

# APPENDIX 2

## **Details of the University activities since inception (2005-10) as submitted to Review Committee of the University Grants Commission in November 2009**

Note: The details of statistics and data given hereinbelow may overlap to some or occasionally to a great extent with those given above as part of the MHRD Review Committee Report, but nevertheless, these are reproduced below as it was submitted by us to UGC, and which was carefully examined and returned to us by UGC along with the Review Committee Report and recommendations. This is in the interest of transparency and completeness. At several places, the data and details have been updated to include the occurrences and events after the UGC Committee visit.

### **Name of the Deemed-to-be-University:**

Ramakrishna Mission Vivekananda University  
(formerly known as '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)  
P.O. Belur Math, Dist. Howrah  
West Bengal  
Pin Code: 711202  
(Phone: 033-26549999; fax: 033-26544640;  
Email: rkmveri@gmail.com; vivekananda.university@gmail.com)

### **Introduction:**

Under the directions of the Ministry of HRD, UGC reviewed the functioning of all institutions declared by Government of India as deemed-to-be-universities under Section 3 of the UGC Act, 1956, with the help of Expert Committees. The Chairman, UGC, has constituted an Expert Committee whose composition is given below, to review the functioning of Ramakrishna Mission Vivekananda Educational and Research Institute, P.O. Belur Math, Dist Howrah, West Bengal, an institution deemed-to-be-university, vide UGC letter D.O.No.6-96/2009 (CPP-I) dated 27 October 2009 from Dr KP Singh, Joint Secretary, University Grants Commission, New Delhi, requesting that the review of the deemed university be conducted at the earliest, preferably within 10-12 days, and enclosing therewith the following documents:

- Gazette notification dated 5 January 2005 declaring the institute as deemed-to-be-university,
- Gazette notification dated 20 February 2007 declaring the inclusion of three 'off-campus' centres within the ambit of the above deemed university,

- List of documents required as annexure, Terms of Reference of the Committee and proforma for report writing by the Expert Committee,
- Report of the Expert Committee which initially recommended conferment of the deemed university status to this institute,
- Report of the Expert Committees which recommended the inclusion of the 'off-campus' centres under the ambit of the deemed university,
- Composition of the Expert Committee,
- Copy of the proforma already sent to the deemed university for compilation of the information for use of the Expert Committee.

In compliance thereof, the Expert Committee, comprising the following members, coordinated by the Member-Secretary, Dr Ratnabali Banerjee, Joint Secretary, UGC Eastern Regional Office, Kolkata, visited the institute deemed-to-be-university at its main campus (headquarters) at Belur Math, Howrah, West Bengal, as well the following 'off-campus' centres:

- Ramakrishna Mission Divyayan Krishi Vigyan Kendra, Ranchi, Jharkhand, for the Faculty of 'Integrated Rural and Tribal Development'
- Ramakrishna Mission Centre at Narendrapur, Kolkata, West Bengal, for the Faculty of 'Integrated Rural Development and Management'
- Ramakrishna Mission Vivekananda Research Centre at Swami Vivekananda's Ancestral House, Kolkata, West Bengal, for doctoral and post-doctoral research
- International Centre for Human Resource Development for the Disabled, Ramakrishna Mission Vidyalaya, Coimbatore, Tamil Nadu

The visit began with the 'Off-campus' Centre at Ranchi, Jharkhand, and the Committee members arrived at the Ranchi Centre on 12 November 2009.

- The dates of the visit of the Expert Committee to the above 'off-campus' Faculty Centres and the Belur Main Campus were 13, 14, 15 and 16 November 2009.

### Composition of the Committee:

The composition of the Expert Committee constituted by the UGC Chairman to review the functioning of the deemed-to-be-university (its main campus at the headquarters at Belur Math and the three approved 'off-campus' centres mentioned above) is as follows:

- Prof. Kutumba Shastri, Vice Chancellor, Sampurnanand Sanskrit University, Varanasi (Chairman)
- Prof. B.S. Jain, former Professor of Mathematics, Delhi University, Delhi
- Prof. Manjari Chaudhuri, Head of the Department of Bengali and Dean of the Faculty of Arts & Commerce, Tripura University, Tripura
- Prof. B.A. Chopade, Director, Institute of Bio-informatics and Bio-technology, University of Pune, Pune
- Prof. Trilochan Shastri, Dean (Academic), Indian Institute of Management, Bengaluru, Karnataka
- Prof. P.K. Pande, Department of Yoga Science, L.B. National Institute of Physical Education, Gwalior, Madhya Pradesh
- Dr Ratnabali Banerjee, Joint Secretary, UGC, Eastern Regional Office, Kolkata (Member-Secretary)

The following information and the Report is based on the inputs received by the Expert Committee members from the University in the UGC-prescribed proforma (that had been sent to the University authorities sufficiently in advance by UGC) and the inputs received in the course of the Expert Committee Visit from the interactions with the Vice Chancellor, faculty, staff, students and others associated with the University.

### **Background of the Deemed-to-be-University:**

Ramakrishna Mission Vivekananda Educational and Research Institute is an institution declared by Government of India as a deemed-to-be-university, is a multi-campus University with its Headquarters at Belur Math, which is the same as the Headquarters of the well-known worldwide philanthropic and charitable organization 'Ramakrishna Mission'. Ramakrishna Mission has been engaged in serving humankind without distinction of caste, creed, colour, race, nationality, gender or any other distinction, in the fields of education, health, relief & rehabilitation etc. for more than a century, since its inception as early as 1897 by Swami Vivekananda. Under the aegis of Ramakrishna Mission, the present new University was started in the year 2005, the Government of India declaring the institute as a deemed-to-be-university by a Notification dated 5 January 2005. Swami Vivekananda himself had prophesied just two days before passing away that Belur Math will become a great University. The present University is a first step in the actualization of this prophetic utterance of this great son of India, and has chosen as its 'thrust areas' those areas which are in a sense 'gap areas' in that these areas scarcely receive attention in any of the conventional universities in India and, further, these areas are meant to directly benefit the underprivileged, and the rural/tribal population of India. Ramakrishna Mission having more than hundred branch-centres all over India, this University was conceived to operate through these various branch-centres which have developed the necessary infrastructure and the expertise in specific areas for over several decades, using them as 'off-campus' centres of the University. The following 'thrust areas' have been initially chosen by the deemed university:

- Disability Management and Special Education
- Integrated Rural and Tribal Development
- Indian Spiritual and Cultural Heritage including Value Education
- Fundamental Science Education and Research
- Environment and Disaster Management

Of the above thrust areas, the first four have already been taken up and courses/programmes in these areas are being conducted at the Belur Main campus as well as the 'off-campus' centres mentioned above. Courses/programmes in thrust area (5) will be started soon.

Under thrust area (1) above, teachers' training programmes at the graduate, postgraduate and research levels in special education, adapted physical education and yoga are being run at the Coimbatore Centre.

Under thrust area (2) above, two-year M.Sc. and five-year integrated M.Sc. programmes are being conducted at the Ranchi and Narendrapur Centres.

Under thrust area (3) above, diploma courses are being conducted at the Belur Main campus.

Under thrust area (4) above, M.Sc., M.Phil., and Ph.D. programmes are being run at the Belur Main campus and Vivekananda Research Centre. We are told that M.Phil. and Ph.D. programmes are being contemplated under thrust area (5) at the Narendrapur Centre and Belur Main campus.

## 2. Inspection Report

### 2.1. Name and address of the Deemed University:

Ramakrishna Mission Vivekananda Educational and Research Institute (Declared as Deemed-to-be-University by Government of India under Section 3 of the UGC Act, 1956), P.O. Belur Math, District Howrah 711202, West Bengal

### 2.2. Headquarters of the Deemed University (with full address, phone numbers, e-mail etc):

Belur Math Main Campus in the District of Howrah, State of West Bengal, Pin Code: 711202, phone number: 033-26549999 (landline), 09830216636 (mobile—Vice Chancellor), fax: 26544640, e-mail: [rkmveri@gmail.com](mailto:rkmveri@gmail.com), [vivekananda.university@gmail.com](mailto:vivekananda.university@gmail.com), [atmapriyananda@gmail.com](mailto:atmapriyananda@gmail.com) (Vice Chancellor's personal email ID)

### 2.3. Name of the Society/Trust promoting the University:

Ramakrishna Mission with headquarters at Belur Math in the district of Howrah, State of West Bengal

- » Whether the Deemed University itself is registered as a Society/Trust: The Deemed University has the same registration as Ramakrishna Mission, the parent sponsoring society, the clause requiring separate registration having been waived as a special case by the UGC (vide UGC letter D.O.No.F.6-41/2001 (CPP-I) dated 3 January 2002 from Mr. Gurcharan Singh, Joint Secretary, UGC, New Delhi addressed to Swami Mumukshananda, Convener, Proposal for Vivekananda University Committee, Ramakrishna Mission, PO Belur Math, Dist Howrah—the above letter has been enclosed as Annexure II to Item No.7.13 in the bunch of documents sent to the Member-Secretary of the Expert Committee)
- » Whether all the movable and immovable assets are registered in the name of the deemed university: Yes, subject to the separate registration exemption clause as stated above
- » Whether the MoA/Rules approved and as per UGC norms: Yes (Copy of the MoA/Rules attached)
- » Whether Corpus Fund maintained as per UGC norms: Yes (Copy of FDR as corpus fund attached)

### 2.4. 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.

### 2.5. Objectives of the Deemed University as laid down in MoA:

The objectives for which the University is established are derived essentially from the educational objectives of the Ramakrishna Mission itself, under whose registration and aegis the Institute is being started, to actualize Swami Vivekananda's educational vision of 'man making' and 'character building' to produce men and women of all-round personalities with harmonious development of heart, head and hand—the emotional, intellectual and practical faculties inherent in a person—through imparting holistic education and training that would integrate and synthesize the best elements of the East and West. Being under the aegis of Ramakrishna Mission, a worldwide movement silently serving in various spheres for over a century, the Institute should be contemplated as a movement rather than merely an academic institution, so that the students educated and trained

in it should not merely be academicians and scholars, however brilliant, but participants in the enormous task of nation building—rebuilding India through building of individual character, cast in the mould of harmony and synthesis of knowledge, love and work—head, heart and hand: “brains to conceive, heart to feel and hands to work” in Swami Vivekananda’s words.

More specifically, therefore, some of the objectives of the University are:

- » to impart, promote, undertake and provide for instruction, training and the study of arts, philosophy, sciences, social sciences, etc., or any other branches of learning as it may deem fit for cultivation and dissemination of knowledge;
- » to undertake, promote and provide for research and for the advancement of knowledge;
- » to impart instruction and training particularly in areas having special bearing on the upliftment of the underprivileged sections of the society;
- » to provide instruction and courses meant for marginalized and weaker sections of society, the aim here being to give them the education and training necessary to help them ‘stand on their own feet’ as envisaged by Swami Vivekananda;
- » to strive for the inculcation of higher human values in both youth and adults, with a view to raising the quality of people of the country as also of the world at large;
- » to train and educate the youths to become worthy global citizens as well as to be able to effectively participate in the enormous task of nation building—rebuilding India through the building of individual character, cast in the mould of harmony, synthesis and peace.
- » to do all such other acts and things as may be necessary or desirable to further the objects of Ramakrishna Mission in particular reference to education as envisioned by Swami Vivekananda.

### 2.6. Thrust Areas of the Deemed University:

- Disability Management and Special Education
- Integrated Rural and Tribal Development including Agricultural Bio-technology
- Indian Spiritual and Cultural Heritage including Value Education
- Fundamental Science Education and Research
- Environmental and Disaster Management

### 2.7. Mission and Vision of the Deemed University:

The mission of the deemed university under the aegis of Ramakrishna Mission is the same as that of the Ramakrishna Mission itself as clearly laid down by Swami Vivekananda himself and as detailed above in the Ramakrishna Mission’s Memorandum of Association.

The vision of the University is once again the actualization of Swami Vivekananda’s educational vision, namely, to impart ‘man-making’ and character-building education to the youth so that they would not only acquire knowledge and skills, but also become men and women of character, possessed of the qualities of integrity, truthfulness, honesty, purity, selflessness, feeling for the suffering and the underprivileged, etc. Further, Swami Vivekananda wanted a blend of the ancient moral and spiritual wisdom of the East—the humanistic sciences—with the modern scientific and technological knowledge of the West—the natural sciences. The deemed university is striving to achieve this unique blend by setting up two Schools: The School of Indian Heritage and the School of Mathematical Sciences side by side so that scholars well versed in both could be created in a natural way by proximity and continuous exchange of ideas. We are told that the University is also trying to realize Swami Vivekananda’s vision of having an institution for the study of and research into comparative religion in

its most liberal and widest form to achieve intrafaith and interfaith harmony for global peace, through starting M.Phil. and Ph.D. programmes in 'Classical Indian Philosophy and Comparative Religion' at its 'off-campus' centre at Swami Vivekananda's Ancestral House in Kolkata where Swami Vivekananda was born. Along with Agricultural Bio-technology which is among the thrust areas, there is also a vision of setting up a School of New Biology and Life Sciences, which is one of the latest of the emerging areas in the 21st century.

**2.8. Whether the status of Deemed University was under *de novo* category? If yes, courses run in the emerging areas at present and at the time of declaration as deemed-to-be-University:**

Yes. The status is under *de novo* category.

