	Locomotor Disability (Tamil)	Sri S.Kuppuraj
13	Welfare and Educational Development of mentally retarded children (Tamil)	Ms.I.Prabha

Year	Description of Publication	Author
14	Instructions for Teacher Preparation in Tamil Nadu Braille	Dr.M.N.G.Mani
15	Education of Children with Learning Disabilities	Dr.M.N.G.Mani

**1.9.2.5.2. Faculty of ‘General & Adapted Physical Education and Yoga’**

The faculty has published their publications in conferences and seminars:

Sl.No	Year	Description of Publication	Author
I: Publication in conferences/seminars:			
1	2007	Presented a paper on “Metabolic syndrome in yoga and naturopathy” organized by Alagappa University , Karaikudi 18 <sup>th</sup> & 19 <sup>th</sup> dec 2007.	Sri M.Ganesh Kumar
2		Presented a paper on “Innovative concepts of inter disciplinary approaches towards physical education” national seminar organized by Alagappa University, Karaikudi on 14 sep 2007.	
3		Presented a paper on “Innovative concepts of inter disciplinary approaches towards physical education” national seminar organized by Alagappa University, Karaikudi on 14 sep 2007.	
4	2008	Presented a paper on International conference on “Metabolic syndrome in yoga and naturopathy” organized by Alagappa university, Karaikudi.	Dr. E.Amudhan
5	2008	Presented a paper on “Importance of Ice therapy in Sports Injuries” organized by VIT University, Vellore and Tamil Nadu Physical Education andSports University, Chennai on 26 <sup>th</sup> and 27 <sup>th</sup> March,2008.	
6	2008	Presented a paper on “Effect of sports vision training for enhancing visual skills of basketball players” organized by VIT, Vellore 4 <sup>th</sup> & 5 <sup>th</sup> , 2008.	Sri M.Ganesh Kumar
7	2008	Presented a paper on “Tamizhar vilayattukkalum manitha membadum” organized by Tamilnadu Physical Education & Sports University, Chennai.	Sri S.Sivasankar
8	2008	Presented a paper on “The technology used in determining Gender in Sports” organized by VIT, Vellore 4 <sup>th</sup> & 5 <sup>th</sup> , 2008.	Sri S.Kalidasan
9	2008	Published on 2008 November issue ,Articleentitled “Analysis of Goal Scoring Pattern at 2007-2008 inter University Football Tournament “ , in voice of Sports Bi Annual Research journal on physical education and sports ,publishedby under the University of Callicut.	Sri O.Jiten Singh

Sl.No	Year	Description of Publication	Author
10	2008	Presented a paper on yoga and self-realization in the National Seminar on healthy ageing through yoga therapeutic means and sports organized by Alagappa University, Karaikudi on 18th September, 2008.	Sri M.Srinivasan
11	2009	Presented a paper on "Importance of RICE therapy in sports injuries" – International seminar organized by VIT University, Vellore and Tamil Nadu Physical Education and Sports University.	Dr. E.Amudhan
12	2009	Presented a paper on "Yoga and holistic health" organized by Tamil Nadu Physical Education and Sports University, Chennai	
13	2009	Presented a paper on "Health and fitness through yoga" – national seminar organized by Bharathidasan University.	
14	2009	Presented a paper on "Effect of proprioceptive training on selected motor components of children" organized by Bharathidasan University, 21 Mar 2009	Sri M.Ganesh Kumar
15	2009	Presented a paper on "Effect of proprioceptive training on selected motor components of children" organized by Bharathidasan University, on 21 mar 2009.	
16	2009	Presented a paper on "Effect of Yogic practices on selected Physiological variables of daily wages". Organized by Bharathidasan University on 21 <sup>st</sup> march, 2009.	Sri S.Sivasankar
17	2009	Presented a paper on "Innovative approaches of excellence in sports" Organized by Kongunadu arts and science college, Coimbatore.	
18	2009	Presented a paper on "Effect of Yogic practices on selected Physiological variables of daily wages". Organized by Bharathidasan University on 21 <sup>st</sup> march, 2009.	Sri S.Kalidasan
19	2009	Published on 2009 January Issue Article entitled "Analysis of Heading at 2007-2008 South Zone Inter University football tournaments. Bi Annual research journal on Physical Education and Sports Science, a publication of Maruthi College of Physical education, Tamil Nadu.	
20	2009	Published on 2009 November Issue Article entitled "Analysis of goal scoring pattern at 2003 South Zone inter University football tournament. Bi annual Indian journal of yoga exercise and sports science and physical education, published Viswa Varati University, Santhiniketan, West Bengal	

Sl.No	Year	Description of Publication	Author
21	2009	Article Published on atharavuarra anathai kulanthaikalukku atharavu tharuma vilayattu sangam in the Vilayattu Ulagam Monthly Magazine on August 2009.	Sri M.Srinivasan
22	2009	Article Published on vidhimuraikalai pinparrum ore thurai vilayattu thurai in the Vilayattu Ulagam Monthly Magazine on September 2009.	
23	2009	Article Published on vidhimuraikalai pinparrum ore thurai vilayattu thurai in the Vilayattu Ulagam Monthly Magazine on October 2009.	
24	2009	Presented a paper on effect of flexibility on the performance of aging and inactivity in the National Seminar on current trends for fitness development organized by Alagappa University, Karaikudi on 2nd March, 2009.	

We have but one method of acquiring knowledge. From the lowest man to the highest Yogi, all have to use the same method; and that method is what is called concentration. The chemist who works in his laboratory concentrates all the powers of his mind, brings them into one focus, and throws them on the elements; and the elements stand analysed, and thus his knowledge comes. The astronomer has also concentrated the powers of his mind and brought them into one focus; and he throws them on to objects through his telescope; and stars and systems roll forward and give up their secrets to him. So it is in every case -- with the professor in his chair, the student with his book -- with every man who is working to know. You are hearing me, and if my words interest you, your mind will become concentrated on them; and then suppose a clock strikes, you will not hear it, on account of this concentration; and the more you are able to concentrate your mind, the better you will understand me; and the more I concentrate my love and powers, the better I shall be able to give expression to what I want to convey to you. The more this power of concentration, the more knowledge is acquired, because this is the one and only method of acquiring knowledge. Even the lowest shoeblick, if he gives more concentration, will black shoes better; the cook with concentration will cook a meal all the better. In making money, or in worshipping God, or in doing anything, the stronger the power of concentration, the better will that thing be done. This is the one call, the one knock, which opens the gates of nature, and lets out floods of light. This, the power of concentration, is the only key to the treasure-house of knowledge.

**Swami Vivekananda**