At the time of declaration as deemed-to-be-university, the courses run were mainly teachers' training courses (B.Ed. and M.Ed.) in Disability Management and Special Education, an important thrust area in which there is a great dearth of teachers in India well trained in the fast developing technologies for the rehabilitation of the differently abled and the challenged. At present, the deemed university has expanded vastly by running courses/programmes in its other thrust areas as well. The courses run at present are the following:

(1) B.Ed., M.Ed., Ph.D., and Diploma programmes in Disability Management and Special Education:

- i. B.Ed. Special Education (Visual Impairment)
- ii. B.Ed. Special Education (Hearing Impairment)
- iii. B.Ed. Special Education (Mental Retardation)

I—M.Phil. in Special Education

- iv. Ph.D. in Special Education
- v. Diploma course in Community-based Rehabilitation
- vi. Diploma course in Sign Language
- vii. Diploma course in Computer Applications for the visually challenged.

(2) As an off-shoot of and in parallel with the above thrust area of Disability Management and Special Education, the deemed university has taken up another unique area, which is the only one of its kind in Asia Pacific, namely, 'General & Adapted Physical Education and Yoga', under which the following courses/programmes are run at the diploma, graduate, postgraduate and research levels. Training of coaches for Special Olympics is one unique feature of this thrust area. Courses/programmes in this Faculty include the following:

- i. Bachelor in Physical Education (B.P.Ed.)
- ii. Masters in Physical Education (M.P.Ed.)
- iii. M.Phil. in Physical Education
- iv. Ph.D. in Physical Education
- v. Diploma in Physical Education
- vi. PG Diploma/Diploma course in Fitness
- vii. PG Diploma course in Yoga
- viii. PG Diploma course in Special Olympics
- ix. PG Diploma course in Child Care

- x. PG Diploma course in Software-based Statistical Applications.
- (3) Under the thrust area 'Integral Rural and Tribal Development', the following courses are being run:
- i. Two-year M.Sc. in 'Integrated Rural Development and Management' at the Narendrapur 'Off-campus' Centre,
  - ii. Five-year Integrated M.Sc. in 'Integrated Rural and Tribal Development and Management' at the Ranchi 'Off-campus' Centre.
- (4) An off-shoot of the above area is the following emerging field, namely, Agricultural Bio-technology, which is considered the 'in thing' in the 21<sup>st</sup> century and is among the Government of India's thrust area in the XI Five-year Plan, has been taken up for study and research. The already existing one-year postgraduate diploma course in Agro-based Bio-technology is being upgraded to two-year M.Sc. course in Agricultural Bio-technology.
- (5) Under the thrust area 'Indian Heritage', the deemed university runs a five-year integrated M.A. course in Sanskrit, which is unique in India. The special feature of this course is the teaching-learning fully in Sanskrit medium. The only medium of communication allowed is Sanskrit. The vision is to create a band of Sanskrit scholars—at least 10 scholars in a year, so that in a span of about ten years, we would have 100 scholars who are fluent in spoken Sanskrit and facile in written Sanskrit. Along with Sanskrit, these students are taught English and Computer Applications as subsidiary subjects, along with Hindi as compulsory language. The vision here is to create some scholars in the emerging, exciting area of Natural Language Processing which is a topic of research in several universities abroad, which has come with the realization that Panini's Sanskrit grammar is one of the most scientific, suited for computer programming and analysis.
- (6) Realizing the dearth of quality research in the area of fundamental sciences, and in an attempt to actualize Swami Vivekananda's vision of promoting fundamental science education and research (as in his conversation with Sir Jamshedji Tata), the deemed university has taken up three fundamental sciences for study and research and started the courses as mentioned:
- i. Pure Mathematics—M.Sc. and Ph.D. programmes taken up
  - ii. Theoretical Computer Science—M.Sc. and Ph.D.
  - iii. Theoretical Physics—M.Phil. and Ph.D.
- (7) To create awareness among the educated public in India's own great heritage, diploma courses are being run under the School of Indian Heritage. These include the following courses:
- i. Diploma course in 'The Fundamentals of Indian Spiritual Heritage'
  - ii. Diploma course in 'The Bhagavad-gita—Ancient and Modern Interpretations' etc.

Besides, the university also helps the Ramakrishna Mission Institute of Culture, a prestigious cultural institute in Kolkata recognized by the Government of India's Ministry of Culture, to conduct the following courses:

- i. Three-tier course in Functional Sanskrit
- ii. Regular two-week workshops in Functional Sanskrit
- iii. Diploma/certificate courses in 'The Outlines of Indian Philosophy'
- iv. UNESCO-sponsored certificate course on 'International Understanding for Human Unity', etc.

- (8) Under the thrust area 'Environmental and Disaster Management', the university is contemplating the starting of an M.Phil. and Ph.D. programme in this important emerging area. With Ramakrishna Mission's more than century old experience in the field of relief and rehabilitation, it should be possible for the university under Ramakrishna Mission to run these programmes successfully. The availability of highly qualified monks in this area is an added advantage.

**2.9. Whether accredited by NAAC and NBA. If yes, rating. If not, steps taken by the deemed university for accreditation:**

No. Since the institute was declared by MHRD as deemed-to-be-University in January 2005 under the de novo category, it is just completing 5 years. After being confirmed in its status by UGC, the University would go for NAAC accreditation. The deemed university has informed the Committee that it plans to go for accreditation after completing 5 years and on being confirmed in its deemed university status.

**2.10. Whether the deemed university is conforming to the relevant regulations/norms of the UGC and other statutory bodies concerned regarding minimum standard of instructions. Give details.**

Yes. The courses on 'Disability Management and Special Education' have been approved by Rehabilitation Council of India which is the relevant statutory body in this regard. The courses on 'General & Adapted Physical Education and Yoga' have been approved by National Council for Teacher Education, the relevant statutory body for this area. (See also the answer to item 20 below). The other general courses have UGC approval and/or follow the UGC notification in regard to starting new courses in general subjects for which no prior approval of UGC is necessary. In each case, where the approval of statutory bodies are required, the Expert Committees that visited the University examined the compliance with and conformity to the regulations/norms set by the statutory bodies regarding the minimum standard of instructions and accorded approval only after being satisfied about such conformity. The other general courses conform to the UGC's directives on the minimum standard of instructions.

**2.11. Whether the deemed university is conforming to the relevant regulations/norms of the UGC and other statutory bodies concerned regarding the qualifications of teachers:**

Yes. NET and Ph.D. qualifications, are required by UGC, are being insisted upon. Where NET is not always possible, NET and/or Ph.D. is insisted upon. While almost all our teachers have these qualifications, those without them are already in the process of clearing NET and/or completing their Ph.D. programme.

**2.12. Whether the deemed university is conducting merit-based admission of students on an all-India level test. If yes, provide details of the entrance test.**

Yes. All the details of admission, including the admission test dates, syllabus for the admission test, model question paper, eligibility criteria, etc. are displayed in the University website. Essential details are also advertised in newspapers. Further details, coursewise/facultywise, are as follows:

- » For PhD scholars wanting to pursue research in pure mathematics, students who have qualified at the NET fellowship examination or NBHM PhD examination are invited for PhD interview.

- » For the MSc courses in Computer Science and Mathematics, all-India level written admission test followed by a viva-voce examination are conducted. If necessary, the written test is conducted in multiple venues for the students' convenience.
- » For the Faculties of 'Integrated Rural Development and Management' at Narendrapur Faculty Centre and 'Integrated Rural and Tribal Development Centre' at Ranchi, written tests and personal interviews are conducted, in multiple venues if necessary.
- » For the Faculties of 'Disability Management and Special Education' and 'General & Adapted Physical Education and Yoga' at the Coimbatore Centre, students from all over India and abroad come forward to study these courses, more with service orientation than as job-seekers and career-builders. Naturally, the number of such candidates is not large, so much so, there is very little competition for admission. Almost all those applying for admission are admitted to these courses with a personal interview. For the Physical Education courses, practical tests are conducted in games/athletic proficiency, games & sports participation, game skill test, physical fitness test etc.

## 2.13. Fee structure and its basis:

### 2.13.1. Fee Structure for the Courses at Belur Main Campus:

#### 2.13.1.1. School of Mathematical Sciences:

Sl.No.	Course	Fees per year
1	MSc Mathematics	Rs.6000/-
2	MSc Computer Science	Rs.7200/-
3	MPhil Theoretical Physics	Rs.7200/-*

\* M.Phil. Theoretical Physics students are paid a fellowship of Rs.4000/- per month.

#### 2.13.1.2. School of Indian Heritage:

Sl.No.	Course	Fees per year
1	Integrated MA in Sanskrit	Rs.1200/-
2	MPhil in Sanskrit	Rs.6000/-
3	MPhil in Bengali	Rs.6000/-

Note regarding the basis of the fee structure:

The fees for purely theoretical subjects are kept minimal. For subjects involving field work and/or laboratory work (in rural development, extensive field work/village visit is involved, while in agro-based biotechnology, extensive practicals as well as farm work are involved) the fees, although comparatively higher, are still quite reasonable. Further, bank loans and scholarships are arranged for needy students.

**2.13.2. Fee Structure for the Courses at Narendrapur Faculty Centre (approved 'off-campus' centre):**

- i. For 2-year (4-semester) M.Sc. in 'Integrated Rural Development & Management' course: Rs.12000/- per semester.
- ii. For 1-year (2-semester) Postgraduate Diploma in Agro-based Bio- technology course: Rs.8000/- per semester.
- iii. In addition, a one-time fee of Rs.5100/- (which includes admission fee, refundable caution deposit and identity card charges) is charged at the time of admission.

As one can see, the fees charged are minimal, particularly in view of the high practical orientation of the courses—field visit, farm work, rural living experience requiring stay in villages etc. The rationale is to encourage the youth of our country to seriously study the problems and possible solutions of rural India and strive for the integrated development of the villages which form the heart of India. The agricultural bio-technology course is meant to acquaint the farmers in the field with the latest developments in bio-technology in relation to agriculture.

**2.13.3. Fee Structure for the Courses at Ranchi Faculty Centre (approved 'off-campus' centre):**

- i. For 5-year (10-semester) Integrated M.Sc. (3-year B.Sc. and 2-year M.Sc.) in 'Integrated Rural Development & Management' course: Rs.10000/- per semester for the first three years (B.Sc.) and Rs.12500/- per semester for the last two years (M.Sc.).
- ii. For 1-year (2-semester) Postgraduate Diploma in Agro-based Bio- technology course: Rs.12000/- per semester.

In addition, a one-time fee of Rs.5100/- (which includes admission fee, refundable caution deposit and identity card charges) is charged at the time of admission.

Further, there several tribal students studying these courses, some of them first generation learners, and since the University wants the tribal and rural youth to serious study their own problems and arrive at possible solutions in the modern context, the fees are kept minimal. The University also provides scholarships to deserving students. Starting from September 2009, the topper in the integrated M.Sc. course in 'integrated tribal & rural development and management' is being given a handsome scholarship.

**2.13.4. Fee Structure for the Courses at Coimbatore Faculty Centre (approved 'off-campus' centre):**

**2.13.4.1. Courses under the Faculty of 'Disability Management and Special Education':**

Sl.No.	Description	Amount per annum
One year courses:		
1	Diploma in Community Based Rehabilitation	Rs.10,000/-
2	Diploma in Computer Applications for the Disabled	Rs.8,000/-
3	B.Ed. (Special Education)	Rs.20,000/-
4	M.Ed.(Special Education)	Rs.22,000/-
Two year course:		
1	Diploma in Education Special Education	Rs.15,000/-
Research Programme:		
1	PhD.(Special Education)	Rs.8,000/- at the time of registration

**2.13.4.2. Courses under the Faculty of 'General & Adapted Physical Education and Yoga':**

Sl.No.	Description	Fess per annum
One year courses:		
1	M.Phil.—Master of Philosophy in Physical Education	Rs.15,485/-
2	BPEd—Bachelor in Physical Education	Rs.23,387/-
Two year course:		
4	MPed—Master of Physical Education	Rs.20,302/-
5	DPEd—Diploma in Physical Education	Rs.21,875/-
Research Programme:		
6	PhD.(Physical Education & Inter disciplinary)	Rs.8,000/-At registration

**2.14. Examination pattern:****2.14.1. General Observations:**

Semester system is being followed. One mid-semester examination, one end-semester final examination, periodical unit tests conducted by each teacher, problem-solving sessions and home assignments by each teacher. As a general rule, the students are shown the examined scripts to ensure transparency and to rectify anomalies etc that might have inadvertently crept in.

**2.14.2. Faculty-specific Observations for the Courses run at 'Off-campus' Faculty Centres:**

### 2.14.2.1. For the Courses at the Coimbatore Centre:

At the Coimbatore Faculty Centre, credit-based semester system (with credit accumulation provision) is followed.

#### 2.14.2.1.2. For the Courses at the Narendrapur Centre:

Semester system with session break up is strictly followed for the courses—the semester breakup for each year being September to February, and March to September. Four unit tests (theory and practical) of 10 marks each, for individual modules, are conducted during the last week of every month.

50% of the marks obtained at the unit tests are added to the final marks. End-semester final examination is held towards the end of the last month of the semester. Both theory and practical examinations are of 30 marks. Hence, for a module having both theory and practical, evaluation is made for 100 marks.

50% of 4 theory Unit Tests	50% of 4 practical Unit Tests	Theory Final	Practical Final	Total	Numerical Grade
50 % of (4x10)= 20	50% of (4x10)= 20	30	30	100	Total/10

Both the courses follow the Course and Credit system of evaluation. The Grade Point Average (GPA) for a semester is calculated as the weighted average (weighted by corresponding credits) of individual modules. The format is given below:

Module (1)	Credit (2)	Numerical Grade (3)	Credit x Numerical Grade (2) x (3) = (4)
IRDM-X	3+2=5	8.00	5 x 8.00=40
-	-	-	-
-	-	-	-
	$\Sigma(2)$		$\Sigma(4)$
Grade Point Average = $\Sigma(4) / \Sigma(2)$			

Likewise the Overall Grade Point Average (OGPA) is calculated as the weighted average of Grade Point Averages secured in all four semesters. That is, the OGPA will be calculated as  $\{[(\text{GPA} \times \text{total Credit in Sem-I}) + (\text{GPA} \times \text{total Credit in Sem-II}) + (\text{GPA} \times \text{total Credit in Sem-III}) + (\text{GPA} \times \text{total Credit in Sem-IV})] / \text{total credits in four semesters}\}$

Before the end-of-semester final examination, an Examination Committee is formed by the Administrative Head of the Faculty Centre under the chairmanship of the Dean of the Faculty Centre. This Committee is responsible for conducting the whole examination. The Examination Committee meets at intervals to decide the issues of moderation of the question papers, external examiners for individual modules, dates/time/venue of theory and practical examinations, invigilators for examinations etc.

Evaluation/examination of the answer-scripts of theoretical examinations as well as conducting practical examinations are done by external examiners approved by the Examination Committee at the meetings of the Committee. On-the-spot-evaluation is done within the Faculty Centre. Scrutiny and independent checking of the evaluation is done.

### **2.14.3. For the Courses at the Ranchi Centre:**

#### **2.14.3.1. Examination and Evaluation System:**

For each module of all courses

##### **2.14.3.1.1 Unit tests and end-semester exam in each semester:**

- i. No. of unit tests in each semester (10 marks for theory and 10 marks for practicals): 4 (one in each month)
- ii. End-semester final examination: Theory 30 marks, Practical 30 marks

Marks secured in the end-semester (taken to be out of 50) is calculated as = 50% of the total marks obtained in the four unit tests (taken to be out of 20) plus the marks obtained in the final semester (taken to be out of 30).

##### **2.14.3.1.2 Preparation of question papers and Examination of answer-scripts:**

###### **2.14.3.1.2.1 Preparation of Questions:**

- i. For the Unit Tests: The teacher concerned prepares the question paper and conduct the unit test in his class in the respective module as per prescribed guidelines of the University.
- ii. For the end-of-semester final examination:
  - » (a) Theory: The teacher concerned submits 2 or 3 sets containing an exhaustive list of questions to the Controller of Examinations. The Moderation Board comprising the Dean and two other experts (at least one external and one internal) finalize the question paper from the above questions.
  - » (b) Practical: External academic persons and subject experts are appointed from other Universities/ Institutions to conduct practical examinations with the help of internal examiner(s).

###### **2.14.3.1.2.2 Examination of the theoretical examination answer-scripts:**

Central/on-the-spot evaluation system is followed in which the answer-scripts are examined by the external examiners within the stipulated period as per guidelines of the University issued by the Controller of Examination.

Masking and coding of the answer-scripts have been introduced in the process of evaluation whereby the name, roll number etc. of each of the answer-scripts is masked and a code number inserted in its place.

###### **2.14.3.1.2.4 Project Works of PG Diploma and Dissertation Papers of M.Sc.:**

Project work and the submission of the final report thereof pertaining to the postgraduate diploma students are supervised/guided and checked by the teachers/ internal teacher(s) only, while in the case of the M.Sc. students, dissertation works are guided by the internal expert(s) and dissertation paper examined by a board of at least three members, comprising the Dean or one internal expert, one external expert and the supervisor/guide.

### 2.14.3.1.2.5 Students' access to the examined scripts to ensure transparency:

All the examined answer scripts (both of unit tests and semester final) are shown to the respective students. This helps the students to understand and correct their mistakes with the teachers suggesting improvements.

Tabulation sheets showing the marks, numerical grades, grade point average (GPA) etc are displayed on the notice board before the final grade cards are prepared.

Student Intake and Actual Enrolment for the last 5 years or since the conferment of the deemed university status (course-wise)

## 2.15. Belur Main Campus:

### 2.15.1. 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 courseon '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 courseon '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.

### 2.15.2. 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

**2.15.3. Narendrapur Faculty Centre:****2.15.3.1. 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

**2.15.3.2. 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

**2.15.4. Ranchi Faculty Centre:****2.15.4.1. 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

#### 2.15.4.2. P.G. Diploma in Agro-based Biotechnology

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

#### 2.15.5. Coimbatore Faculty Centre:

##### 2.15.5.1. 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

##### 2.15.5.2. 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

Sl.No.	Course	Enrolment		
		2007-08	2008-09	2009-10
	Int. BPED	-	-	11

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

Same as the data provided in the MHRD Review Committee Report—see above

**2.17. Whether qualified faculty is available as per the norms of UGC and relevant statutory council(s):**

Yes. The University is constantly on the look out for the best available faculty and endeavours to recruit the best. But then, in the case of subjects like computer science, special education, adapted physical education, Sanskrit etc, it is becoming increasingly difficult to get competent qualified faculty, particularly because Sanskrit is being taught in the University fully in Sanskrit medium.

**2.18. Student-faculty ratio (course-wise) for the last 5 years:**

As one can see above, the number of students in each of the courses is quite low as these unconventional courses designed to benefit the common man and rural/tribal masses, or courses in fundamental sciences or Sanskrit do not attract many students. So, on an average, the student : faculty ratio has been 2 to 2.5 : 1.

**2.19. Details of the staff (technical, administrative etc) for the last 5 years (course-wise):**

**2.19.1. Belur Main Campus**

Sl.No.	Name	Designation
1	G.Ramnath	PA to VC
2	Chandan Chakrabarty	Office Asst.- cum-Accountant
3	Ganesh Mallick	Office Attendant-cum-sweeper
4	Prashanta Das (Madhab)	Driver-cum-Helper
5	Jagadish Thakur	Cook
6	Girish Mahapatra (Gopal)	Asst. Cook
7	Dinabandhu Barik	Helper
8	Ramesh Rana	Helper
9	Khem Bahadur (Mangal)	Helper
10	Shambhu Thakur	Helper
11	Amar Baskey	Helper

Sl.No.	Name	Designation
12	Pallab Kumar Mukherjee	Helper
13	Partha Tanti	Helper
14	Gour Chand Mondal	Helper

Apart from the above paid employees, we have qualified, dedicated monks of the Ramakrishna Order serving honorarily as Controller of Examinations, Finance Officer, Treasurer, Hostel Warden/Superintendent etc. Further, some lay persons are giving their dedicated honorary service in various capacities. A complete chart of these honorary workers, both monks and lay persons, engaged in both teaching/research and administration, working in a spirit of service, is given below.

Sl.No.	Name of monk/honorary worker	Designation/ Serving as	Remarks, if any
1	Swami Atmapriyananda	Vice Chancellor	Subject: Physics
2	Swami Sarvottamananda	Dean of Research, Faculty, Computer Science Dept.	Acting as Registrar
3	Swami Amiteshananda	Asst. Secretary, Faculty, Indian Heritage	Looks after finance and accounts
4	Swami Divyasukhananda	Coordinator, VIVEKDISHA—ISRO- VRC Project	
5	Swami Bhaveshananda	Coordinator and Faculty, IRDM and IRTDM Faculties	
6	Swami Vidyanathananda	Faculty, Mathematics Dept.	Coordinator, Mathematics Dept.
7	Swami Veetakamananda	In-charge, Building Construction	
8	Swami Samarpanananda	Faculty, Indian Heritage and Hindi	
9	Brahmachari Ajeya Chaitanya	Faculty, Computer Science Dept.	
10	Brahmachari Yatiraja Chaitanya	Faculty, IRDM and IRTDM Faculties	Controller of Examinations
11	Brahmachari Nirmoha Chaitanya	Faculty, IRDM and IRTDM Faculties	Hostel Warden

Sl.No.	Name of monk/honorary worker	Designation/ Serving as	Remarks, if any
12	Brahmachari Vidya Chaitanya	Website coordinator, teaches computer applications	Looks after the office
13	Brahmachari Shivanatha Chaitanya	Book production, DT Publication	Helps in office work, cash and accounts
14	Brahmachari Tathagata Chaitanya	Finance Officer	Publication of Annual Reports etc
15	Brahmachari Ayon Roy	Faculty, Departments of Philosophical Studies and English Literature	Coordinator, Humanities & Social Sciences Program
15	Prof Gopal Chandra Bhar	Science-Philosophy Interface Research	Preparing an exhaustive book on this subject
16	Snehasis Pal	Library Assistant	
17	Bhanu Kumar Laha	Accounts and Audit works	
18	Pradip Batabyal	Library, Asset Register preparation etc	

### 2.19.2. Ranchi Faculty Centre

Details of staff for the last 5 years coursewise (technical, administrative, etc)

Post	2006	2007	2008	2009
Technical*	-	-	1	1
Administrative**	6	6	6	6
Office assistant	-	-	-	1
Peon cum helper	1	1	1	1

\*Teaching and Technical support are taken from the Divyayan Krishi Vigyan Kendra (KVK) Staff, Ramakrishna Mission Ashrama, Ranchi till date.

\*\*VC, Controller of Examination, Coordinator, Jt Co-ordinator, Administrative Head, Dean (Hony).

### 2.19.3. Narendrapur Faculty Centre

Details of staff for the last 5 years coursewise (technical, administrative etc)

Post	2006	2007	2008	2009
Technical*	-	-	-	1
Administrative**	7	7	7	7
Accountant	1	1	1	1
Peon cum helper	-	1	1	1

\*Technical support was taken from the Agricultural Training Centre (ATC) Staff, Ramakrishna Mission Ashrama, Narendrapur during 2006-08.

\*\*VC, Pro-VC, Registrar, Controller of Examination, Coordinator, Administrative head, Dean,

#### 2.19.4. Coimbatore Faculty Centre

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

###### Technical Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Subramanian	Braille Unit In-Charge	05.09.1984
2	Sri M.P.Kandasamy	Braille Instructor	01.08.1984
3	Sri S.Sundaramoorthy	Mobility Instructor	02.01.1986
4	Sri R.Sankaranarayanan	Special Teacher	01.06.1986
5	Sri A.Sundaravadivelu	Speech Therapist	06.01.2002
6	Smt. S. Maheshwari	Play Therapy Unit In-charge	02.04.2002
7	Kum.V.Kalyani	Special Teacher	02.01.2004
8	Smt.S.K.Valli	Special Teacher	02.01.2004
9	Sri M.B.Jaiganesh	Sign Language Teacher	23.08.2004
10	Sri P.V. Sreenivasan	Low Vision Clinic Incharge	01.10.1993
11	Sri N.Sankar	Computer Instructor	01.05.2002
12	Sri R.Nagaraj	Computer Instructor	01.05.2002
13	Sri M.Muthupandi	Computer Instructor	01.05.2002

###### Administrative & Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri R.Ranganathan	Braille Book Binder	05.09.1984
2	Sri N.Velmurugan	Administrator	04.01.1985
3	Sri R.Vijayakumar	PRO	01.08.1989
4	Sri N.Annadurai	Proof Reader	03.01.1993
5	Sri S.Palanisamy	Machine Operator	03.01.1993
6	Sri K.Ramasamy	Office Asst.	01.01.1995
7	Sri S.Sivakumar	Office Asst.	01.01.1996
8	Sri V.R. Mathivanan	SSA Coordinator	10.01.1998
9	Sri R.Nithyanandam	Ortho Asst.	01.01.2000
10	Sri S.Muthusamy	Co-coordinator Extn. Services	15.07.2000
11	Sri P. Sridhar	Technician	15.07.2000
12	Sri R. Vijayavarman	Accountant	17.07.2000
13	Sri J. Bharathiraja	Attender	01.03.2001
14	Sri K.Anadaraj	Accounts Clerk	01.07.2001
15	Smt.V.Savithiri	Office Asst.(MR)	08.01.2002
16	Selvi. A.Gugapriya	Computer Instructor	08.01.2002
17	Sri S. Chinnasamy	Sweeper	01.01.2003
18	Sri M.Pradeep	Braille Section Asst.	09.01.2003
19	Smt.S.Lalitha	Library In-charge	11.01.2003
20	Smt. T.Mani	Sweeper	10.07.2003
21	Smt. S.Savithiri	Sweeper	01.10.2003
22	Sri N.Ramachandran	Receptionist	21.01.2004
23	Sri S.Kuppuraj	Ortho technician	01.11.2004
24	Sri A.Prabhu	SSA Office Asst.	01.11.2004
25	Sri M.Prabhakaran	Asst. to Cont. of Exam	01.11.2004
26	Sri P. Sathishkumar	Braille Computer Operator	25.11.2004
27	Sri N.Chandrasekaran	Braille dept. Asst	17.12.2004
28	Sri. M.Yoganantham	Ortho Unit Asst.	01.12.2005
29	Sri S. Sunderswamy	Clerk cum Typist	01.03.2005
30	Sri R.Baba	Field Teacher	01.08.2000
31	Sri V.Senthil Kumar	Field Teacher	01.08.2000

S.NO	Name	Designation	Date of Joining
32	Sri S.Manivelan	Field Teacher	01.08.2000
33	Sri K.Sathis Kumar	Field Teacher	01.08.2000
34	Sri R.Mahendran	Field Teacher	01.08.2000
35	Sri N.C.Babu	Field Teacher	01.08.2000
36	Sri C.Muthusamy	Fiedl Teacher	01.08.2000
37	Sri R. Sivasamy	Field Teacher	01.08.2000
38	Sri M. Anand	Tailoring Instructor	01.07.2001

**2006-07**

## Technical Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Subramanian	Braille Unit In-Charge	05.09.1984
2	Sri S.Sundaramoorthy	Mobility Instructor	02.01.1986
3	Sri R.Sankaranarayanan	Special Teacher	01.06.1986
4	Sri A.Sundaravadivelu	Speech Therapist	06.01.2002
5	Smt. S. Maheshwari	Play Therapy Unit In-charge	04.02.2002
6	Kum.V.Kalyani	Special Teacher	02.01.2004
7	Smt.S.K.Valli	Special Teacher	02.01.2004
8	Sri M.B.Jaiganesh	Sign Language Teacher	23.08.2004
9	Sri M.P.Kandasamy	Braille Instructor	01.08.1984
10	Sri N.Sankar	Computer Instructor	01.05.2002
11	Sri R.Nagaraj	Computer Instructor	01.05.2002
12	Sri M.Muthupandi	Computer Instructor	01.05.2002
13	Ms. I.Prabha	Special Teacher	01.09.2006

## Administrative &amp; Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri V.R. Mathivanan	SSA Coordinator	10.01.1998
2	Sri R.Ranganathan	Braille Book Binder	05.09.1984

S.NO	Name	Designation	Date of Joining
3	Sri N.Velmurugan	Administrator	04.01.1985
4	Sri R.Vijayakuamr	PRO	01.08.1989
5	Sri N.Annadurai	Proof Reader	03.01.1993
6	Sri S.Palanisamy	Machine Operator	03.01.1993
7	Sri K.Ramasamy	Office Asst.	01.01.1995
8	Sri S.Sivakumar	Office Asst.	01.01.1996
9	Sri R.Nithyanandam	Ortho Asst.	01.01.2000
10	Sri S.Muthusamy	Co-coordinator Extn. Services	15.07.2000
11	Sri P. Sridhar	Technician	15.07.2000
12	Sri R. Vijayavarman	Accountant	17.07.2000
13	Sri J. Bharathiraja	Attender	01.03.2001
14	Sri K.Anandaraj	Accounts Clerk	01.07.2001
15	Smt.V.Savithiri	Office Asst.(MR)	08.01.2002
16	Selvi. A.Gugapriya	Computer Instructor	08.01.2002
17	Sri S. Chinnasamy	Sweeper	01.01.2003
18	Sri M.Pradeep	Braille Section Asst.	09.01.2003
19	Smt.S.Lalitha	Library In-charge	11.01.2003
20	Smt. T.Mani	Sweeper	10.07.2003
21	Sri N.Ramachandran	Receptionist	21.01.2004
22	Sri S.Kuppuraj	Orthotechnician	01.11.2004
23	Sri A.Prabhu	SSA Office Asst.	01.11.2004
24	Sri M.Prabhakaran	Asst. to Cont. of Exam	01.11.2004
25	Sri P. Sathishkumar	Braille Computer Operator	25.11.2004
26	Sri N.Chandrasekaran	Braille dept. Asst	17.12.2004
27	Sri. M.Yoganathan	Ortho Unit Asst.	01.12.2005
28	Sri Aruchamy	Driver	03.07.2006
29	Sri S. Sunderswamy	Clerk cum Typist	01.03.2005
30	Sri R.Baba	Field Teacher	01.08.2000
31	Sri V.Senthil Kumar	Field Teacher	01.08.2000
32	Sri S.Manivelan	Field Teacher	01.08.2000
33	Sri K.Sathis Kumar	Field Teacher	01.08.2000

S.NO	Name	Designation	Date of Joining
34	Sri R.Mahendran	Field Teacher	01.08.2000
35	Sri N.C.Babu	Field Teacher	01.08.2000
36	Sri C.Muthusamy	Fiedl Teacher	01.08.2000
37	Sri R. Sivasamy	Field Teacher	01.08.2000
38	Sri M. Anand	Tailoring Instructor	01.07.2001
39	Sri R.Vijayakuamr	PRO	01.08.1989

## 2007-08

### Technical Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Subramanian	Braille Unit In-Charge	05.09.1984
2	Sri S.Sundaramoorthy	Mobility Instructor	02.01.1986
3	Sri R.Sankaranarayanan	Special Teacher	01.06.1986
4	Sri A.Sundaravadivelu	Speech Therapist	06.01.2002
5	Smt. S. Maheswari	Play Theraoy Unit Incharge	04.02.2002
6	Smt. S.Lalitha	Sign Language Teacher	11.01.2003
7	Kum.V.Kalyani	Special Teacher	02.01.2004
8	Smt.S.K.Valli	Special Teacher	02.01.2004
9	Smt. S.Udyavathi	Special Teacher	24.09.2007
10	Smt.R.Loganayaki	Special Teacher	08.10.2007
11	Kum.K.Yesotha	Physiotherapist	15.10.2007
12	Ms. A. Amutha	Low Vision Clinic Asst	21.07.2007
13	Kum.K.Dhanalakshmi	Low Vision Unit In-charge	05.11.2007

### Administrative & Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri A. Ayyanarsamy	Controler of Examiner	01.07.2007
2	Sri R.Ranganathan	Braille Book Binder	05.09.1984

S.NO	Name	Designation	Date of Joining
3	Sri N.Velmurugan	Administrator	04.01.1985
4	Sri A.Arjunan	Accountant	01.07.2007
5	Sri A. Ayyanarswamy	Dy. Controller of Examas.	01.07.2007
6	Sri N.Annadurai	Proof Reader	03.01.1993
7	Sri S.Palanisamy	Machine Operator	03.01.1993
8	Sri K.Ramasamy	Office Asst.	01.01.1995
9	Sri S.Sivakumar	Office Asst.	01.01.1996
10	Sri R.Nithyanandam	Ortho Asst.	01.01.2000
11	Sri S.Muthusamy	Co-coordinator Extn. Services	15.07.2000
12	Sri R.Vijayakuamr	PRO	01.08.1989
13	Sri P. Sridhar	Technician	15.07.2000
14	Sri R. Vijayavarman	Accountant	17.07.2000
15	Sri K.Anadaraj	Accounts Clerk	01.07.2001
16	Sri M. Sridhar	Clerk	10.11.2007
17	Smt.V.Savithiri	Office Asst.(MR)	08.01.2002
18	Selvi. A.Gugapriya	Computer Instructor	08.01.2002
19	Sri S. Chinnasamy	Sweeper	01.01.2003
20	Sri M.Pradeep	Braille Section Asst.	09.01.2003
21	Smt.S.Lalitha	Library In-charge	11.01.2003
22	Smt. T.Mani	Sweeper	10.07.2003
23	Smt. S.Savithiri	Sweeper	01.10.2003
24	Sri N.Ramachandran	Receptionist	21.01.2004
25	Sri S.Kuppuraj	Orthotechnician	01.11.2004
26	Sri A.Prabhu	SSA Office Asst.	01.11.2004
27	Sri M.Prabhakaran	Asst. to Cont. of Exam	01.11.2004
28	Sri P. Sathishkumar	Braille Computer Operator	25.11.2004
29	Sri N.Chandrasekaran	Braille dept. Asst	17.12.2004
30	Sri. M.Yoganathan	Ortho Unit Asst.	01.12.2005
31	Sri V. James Babu	Ortho Technician	15.02.2007
32	Sri N. Parthiban	Ortho Technician	15.06.2007
33	Smt. S. Selvalakshmi	Library Incharge	18.07.2007

S.NO	Name	Designation	Date of Joining
34	Sri R. Seshadri	Driver	01.07.2007
35	Sri Babu	Sign Language Asst	11.01.2007
36	Sri C.Manickam	Helper	01.07.2007
37	Sri R.Rathinam	Helper	13.06.2007
38	Smt. R. Sita	Helper	13.06.2007
39	Sri V. Palanisamy	Office Asst.	10.07.2007
40	Sri M. Soundararajan	Helper	08.06.2007
41	Sri. M.Yoganantham	Ortho Unit Asst.	01.12.2005

**2008-09**

## Technical Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Subramanian	Braille Unit In-Charge	05.09.1984
2	Sri S.Sundaramoorthy	Mobility Instructor	02.01.1986
3	Sri R.Sankaranarayanan	Special Teacher	01.06.1986
4	Sri A.Sundaravadivel	Speech Therapist	06.01.2002
5	Kum. A. Arunthathi	Special Teacher	16.09.2008
6	Smt.R.Loganayaki	Special Teacher	08.10.2007
7	Smt.S.K.Valli	Special Teacher	02.01.2004
8	Kum.G.Poongothai	Sign Language Teacher	01.01.2008
9	Smt. S. Uthayavathi	Special Teacher	24.09.2007
10	Ms. K. Yesotha	Physiotehrapist	15.10.2007
11	Kum.K.Dhanalakshmi	Low Vision Unit In-charge	05.11.2007

## Administrative &amp; Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri A. Ayyanarsamy	Controler of Examiner	01.07.2007
2	Sri S. Parthasarathy	Superintendent	04.01.1988

S.NO	Name	Designation	Date of Joining
3	Sri R.Ranganathan	Braille Book Binder	05.09.1984
4	Sri N.Annadurai	Proof Reader	03.01.1993
5	Sri S.Palanisamy	Machine Operator	03.01.1993
6	Sri S.Sivakumar	Office Asst.	01.01.1996
7	Sri S.Muthusamy	Co-coordinator Extn. Services	15.07.2000
8	Sri R.Vijayakuamr	PRO	01.08.1989
9	Sri R. Vijayavarman	Accountant	17.07.2000
10	Sri M. Sridhar	Clerk	10.11.2007
11	Smt.V.Savithiri	Office Asst.(MR)	08.01.2002
12	Selvi. A.Gugapriya	Computer Instructor	08.01.2002
13	Sri N.Ramachandran	Receptionist	21.01.2004
14	Sri M.Prabhakaran	Asst. to Cont. of Exam	01.11.2004
15	Sri P. Sathishkumar	Braille Computer Operator	25.11.2004
16	Smt.S.Pramila	Library In-charge	01.05.2008
17	Sri T.Paulmartin	Ortho Unit Helper	07.01.2009
18	Sri Munusamy	Ortho Unit Helper	07.01.2009
19	Sri R.Seshadhri	Driver	12.10.2006
20	Sri V. James Babu	Ortho Technician	15.02.2007
21	Sri N. Parthiban	Ortho Technician	15.06.2007
22	Sri M.Babu	Sign Language Teacher	11.01.2007
23	Sri V. Palanisamy	Office Asst.	10.07.2007
24	Sri M. Soundararajan	Helper	08.06.2007
25	Sri. M.Yoganantham	Ortho Unit Asst.	01.12.2005
26	Smt. T.Mani	Sweeper	10.07.2003
27	Smt. S. Sheela	Typist	08.09.2008

**2009-10**

Technical Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Subramanian	Braille Unit In-Charge	05.09.1984
2	Sri S.Sundaramoorthy	Mobility Instructor	02.01.1986
3	Sri R.Sankaranarayanan	Special Teacher	01.06.1986
4	Smt. A. Priya	Speech Therapist	06.07.2009
5	Kum. A. Arunthathi	Special Teacher	16.09.2008
6	Smt.R.Loganayaki	Special Teacher	08.10.2007
7	Smt.S.K.Valli	Special Teacher	02.01.2004
8	Kum.G.Poongothai	Sign Language Teacher	01.01.2008
9	Smt. S. Uthayavathi	Special Teacher	24.09.2007
10	Ms. K. Yesotha	Physiotehrapist	15.10.2007
11	Kum.K.Dhanalakshmi	Low Vision Unit In-charge	05.11.2007
12	Ms.V.Kalyani	Special Teacher	01.07.2009

Administrative & Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri A. Ayyanarsamy	Controler of Examiner	01.07.2007
2	Sri S. Parthasarathy	Superintendent	04.01.1988
3	Sri R.Ranganathan	Braille Book Binder	05.09.1984
4	Sri N.Annadurai	Proof Reader	03.01.1993
5	Sri S.Palanisamy	Machine Operator	03.01.1993
6	Sri S.Sivakumar	Office Asst.	01.01.1996
7	Sri S.Muthusamy	Co-coordinator Extn. Services	15.07.2000
8	Sri R.Vijayakuamr	PRO	01.08.1989
9	Sri R. Vijayarvarman	Accountant	17.07.2000
10	Sri M. Sridhar	Clerk	10.11.2007
11	Smt.V.Savithiri	Office Asst.(MR)	08.01.2002
12	Selvi. A.Gugapriya	Computer Instructor	08.01.2002
13	Sri N.Ramachandran	Receptionist	21.01.2004
14	Sri M.Prabhakaran	Asst. to Cont. of Exam	01.11.2004
15	Sri P. Sathishkumar	Braille Computer Operator	25.11.2004

S.NO	Name	Designation	Date of Joining
16	Sri. M. Balakannan	Ortho Technician	01.01.2009
16	Smt.S.Pramila	Library In-charge	01.05.2008
17	Sri T.Paulmartin	Ortho Unit Helper	07.01.2009
18	Sri Munusamy	Ortho Unit Helper	07.01.2009
19	Sri R.Seshadhri	Driver	12.10.2006
22	Sri M.Babu	Sign Language Teacher	11.01.2007
23	Sri V. Palanisamy	Office Asst.	10.07.2007
24	Sri M. Soundararajan	Helper	08.06.2007
25	Smt. S. Sheela	Typist	08.09.2008
26	Sri. S. Kumerasan	Ortho Unit Helper	01.09.2009
27	Sri P. Jayakumar	DTP Operator	11.09.2009
28	Sri R. Sambath	Ortho Unit Helper	01.09.2009

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

Details of the staff for the last 5 years or from the conferment of deemed university status (course-wise) (Technical, Administrative etc.)

#### 2007-08

##### Administrative & Non-Teaching Staff

SNO	Name	Designation	Date of Joining
1	Sri R.Ranganathan	Accountant	02.04.2007
2	Sri M.Muthukrishnan	Fitness Instructor	02.04.2007
3	Sri M.Palanisamy	Grounds man	02.04.2007
4	Sri P.Murugesan	Grounds man	02.04.2007
5	Sri N.Vellingiri	Grounds man	02.04.2007
6	Sri K.Soundararajan	Sweeper	02.04.2007
7	Sri Chinnusamy	Sweeper	02.04.2007
8	Sri R.Vimalan	Typist	18.10.2007
9	Sri G..Philip Jayakaran	Computer Assistant	03.01.2008
10	Sri G.Chithravel	Computer Assistant	13.03.2008

**2008-09**

## Administrative &amp; Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Palanisamy	Grounds man	02.04.2007
2	Sri P.Murugesan	Grounds man	02.04.2007
3	Sri N.Vellingiri	Grounds man	02.04.2007
4	Sri Chinnusamy	Sweeper	02.04.2007
5	Sri G..Philip Jayakaran	Computer Assistant	03.01.2008
6	Sri G.Chithravel	Computer Assistant	13.03.2008
7	Sri K.R.Rajendran	Accountant	15.09.2009
8	Sri R.Ramu	Accountant	01.11.2008
9	Sri P.Vijayan	Grounds man	28.04.2009

**2009-10**

## Administrative &amp; Non-Teaching Staff

S.NO	Name	Designation	Date of Joining
1	Sri M.Palanisamy	Grounds man	02.04.2007
2	Sri P.Murugesan	Grounds man	02.04.2007
3	Sri N.Vellingiri	Grounds man	02.04.2007
4	Sri Chinnusamy	Sweeper	02.04.2007
5	Sri K.R.Rajendran	Accountant	15.09.2009
6	Sri R.Ramu	Accountant	01.11.2008
7	Sri P.Vijayan	Grounds man	28.04.2009
8	Sri N.Sekar	Sweeper	05.08.2009
9	Sri L.Duraisamy	Grounds man	17.08.2009
10	Sri V.Ganesan	Office Assistant	08.09.2009

**2.20. Details of courses run on regular basis:**

Being a deemed university in the *de novo* category, there is no distinction between the courses offered at the time of conferment and courses introduced after conferment. Courses in emerging areas, innovative in nature,

were started from the inception, from 2005-06 academic session. The necessary approvals of UGC and the Statutory Councils (Rehabilitation Council of India, RCI, for Special Education courses and NCTE for physical education courses) have been duly obtained. The question of accreditation by NAAC will arise only after 5 years, after the period of *de novo* status is over and confirmation is given by UGC.

### 2.20.1. Belur Main Campus

#### 2.20.1.1. School of Indian Heritage:

Year of starting the course	Course name and details	Intake capacity (Max)
2006-07	Diploma Course on 'Meditation and Spiritual Life' (about 1000 hrs)	100
2007-2008	Integrated M.A. course in Sanskrit (5 yrs)	15
	M.Phil. + Ph.D. Sanskrit (2 yrs + 3-4 yrs)	10
	M.Phil. + Ph.D. Bengali (2 yrs + 3-4 yrs)	10
	Diploma course on 'Bhagavad-Gita—Traditional and Modern Interpretations' (about 1000 hrs)	100
	Diploma on 'Indian Spiritual Heritage' (about 1000 hrs)	50

#### 2.20.1.2. School of Mathematical Sciences:

Year of starting the course	Course name and details	Intake capacity (Max)
2008-2009	M.Sc. Computer Science (2 yrs)	15
	M.Sc. Mathematics (2 yrs)	15
	Ph.D. Mathematics (3-5 yrs)	2
	M.Phil. Physics (2 yrs)	10

#### 2.20.2. Narendrapur Faculty Centre:

Year of starting the course	Course name and details	Intake capacity (Max)
2006-2007	M.Sc. in 'Integrated Rural Development and Management' (2 yrs)	20
	PG Diploma in 'Agro-based Bio-technology' (1 yr)	20

**2.20.3. Ranchi Faculty Centre:**

Year of starting the course	Course name and details	Intake capacity (Max)
2006-2007	M.Sc. in 'Integrated Rural & Tribal Development and Management' (2 yrs)	20
	PG Diploma in 'Agro-based Bio-technology' (1 yr)	20

**2.20.4. Coimbatore Faculty Centre:**

**2.20.4.1. Faculty of 'Disability Management and Special Education'**

Year of starting the course	Course name and details	Intake capacity (Max)
2005-2006	B.Ed. in Special Education (Visual Impairment, Hearing Impairment and Mental Retardation)	25 x 3 = 75
	M.Ed. in Special Education (Visual Impairment, Hearing Impairment and Mental Retardation)	25 x 3 = 75
	D.Ed. (Diploma) in Special Education (Visual Impairment, Hearing Impairment, Mental Retardation, Computer Applications, Community Rehabilitation, Sign Language)	25 x 6 = 150
	Ph.D. in Special Education	40 - 50

All the above courses are approved by Rehabilitation Council of India (RCI), the relevant Statutory Council for Special Education and Rehabilitation Courses.

**Approval details of the Rehabilitation Council of India for the above courses:**

SL	Course	Approval Details—Ref.No. and date of the RCI letter
1	M.Ed	8-I30/Credit-System/M.Ed(VI,HI,MR) 05-06/RCI/6448, dated 07.06.2005
2	B.Ed	8-I30/Credit-System/B.Ed(VI,HI,MR)05-06/RCI/6449, dated 07.06.2005
3	Diploma	8-351/2003-RCI/5500 dated March 12,2004

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

Year of starting the course	Course name and details	Intake capacity (Max)
2007-2008	B.P.Ed. (Bachelor of Physical Education)	50
	M.P.Ed. (Bachelor of Physical Education)	50
	D.P.Ed. (Diploma in Physical Education)	100
	M.Phil. in Physical Education	30
	Ph.D. in Physical Education	40-50

All the above courses are approved by the National Council for Teacher Education (NCTE), the relevant Statutory Council for Physical Education courses.

Approval details of the relevant Statutory Council (National Council for Teacher Education) in case of the above courses:

Sl.No.	Course	Approval Details—Ref.No. and date of the NCTE letters
1	MPEd	NCTE Letter – Dated 28 / 04 / 2008 – Code No.APS08471 –Letter No.F.SRO / NCTE / 2006-07 / 983
2	BPEd	NCTE Letter – dated 22 / 09 / 2008 – Code No.APS08513 –Letter No.F.SRO / NCTE / B P Ed / 2008 / 5126
3	DPEd	NCTE Letter – dated 18 / 12 / 2008 – Letter No.F.SRO / NCTE / 2008-09 / 8063

Infrastructural facilities (building, equipment, library, laboratories etc.) are given under Item 21 and 24 below.

**2.21. Whether infrastructure is available as per the norms and standards of the relevant Statutory Council:**

Yes. Details of the infrastructural facilities, namely, buildings and equipment, at Belur Main Campus, Ranchi, Narendrapur, Coimbatore and Vivekananda Research Centre (Kolkata) 'Off-campus' centres are given in Section 6 above, and some additional information is given below.

**2.21.1. Belur Main Campus**

**2.21.1.1. Building Details—Classrooms etc.**

**Building Infrastructure at Belur Campus:**

Ground Floor (12,000 sq ft)	Room No.	Room Purpose	Size (in sq ft)	No.
	I 01	Conference Room	40.5 x 24.5	I
	I 02	Control Room	12.6 x 10.4	I
	I 03	Server Room	12.6 x 10.4	I
	I 04	Press Room	25.7 x 20	I
	I 05	Visitors Room	20 x 13.5	I
	I 06	Meeting Room	20 x 13.5	I
	I 07	Canteen	12.5 x 10	I
	I 08	Store	12.5 x 10.4	I
	I 09	General Office	40.5 x 37.6	I
	I 10	Vivekdisha	24.6 x 22.5	I
	I 11	Office	20 x 13.5	I
	I 12	VC Room	20 x 19.8	I
	I 13	VC Office	20 x 12.7	I
	I 14	Registrar Office	20 x 12.7	I
	I 15	Registrar Room	20 x 19.8	I
	I 16	Room of Controller of Examination	20 x 13.5	I
	I 17	Class Room	24.5 x 20	I

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.

#### 1.21.11.2. 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.

#### 2.21.2. Ranchi Faculty Centre

##### 2.21.2.1. Building Infrastructural Details

##### **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
	R-111	Guard Room	14'10"x9'6"	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 Entrancearea	23'6"x 20'	1
		Side Varanda	128'x6'6" 107x6'6"	1 1
		Front Varanda & Back side	64'9"x6'6"	2
First Floor	-----	Only Roof Casting is completed	Almost similar as above	

### 2.21.3. Narendrapur Faculty Centre

#### 2.21.3.1. Building Infrastructural Details

#### **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
	Ladies Toilet		1
	Gents Toilet		1

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.

## 2.21.4. Coimbatore Faculty Centre

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

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
2	31.12.2005	Ricoh Photo Copier Model Aficio 2020D with in Duplex Printer for Scanner Network Card

EQUIPMENT		
S.No.	Date	Items
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		
1	07.10.2005	S Type Chair 3 Nos.

FURNITURE		
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

**2.21.4.2. Faculty of 'Disability Management and Special Education'**

**Only additional facilities have been indicated.**

Sl	Description	Present Status
1	Administrative-cum-academic Block	15,043 SQ Ft
2	Niranjanananda Hostel	10800 SQ Ft
3	Prayer hall	4000 SQ Ft
4	Extension Building for Library Block	3247 SQ Ft
5	Extension of Fitness Center	3000 SQ Ft
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.	5 acres

### 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
		Total

### FURNITURE

2007-2008
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FURNITURE		
1	07.03.2007	Table 2' X 3'
2	07.03.2007	Table 2' X 4'
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

### 2.21.5. Vivekananda Research Centre at Swami Vivekananda's Ancestral House in Kolkata Building Infrastructural facilities

#### Ground Floor:

- i. Reception Room: 24' x 18'
- ii. Office: 19' x 14.5'
- iii. Library: 25' x 19'

#### First Floor:

- i. Discussion Room: 17' x 11'
- ii. Seminar Room: 25' x 19'
- iii. Class Room: 19' x 14.5'
- iv. Teachers' Cubicle: 17' x 10'

Second Floor:

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

## **2.22. Whether courses are run under distance mode also.**

No. All courses are run only in the direct face-to-face conventional mode.

## **2.23. Name and place of off-campus/off-shore campus/study centres, if any. If yes, whether permission obtained from UGC/MHRD/Statutory Councils:**

- » International Human Resource Development Centre for the Disabled located at Ramakrishna Mission Vidyalaya, Coimbatore—for the faculties of (i) Disability Management and Special Education and (ii) General & Adapted Physical Education and Yoga
- » Ramakrishna Mission Loka Siksha Parishad, Narendrapur, Kolkata, West Bengal—for the Faculty of 'Integrated Rural Development and Management'
- » Ramakrishna Mission Divyayan Krishi Vigyan Kendra, Ranchi, Jharkhand—for the Faculty of 'Integrated Rural and Tribal Development'
- » Ramakrishna Mission Vivekananda Research Centre at Swami Vivekananda's Ancestral House, Kolkata, West Bengal—for doctoral and post-doctoral research

Permission has been duly obtained from UGC/MHRD for the above centres, the details of which are given below.

### **Approval of the above 'off-campus' centres by UGC and MHRD--Details:**

- UGC letter No.F.6-96/2004 (CPP-I) dated 3 July 2006 from Renu Batra, Joint Secretary, University Grants Commission, New Delhi
- MHRD Notification No.F.9-14/2006-U.3(A) dated 20 February 2007 from Madhukar Sinha, Director, Department of Higher Education, Ministry of Human Resource Development, Government of India

## **2.24. Library (details of books, journals, magazines, CDs etc):**

### **2.24.1. Belur Main Campus**

Total number of books in the School of Mathematical Sciences (Mathematics, Physics, Computer Science) and Indian Heritage (Sanskrit, Upanishads, Gita, other scriptures etc), as well as books of general interest: 10363. The library is being continuously updated and enriched. Department-wise details:

- i. 1. Physics - 1307
- ii. 2. Computer Sc - 1128

- iii. 3. Math - 1908
- iv. 4. Indian Heritage - 5069
- v. 5. Bengali & Hindi Literature - 390
- vi. 6. Agriculture & Environment - 214
- vii. 7. General English Dictionary etc - 347

Total Books - 10363

### 2.24.2. Ranchi Faculty Centre

The students are getting access to the libraries of Ramakrishna Mission Ashrama, Ranchi, and of the University's Faculty centre, both put together having nearly 24000 books 100 Journals and periodicals. The item-wise list of the number of books of Ashrama and University Faculty Centre are given below:

Number of Books and Journals in the Library:

Sl. No.	Item	Books			Journals		
		Ashrama Library	RKMVU Library	Total	Ashrama Library	RKMVU Library	Total
1.	Languages	199	2	201	--	--	--
2.	Humanities and Social Science	381	73	454	--	3	3
3.	Science	1453	50	1053		1	1
4.	Home Science	59	0	59			
5.	Computer Science	30	0	30			
6.	Commerce and Management	113	2	115			
7.	Education	70	0	70			
8.	Engineering and Technology	92	0	92			
9.	Health Sciences	127	0	127			
10.	Agriculture Sciences	499	154	653	6	1	7
11.	Veterinary Sciences	217	10	227	2	0	2
12.	Law	57	0	57			
13.	Others	18392	2838	21230	86		86

Sl. No.	Item	Books			Journals		
		Ashrama Library	RKMVU Library	Total	Ashrama Library	RKMVU Library	Total
	Total	21689	3129	24818	94	5	99

Number of Books and Journals according to Languages:

Sl. No.	Languages	Books	Journals
1.	English	12454	46
2.	Hindi	7013	44
3.	Regional (Bengali)	5341	--
4.	Others	10	9
	Total	24818	99

### 2.24.3. Narendrapur Faculty Centre

The students are getting access to the library of both Agriculture Training Centre, a Unit of Ramakrishna Mission Ashrama, Narendrapur, which has nearly 8000 books, 6 Journals and 20-22 periodicals, as well as the University Faculty Centre's library having 478 books and 7 Journals.

### 2.24.4. Coimbatore Faculty Centre

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

Total Number of Books=6142		
1	Braille Books= 175	
2	Bhoj University Books = 158 + 200	
3	Tamil Nadu Open University=168	
4	Spiritual Books = 461 + 120	
5	Desertation Works = 382	

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

Sl.No	Year	Particulars	Value of books (Rs.)
1	2007-08	Books	23259
2	2008-09	Books	44685
Total: 67944			

**2.25. Research Projects approved and completed during the last 5 years:****2.25.1. Belur Main Campus****2.25.1.1. 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.

**2.25.1.2. School of Mathematical Sciences—Dept. of Physics****Professor P.K. Mukherjee’s Projects etc.**

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.

**Professor Gopal Chandra Bhar—Report of Research and Project Activities (including US Patents) during the last five years (2005-10)**

### **A. Laser Technology and some Applications**

The author, trained as a laser scientist early in his career at the University of Southampton UK during his service life with the Burdwan University conducted research by creating experimental facility on developments of tunable laser radiations through techniques of nonlinear optics and applications thereof. The choice of the topic was dictated by the then available sponsoring agencies of the Government of India viz. Ministry of Defence, Department of Atomic Energy, Department of Science and Technology as there were almost no support available from the state-aided Burdwan University in terms of staff, space and not to talk of grants for equipments. Since lasers as such are not available at all wavelengths of electromagnetic spectrum, they have been developed in Ultraviolet (UV), Infrared (IR) and Tera Hertz (THz) ranges of the Electromagnetic spectrum to suit different potential applications. The central theme for development of tunable laser adopted is employment of nonlinear techniques and thereby researches on appropriate nonlinear crystals for the purpose of frequency mixing. On his retirement from Burdwan University, some of his work already started was required to be continued and these were successfully completed with the help of his students and laboratory colleagues of Burdwan, after his new assignment at this University.

On applications, the generated tunable UV laser radiation is useful disinfection of potable water from potentially harmful bacteria, giardiasis etc. The non-laser UV light is too weak to remove them completely from water. This aspect was presented earlier in a national seminar at Viswa Bharati University and later published as detailed in Appendix-A. The laboratory has also demonstrated in the past how the generated UV laser radiation can detect illicit drugs and explosives in trace quantities in collaboration with the Central Forensic Laboratory Kolkata.

The IR region carries the fingerprints of trace atmospheric gases of environmental interest. The trace gases of interest include greenhouse gases and atmospheric pollutants like methane, carbon-dioxide, oxides of nitrogen and sulphur, hydrocarbons, ozone, Chlorofluorocarbon etc and explosives including HMX, TNT, RDX and so on. Furthermore some of the trace gases are produced inside our body due to body-misfunction causing some diseases and so their identification is important for diagnosis of these diseases. As for example, NO for asthma, acetone for diabetes, ammonia for renal disfunction, carbonyl sulphide (COS) for liver disfunction and so on.

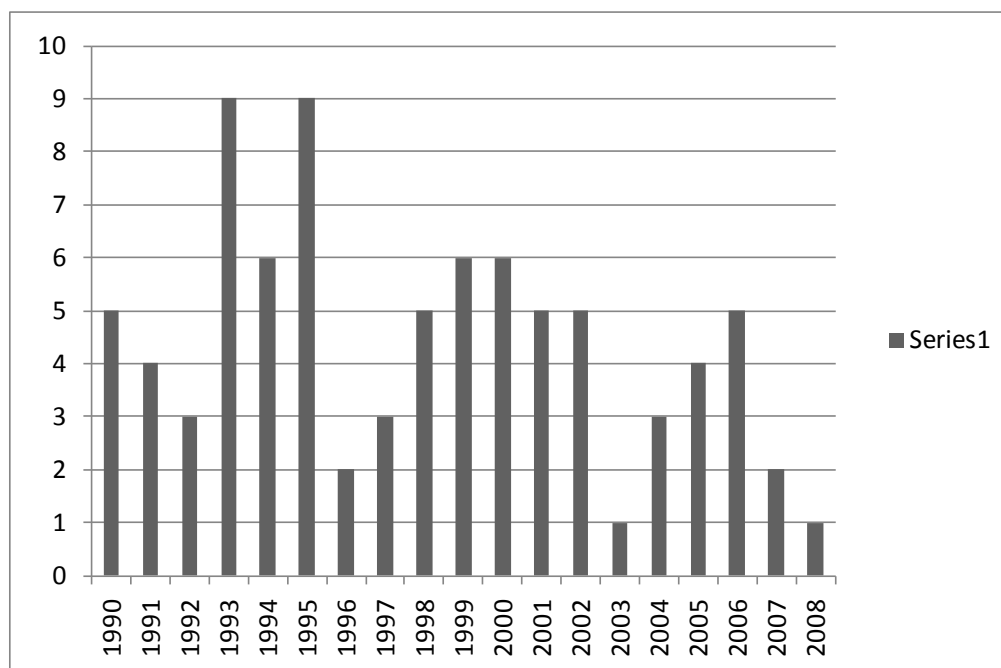
The laboratory also developed a simple technique for generation of THz laser radiation which is preferred to conventional ionizing x-rays for security application. THz radiations are advantageous in many respects. As for example it can penetrate clothing and packaging materials, it is non-ionising, and it can provide high resolution 3D imaging. While the THz or the sub millimeter region is full of signatures of the so called plastic explosives and drugs the detection of which is of prime importance for security in air transport as well as in concealed mining. Specifically, THz source with sufficient power and portability has been a problem for their ready availability, but our proposed nonlinear optical technique provides a comparatively easy method.

Their publications and conference presentations are also listed in the adjoining tables A and B respectively. Some preliminary lectures on this aspect were delivered at deemed Universities at NIT Durgapur, and ISM University at Dhanbad to their Postgraduate, M.Sc and B.Tech students and also at the academic staff college at Burdwan University.

The pioneering contribution has been development of materials for Infrared Nonlinear Optics which earned attraction of the US Defense scientist for an WOS Fellow and Plenary speaker in a prime Laser Symposium in US during 2006. He continued to advise his students former colleagues at his Laser Laboratory Burdwan University.

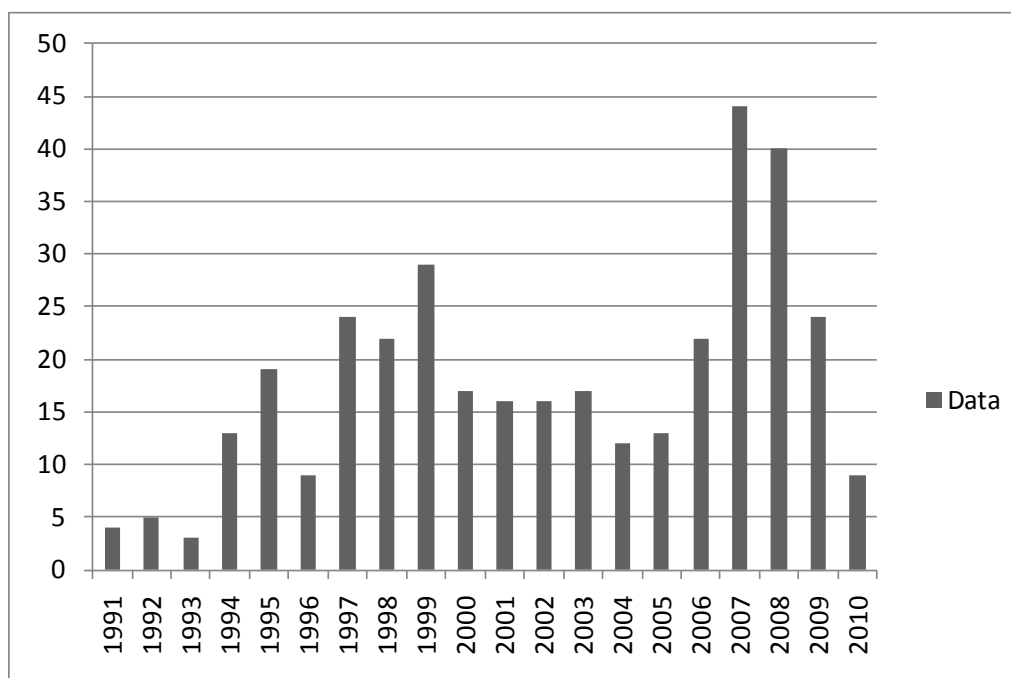
The contributions are appreciated by the scientific community in India and specially abroad and are being utilized effectively as is evident through numerous citations as listed in Science Citation Index. The prominent commercial grower and supplier of infrared crystals viz. Cleveland Crystals, INRAD Inc etc of US use our evaluation through quoting in their data sheet of products. The following two bar diagrams collected from SCI website to illustrate past research publications of the author in international journals year wise and also their citations:

### Published Items in Each Year



There have been two publications in 2007 and one in 2008

### Citations in Each Year



This citation was made in June 10, 2008. The latest citation data covering mid June 2008 till mid June 2010 shows that there are 40, 24 and 9 citations for the year 2008, 2009 and 2010 respectively.

On another level, Professor Bhar has been working on the following interesting topic for the last five years in this University. The summary of his work and the articles published, talks given etc. are given below.

### **B. Physics-Philosophy/Science-Mysticism Interface:**

1. The physical universe of matter is not the sole reality. Other non-physical realities exist, which may contain other life forms. Interestingly this is consistent with string theory and M theory at the forefront of Modern Physics.

2. Our human nature has both a material side subject to physical laws, birth and death as well as a non-physical immortal spirit or soul.

3. All human possess a capacity to intuitively perceive the true multifaceted nature of ourselves and the greatest reality. Unfortunately this is pretty dormant in modern society.

One is required to acquire two types of knowledge. These are the knowledge of the laws of the external world and also the knowledge of the internal world governing the self i.e. the law of laws. In the language of Indian scripture the former is called *apara vidya* known as science which studies the external world through sensual instruments while the knowledge of the second kind known as *para vidya* is not objective and so is not measurable but is subjective दवे वदिये वेदतिब्रये परा चेवापरा च. Shankacharyya elaborated this by saying one gets something pursuing *apara vidya*, while the study of *para vidya* enables one to transform: अपरा चेत् प्राप्यम् परा चेत् ज्ञातव्यम्. This knowing is by becoming through transformation of the self itself. The concept was nicely illustrated by the famous astrophysicist Arthur Eddington more than a century back through an analogy of catching fish by net from ocean. The catch corresponds to fish, the quality as well as the quantity of which is determined by the fineness of the mesh of the net, being the sensory equipment. Eddington concluded that this second kind of knowledge i.e. the fish/knowledge that escape the net does not come under the purview of (physical) sciences. This is just like the guidance of police by laws and equipment thereof while catching a criminal. In ordinary or gross level we deal with objects by senses, called *vishaya*. *Para vidya* deals with the perceiver of objects, known as *vishayee* who is the observer or seer of object which is subject. This *vishayee* (subject) and the *vishaya* (object) comprise the totality of the knowledge. Eddington also said in another context that every piece of knowledge is acquired at the expense of a piece of ignorance—it is impossible to empty the well of knowledge with a leaky bucket.

This subjective aspect of knowledge came to the forefront with the rise of the new physics through Quantum Mechanics and Relativity Theory. Heisenberg's Principle of Uncertainty is a step in Physics towards the obliteration of the distinction between the subject and the object.

The spiritual intuition comes through the heart—not the physical or the emotional heart, but the 'spiritual heart' which is the seat of higher intuition. Swami Vivekananda's statement on cultivating the spiritual intuition through the development of the heart is worth quoting in this context: “

What we really want is head and heart combined. The heart is great indeed; it is through the heart that come the great inspirations of life. I would a hundred times rather have a little heart and no brain, than be all brains and no heart. Life is possible, progress is possible for him who has heart, but he who has no heart and only brains dies of dryness”.

To conclude let us draw a line of demarcation of characteristics of sensual knowledge from that of spiritual, presented serially:

### **Science (*Apara vidya*)**

- Sensuous knowledge

- Measurable and describable
- Follows the causality law
- Local transformation
- Having beginning and end
- Fragmentary knowledge, acquired piece by piece like an an artistdrawing a picture line by line
- Feels that happiness comes from the outside, sense-dependent world
- Spirituality (Para vidya)
- Super-sensuous knowledge
- Non-measurable and non-describable
- Beyond causality
- Non-local transformation
- Beginningless and endless, that is eternally present
- Wholesome and complete knowledge, acquired at once like holography, unfragmented
- Certifies that real happiness is within—always present, to be manifested

#### **Laser Physics—Publications in International Journals**

1. Nonlinear Optics 33, 41 (2005)

“In search of noncritically phase-matched nonlinear infrared laser devices”

- S Das, G C Bhar and C Ghosh

2. Nonlinear Optics 33, 119 (2005)

“Tunable mid-infrared radiation by singly-resonant optical parametricoscillation based on KTA crystal”

-S Das, C Ghosh, S Gangopadhyay and G C Bhar

3. Pramana- J of Physics 64 (1), 67 (2005)

“Singly resonant optical parametric oscillator based on KTA crystal”.

- S Das, S Gangopadhyay, C Ghosh and G C Bhar

4. Applied Optics 44, 817 (2005)

“A multi-pass configuration to achieve high frequency conversion in lithium tetraborate nonlinear crystals”

-U Chatterjee, C Ghosh, S Gangopadhyay and G C Bhar

5. J Applied Spectroscopy, 73, 113-118 Jan-Feb 2006

“Low-Limit Photo-acoustic detection of solid RDX and TNT explosives with CO<sub>2</sub> laser”

- A K Chaudhary, G C Bhar and S Das

6. J. Optical Soc. America B vol 23, 282-88 (2006)

“Tunable coherent infrared sources from 5-16  $\mu$ m based on difference-frequency generation in an Indium-doped GaSe crystal”

-S Das, U Chatterjee, G C Bhar et al

7. Applied Physics Letters 88, 171101-1102 (24 April 2006)

“ Large enhancement in second-harmonic generation by optical feedback”

-U. Chatterjee), S. Gangopadhyay, C. Ghosh, and G. C. Bhar)

8. Indian J Physics 80(5) 517-21 (2006)

“Development of Ultraviolet Laser for disinfection of potable water”

-G C Bhar and U Chatterjee

9. Journal of Quantitative Spectroscopy and Radiative Transfer, 98, 57-66 (2006)

“Generation of tunable infrared radiation in rubidium titanyl phosphate crystal for the optical measurement of number density, absorption cross-section of methane gas”

-A K Chaudhary, G C Bhar, P Kumbhakar

10. Nonlinear Optics, Quantum Optics, 2007, Mar, 25(SCI)

Tunable Vacuum-ultraviolet Laser Generation by Nonlinear Optical Techniques

-P. Kumbhakar, G. C. Bhar and T. Kobayashi,

11. Journal of Applied Spectroscopy Vol 74(4), P.5162007

“Generation of Tunable Coherent deep UV radiation for Detection and Absorption Studies of Explosives RDX and TNT”

-A Chaudhary, A M Rudra, P Kumbhakar and G C Bhar

12. Nonlinear Optics and Quantum Optics Vol 38(1) 29-38, 2008

“An Optical Feedback Scheme to Enhance Sum-Frequency Generation”

-U Chatterjee, S Gangopadhy, G C Bhar and J J Huang

**Presentations on both Laser Physics and Physics-Philosophy Interface in Conferences (National and International)**

1. Proc National Conference on Lasers and their Applications in Basic and Applied Sciences, Visva-Bharati University, 2005

“Development of Ultraviolet Laser for Potable Water”

G C Bhar and U Chatterjee INVITED

2. Proc Conference on Photonic Band Gap Materials, IIT Kharagpur 2005

“Elements of Nonlinear Optics” INVITED

-G C Bhar INVITED

3. Great Lakes Photonics Symposium, Dayton Ohio June 2006

“Nonlinear Materials for Infrared Nonlinear Optics”

G C Bhar PLENARY

4. Great Lakes Photonics Symposium, Dayton Ohio June 2006

“Generation of Tunable Infrared Radiation”

-G C Bhar INVITED

5. Progress in Tunable Lasers for Ultrafast Processes and Applications (PTLUPA6) IIT Chennai, December 21-22, 2006

“Tunable lasers for Infrared and Terahertz Applications” -G C Bhar Invited

6. Short Course in Material Characterisation (QIP) NIT Durgapur April 24-28,2006

“Fundamentals of Laser Physics and Applications”

“Nonlinear Optical Materials and Characterisation” –G C Bhar (Invited)

7.Indian School of Mines University October 2006

“Quantum Physics and Vedanta”

- G C Bhar (Invited)

8.Physics and Technology of All-Optical Communication Components and Devices, IIT Kharagpur October 2007

“Nonlinear Frequency Mixing Devices with some Applications”-G C Bhar (Invited)

9.Laser-Based Detection Methods for Explosives, ARL-TR-4279

Army Research Laboratory Sept 2007

CO<sub>2</sub>. LASER PHOTOACOUSTIC SPECTROSCOPY OF SOME HAZARDOUS MOLECULES

spectroscopy.mps.ohio-state.edu/symposium\_57/symposium/.../p419.ps

SN Thakur, R L Prasad and G C Bhar

10.National Seminar on Recent Advances in Material Science, Indian School of Mines University, Dhanbad  
February 15-17,2008

“Development of Tunable Laser for Detection of Natural Gases in Mining environment”

-G C Bhar (Invited)

11-12. Quest for Advanced Materials (QIP), NIT Durgapur University February 2008

“Vedanta and Philosophy of Sciences”

“Frequency-shifting Nonlinear Materials for Laser Devices from UV to terahertz through Infrared”

-G C Bhar (Invited)

13.DAE Symposium on Radiation Science National Workshop on RADIATION SCIENCE AND APPLICATIONS  
SEPTEMBER 10 – 12, 2008 postponed to February 2009

“Generation of Tera Hertz Radiations and their Social & Security Applications”

-G C Bhar (Invited)

14.Winter School on Nano-Particles-Science and Technology

MHRD and AICTE at the NIT University at Durgapur on January 9-10,2009.

“Elements of Nonlinear Optics and Some Modern Applications”

15. Winter School on Nano-Particles-Science and Technology

MHRD and AICTE at the NIT University at Durgapur on January 9-10,2009.

“Science and Spirituality”

16.Refreshers' Course in Physics Academic Staff College at Burdwan University February 12,2009

Some Novel Laser Applications

-G C Bhar (Invited)

17.Refreshers' Course in Physics Academic Staff College at Burdwan University February 12,2009

Philosophy of Science and Spirituality

-G C Bhar (Invited)

18.Symposium on Traditional Knowledge and Old Wisdom, at Netaji Ashram Mahavidyalaya Suisa sept 8-9,2009  
"Philosophy of Sciences and Ancient Wisdom"

-G C Bhar (Invited)

19.Seminar J K College Purulia September 9,2009

"Lasrs and Applications'

-G C Bhar (invited)

20.International Conference ON RADIATION PHYSICS AND ITS APPLICATIONS (ICRPA)

Burdwan University January 16-17,2010

"Tera Hertz Radiation:Generation and Applications"

- G C Bhar (invited)

21. National Seminar on Photonics and Materials (NASPAM) ,Indian School of Mines

Dhanbad,25- 27 March' 2010

Role of Nonlinear Optics in Life Style Management

22. Science Camp under INSPIRE Internship programme of DST, Govt of India for students of Class XI/XII within the top 1% students of Class X Boards April 6-10, 2010 at ISM, Dhanbad.

Story of Light from Newton to Einstein and Beyond

### **Patents Issued through Research Work in Laser Physics**

In addition to high citations of researches several scientists all over the globe including US, Japan, Germany have exploited our published work in patents on the basis of:

A. Novelty in nonlinear crystals,

B. Unique wavelength generation capability for application potentiality

C. Speciality in the nonlinear technique for generation.

It is heartening to note that there are as many as 17 publications which have been utilized in registering patents. Out of these there are two publications each used for three patents simultaneously and another two publications each used for two patents simultaneously.

Some of these gathered from the internet are summarized below.

I. US Patent issued; Patent 7644606 Issued on January 12, 2010

Photoacoustic spectroscopy system and technique for remote sensing ...

### **Abstract**

A user-friendly photo acoustic spectroscopy (PAS) system and process (technique) provides an open-field PAS instrument, unit and device to remotely sense explosives, chemicals and biological agents. The PAS system and process can include: a pulsed tunable laser, such as a CO<sub>2</sub> laser; a reflector, such as a parabolic reflector; an acoustic reverberant resonator in which a microphone is installed, and a data acquisition and analysis system.

The work exploited our following publication:

R. L. Prasad, R. Prasad, G. C. Bhar and S. N. Thakur.

"Photoacoustic spectra and modes of vibration of TNT and RDX at CO<sub>2</sub> laser wavelengths. Spectrochim Acta A Mol Biomol Spectrosc. 58(14):3093-102. Dec. 2002.

2. United States Patent 5909456 Laser beam generator by Oka, Michio (Kanagawa, JP)

**Abstract**

A laser beam generator includes first and second mirrors, a laser light source, a laser medium, a non-linear optical crystal element and a birefringent element. The laser light source generates a pumping light beam. The laser medium, arranged between the first and second mirrors, is irradiated with the pumping light beam via one of the mirrors to generate a fundamental laser beam based on the pumping light beam. The non-linear optical crystal element is arranged between the first and second mirrors to generate a second harmonic laser beam under the type II phase matching as the fundamental laser beam from the laser medium is passed through it in resonant oscillation. The birefringent element has its one surface at a pumping light beam inlet side coated with a high reflectance coating and has its opposite surface parallel to it with a nonreflective coating. The birefringent element is set so that its optical axis is inclined at a predetermined azimuth angle with respect to the crystal axis of the non-linear optical crystal element. The surface of the birefringent element coated with a high reflectance coating constitutes one of the first or second mirrors.

The work exploited the following publication of ours using as reference:

G C Bhar, U Chatterjee and P K Datta

"Enhancement of Second Harmonic Generation by Double-Pass Configuration in Barium Borate", Applied Physics B: Photo-Physics and Laser Chemis, Nov. 1990, No. 5, Berlin, DE pp. 317-319.

3. United States Patent 6,373,869: System and method for generating coherent radiation at ultraviolet wavelengths by James Jacob (Aptos, CA)

**Abstract**

An optical system for producing ultraviolet radiation includes an optical source, an optical parametric oscillator (OPO), a frequency doubler, and a mixer. The optical source produces a first beam of radiation. The OPO receives a first portion of the first beam of radiation and produces a second beam of radiation therefrom. The frequency doubler receives a second portion of the first beam of radiation and produces the second harmonic thereof. The mixer mixes the second beam of radiation and the second harmonic of the first beam of radiation to produce an ultraviolet beam of radiation. In a preferred embodiment, the optical source includes a Nd:YAG laser which is frequency doubled to produce a first beam of radiation at a wavelength of approximately 532 nm; and the ultraviolet beam of radiation has a wavelength close to one of the excimer laser lines, typically either 193 nm or 157 nm.

The patent exploits our work along with two others:

G.C. Bhar, U. Chatterjee, A.M. Rudra and P. Kumbhakar,

"Generation of tunable 187.9-196-nm radiation in Ba<sub>2</sub>BO<sub>4</sub>," Optics Letters, vol. 22, No. 21, Nov. 1, 1997, pp. 1606-1608.

4. US Patent 6,508,960: Telluride quaternary nonlinear optic materials by Jonathan Goldstein, Melvin Ohmer, David Zelmon

**Abstract**

A solid state laser device made from a nonlinear optic quaternary alloy of Silver, Gallium, Selenium and Tellurium semiconductor material or Silver, Gallium, Sulfur and Tellurium semiconductor material. The Tellurium component in each alloy provides quaternary alloying anion modification of an underlying ternary semiconductor crystal and achieves tuning of the birefringence and tuning of the wavelength passband of the semiconductor material. The tuned quaternary alloy enables beam walkoff-free noncritical phase match operation of the laser device including use of a phase match angle supporting optimum use of the material's nonlinear properties, maximized useful length of the material crystal, room temperature wavelength changing operation, significantly increased second order nonlinear susceptibility, a factor of ten reduction in the walk-off angle and photon energy conversion efficiencies several times those usually achieved. The Tellurium alloy component also accomplishes shifting of the semiconductor material energy absorption characteristic to avoid a preferred laser pump wavelength energy absorption peak and assists in circumvention of the thermal lensing phenomenon in the crystal. The accomplished laser device provides infrared energy output while operating in for example either the second harmonic generation or the optical parametric oscillation configurations. Examples involving both related materials and the ultimate quaternary materials are included.

In the usual text they have stated only the following reference:

"Phase studies, crystal growth, and optical properties of  $\text{CdGe}(\text{As}_{1-x}\text{P}_x)_2$  and  $\text{AgGa}(\text{Se}_{1-x}\text{S}_x)_2$  solid solutions" authored by J.C. Mikkelsen, Jr. and H. Kildal appearing in Journal of Applied Physics vol. 49, No. 1, Jan. 1978.

But the Patent mentions the following work of ours in Detailed Description of the Patent body:

In Example 1  $\text{AgGaTe}_2$  Phase matching is however realizable in  $\text{AgGaTe}_2$  at slightly elevated temperatures i.e., through use of the mechanism of temperature tuning. Temperature tuning to obtain the necessary birefringence has been previously exploited by Andreev et. al. as is reported in the article by Y. M. Andreev, A. N. Morozov, A. V. Sosin, and G. S. Khmel'nitskii, Sov. J. Quantum. Electron. 14, 1024 (1984) and by Bhar et. al. as reported in an article by G. C. Bhar, S. Das, and U. Chatterjee, P. K. Datta, and Yu. M. Andreev in App. Phys. Lett. 63, 1316 (1993). The title of this paper is "Noncritically phase-matched second harmonic generation in mixed chalcopyrite crystal", while another very relevant paper of ours published in Journal of Applied Physics, Volume 74, Issue 8, October 15, 1993, pp.5282-5284 with title "Temperature effects in second harmonic generation in  $\text{AgGaSe}_2$  crystal" which they carefully avoided to mention.

In Example 2 as  $\text{AgGaSe}_2$  has been studied extensively and is available commercially. Table V below shows parameters for a three term Sellmeier Expression for  $\text{AgGaSe}_2$  as disclosed in the published article of G. C. Bhar appearing in the journal Applied Optics at volume 15, page 305 (1976). Similar values and additional details also appear in table 2.1 of Chapter 2 in the well known reference text "Handbook of Thermo-Optic Coefficients of Optical Materials With Applications" By my student Gorachand Ghosh published by Academic Press of New York, Boston and San Diego

In Example 3 as  $\text{AgGaS}_2$  has been studied extensively and is available commercially. Table V below shows parameters for a three term Sellmeier Expression for  $\text{AgGaS}_2$  as disclosed in the published article of G. C. Bhar appearing in the journal Applied Optics at volume 15, page 305 (1976).

5. U S Patent 5943161 : Wavelength conversion device employing Bessel beams with parallel polarization  
Inventors; Shinozaki, Keisuke, Xu, Chang Qing and Sasaki, Hironori

**Abstract**

A wavelength conversion device employs an axicon lens to form Bessel beams of signal light and pump light, which are directed into an anisotropic nonlinear optical crystal. The signal light and pump light are both polarized parallel to the uniquely determined Z-axis of the anisotropic nonlinear optical crystal, the Z-axis being

oriented perpendicular to the beam axis. The axicon lens is configured to refract the signal light and pump light at angles such that a phase matching condition is satisfied in the anisotropic nonlinear optical crystal, and converted light, also polarized parallel to the Z-axis and having a new wavelength, is generated.

Utilised our following publication:

G C Bhar, A M Rudra, A K Chaudhary, T Sasaki and Y Mori

“Highly efficient difference-frequency generation in KTP”,

Applied Physics B: Lasers and Optics, vol. B63, No. 2, Aug. 1, 1996, pp. 141-144

6. US Patent No. 6614584

Laser frequency converter with automatic phase matching adjustment by Govorkov; Sergei (Boca Raton, FL) Slobodchikov, Evgueni (Lawrenceville, NJ) <http://www.patentgenius.com/patent/6614584.html>

**Abstract:**

A laser system includes a laser source and at least one orientationally adjustable and/or temperature-controlled nonlinear optical crystals. First and second position sensitive detectors respectively detect fundamental and higher frequency harmonic beams. A controller receives signals from the first and second detectors indicative of a phase matching error and controls an orientation and/or a temperature of the crystal based on the signals to substantially a phase matching condition.

The work utilizes our following publication:

G. C. Bhar, D. C. Hanna, B. Luther-Davies, R. C. Smith,

Optics Communications, v.6, p.323 (1972), each of which is hereby incorporated by reference).

6. Patent 3962576 : Method and apparatus for automatic generation of phase-adapted coherent secondary radiation in a non-linear crystal by Kuhl, Jurgen , Spitschan, Hans-Jorg

**Abstract**

Secondary radiation in a non-linear crystal is produced by irradiating the crystal with a coherent primary radiation, to produce a coherent phase-adapted secondary radiation whose frequency is doubled with respect to the frequency of the primary radiation. In a modification of the method, two different sources of primary radiation are used, in such a way that the secondary radiation in the crystal is equal to the sum or the difference of the frequencies of the primary radiation sources. In apparatus for carrying out the method, the crystal to be irradiated is mounted in a swinging or tiltable carrier. The emerging radiation is partially reflected onto a pair of photoelectric detectors, the output of which controls a servomotor to vary the degree of tilt of the crystal. In a second embodiment, there are two crystals tilting in opposite directions. In a third embodiment of the apparatus, two separate sources of primary radiation serve to irradiate a single crystal. Instead of tilting the crystal, it may be subjected to different temperatures in order to produce the desired adaptation of the phases of the primary and secondary radiation.

Utilised our publication:

G. C. Bhar, D. C. Hanna, B. Luther-Davies and R. C. Smith, Optics Communications 6, 323 (1972).

6. US Patent 6834066 : Stabilization technique for high repetition rate gas discharge lasers by\* Bragin, Igor,\* Berger, Vadim, \* Kleinschmidt, Juergen

**Abstract**

Method and system for providing stabilization techniques for high repetition rate gas discharge lasers with active loads provided in the discharge circuitry design which may include a resistance provided in the discharge circuitry.

G.C. Bhar, et al., "Tunable Down-Conversion from an Optical Parametric Oscillator," Optics Communications, vol. 6, No. 4, Dec. 1972, pp. 323-326.

7. US Patent 5136597 : "Poynting vector walk-off compensation in type II phasematching" by Nightingale, John L. of Coherent Inc USA

**Abstract**

An improved geometry is disclosed for enhancing the efficiency of second harmonic conversion in a Type II phasematching material. In this approach, the effects of wave vector double refraction are used to compensate for the effects of Poynting vector walk-off. To achieve this goal, the input fundamental beam 32 is arranged to enter the doubling crystal 30 at an oblique angle of incidence. This angle is selected so that the wave vector double refraction angle is equal to the Poynting vector walk-off. In order to maximize doubling efficiency, the axes of the crystal must be oriented so that the optimum phasematching angle coincides with the propagation axis of the refracted fundamental beam travelling in the crystal. The subject invention is particularly suited for use with a KTP crystal in either intracavity doubling or in an external resonant geometry.

The subject invention relates to an approach for improving the efficiency of Type II phasematching, such as in KTP, by compensating for Poynting vector walk-off effects.

Based on work (amongst others):

G. C. Bhar and U. Chatterjee, "Analyses of Phase-Matching for Noncollinear Three-Wave Mixing in Uniaxial Crystals", Jun. 1990,

Japanese Journal of Applied Physics, vol. 29, No. 6, pp. 1103-1107

8. Patent Number: US5980789: Modified gallium selenide crystals for high power nonlinear optical applications by Nils C. Fernelius • Narsingh B. Singh • Dennis R. Suhre • Vijay Balakrishna

**Abstract**

A new method for improving the mechanical properties and nonlinear optical performance characteristics of gallium selenide crystals (GaSe) is disclosed. A charge of GaSe crystals was doped with indium before being made into a crystal. The indium-doped GaSe crystals have improved physical properties in that they can be cut along the cleave planes and the cleaved surfaces polished without the usual delaminations typically observed in prior art pure GaSe crystals. The indium-doped crystals were tested in a second harmonic generation (SHG) system and found to have nearly twice the SHG efficiency as pure, or undoped, GaSe crystals.

The Patent includes the work done by the following (including others)

G.C. Bhar et al., "Nonlinear Optical Laser Devices using GaSe," Applied Physics B, vol. 61, pp. 187-190, (1995).

9. US Patent 6,508,960 : Telluride quaternary nonlinear optic materials

Inventors: Jonathan T Goldstein, Melvin C. Ohmer and David E Zelmon

G. C. Bhar, S. Das, U. Chatterjee, P. K. Datta, and Yu. M. Andreev

"Noncritically phase-matched second harmonic generation in mixed chalcopyrite crystal"

Applied Physics Letters 63, 1316 (1993)

G C Bhar

"Refractive Index Interpolation in Phase-matching"

Applied Optics 15,305 (1976)

**Abstract:**

A solid state laser device made from a nonlinear optic quaternary alloy of Silver, Gallium, Selenium and Tellurium

semiconductor material or Silver, Gallium, Sulfur and Tellurium semiconductor material. The Tellurium component in each alloy provides quaternary alloying anion modification of an underlying ternary semiconductor crystal and achieves tuning of the birefringence and tuning of the wavelength passband of the semiconductor material. The tuned quaternary alloy enables beam walkoff-free noncritical phase match operation of the laser device including use of a phase match angle supporting optimum use of the material's nonlinear properties, maximized useful length of the material crystal, room temperature wavelength changing operation, significantly increased second order nonlinear susceptibility, a factor of ten reduction in the walk-off angle and photon energy conversion efficiencies several times those usually achieved. The Tellurium alloy component also accomplishes shifting of the semiconductor material energy absorption characteristic to avoid a preferred laser pump wavelength energy absorption peak and assists in circumvention of the thermal lensing phenomenon in the crystal. The accomplished laser device provides infrared energy output while operating in for example either the second harmonic generation or the optical parametric oscillation configurations. Examples involving both related materials and the ultimate quaternary materials are included.

### Example 3 : AgGaS<sub>2</sub>

These values also appear in the published article of G. C. Bhar in the Journal Applied Optics at volume 15, page 305 (1976)

### Example 5 : AgGa<sub>1-x</sub>In<sub>x</sub>Se<sub>2</sub>

In a technical article appearing in Applied Physics Letters 63, 1316 (1993) G. C. Bhar, S. Das, U. Chatterjee, P. K. Datta, and Yu. M. Andreev disclose work with the quaternary Indium chalcopyrite alloy AgGa<sub>sub.(1-x)</sub>In<sub>sub.x</sub>Se<sub>sub.2</sub> and use of this material as a nonlinear optical crystal. This work, moreover, includes noncritical phase matching applications in the infrared wavelength range of 0.8 to 13 microns and use of the material in second harmonic generation and optical parametric oscillation applications employing the 10.6 micron carbon dioxide line. Indium contents in the range of thirty to forty percent are included in this work. This quaternary Indium alloy is reported in this work to have good properties including strong nonlinear coupling, wide transmission range, wide phase matching range and low energy absorption characteristics. There appears, however, some question as to the commercial availability of this material in sufficient quality and quantity to support its extensive use at the time of present document preparation.

### Example 6: AgGa(Se<sub>1-x</sub>Te<sub>x</sub>)<sub>2</sub>

The Sellmeier expressions given by equations 13 and 14 for one parent alloy, AgGaTe<sub>sub.2</sub>, and the best set of Sellmeier expressions for AgGaSe<sub>sub.2</sub> as disclosed by G. C. Bhar in the journal Applied Optics at volume 15, page 305 (1976) or alternately from Table V above provide the indices of the other parent ternary alloy compound in the present instance.

Non-critical phase matching occurs for a phase matching angle  $\theta = 90$  degrees. For this condition the maximum utilization of the available nonlinear properties of the AgGa(Se<sub>sub.(1-x)</sub>Te<sub>sub.x</sub>)<sub>sub.2</sub> crystal is possible as  $\sin \theta$  has its maximum value and therefore equation 16 predicts favorable efficiency.

Relatively small additions of Te to the present state of the art AgGaSe<sub>sub.2</sub> material improve conversion efficiencies significantly.

The addition of Tellurium to nonlinear optical materials is believed therefore to provide a significant advance in the nonlinear optical and laser device arts.

10. United States Patent 4229073 : Iso-index coupled-wave electro-optic filters

by Lotspeich, James F. (Malibu, CA) Hughes Aircraft Company (Culver City, CA)

### Abstract:

Narrow-band optical filters are disclosed utilizing a birefringent crystal exhibiting a change in sign in birefringence at a predetermined wavelength and relying upon wave coupling between ordinary and extraordinary polariza-

tions of light at or near the predetermined wavelength. The crystal is disposed along the light path between appropriately oriented polarizers, and a dc electric field is applied to the crystal either parallel or perpendicular to the light path. The dc electric field produces the aforementioned wave coupling for light at the center wavelength of the filter which normally is equal to the predetermined wavelength. The filter center wavelength may be displaced from the predetermined wavelength by employing a spatially periodic electric field.

The Patent exploit ourwork:

Bhar et al., "Silver Thiogallate (AgGaS.sub.2)-Part II: Linear Optical Properties," IEEE Journal of Quantum Electronics, vol. QE-10, No. 7, (Jul. 1974), pp. 546-550.

10. U S Patent 4589737 :Doped and undoped single crystal multilayered structures

By Sashital, Sanat K.

#### **Abstract**

Disclosed is a multilayer electro-optical material having a plurality of adjacent, single crystals wherein each crystal layer has different electrical and optical properties from its adjacent layer or layers. This material is made by a method wherein the successive layers are epitaxially grown from a molten solution of said electro-optical material optionally containing at least one dopant. In one embodiment, such electro-optic material comprises silver thiogallate, wherein successive epitaxial layers are grown from a molten solution of silver thiogallate and potassium chloride, and which optionally includes at least one dopant. This molten solution exhibits the characteristic that, for any specific solution composition, layers having different electrical and optical properties can be obtained by cooling over the temperature range which will yield crystal growth of the composition corresponding to the desired electrical and optical properties. By taking advantage of this temperature/composition phase precipitation, multi-layers are formed by cooling first within one temperature range to form on the seed crystal substrate a layer of silver thiogallate including the dopant and then subsequently forming on this first layer a second layer of different composition varying from substantially pure silver thiogallate to silver thiogallate including at least one dopant, by cooling within a different temperature range. By successively alternating between cooling over these different temperature ranges, multiple layers are formed with adjacent layers having different electrical and optical properties. The multi-layered structures produced by the above method can be utilized in electro-optical devices, and particularly as the tunable birefringent medium in tunable electro-optic filters.

Mentioned in the text

The potential use of silver thiogallate (AgGaS<sub>2</sub>) in tunable filters and other electro-optical devices is described by Gopal C. Bhar and R. C. Smith in an article "Silver Thiogallate (AgGaS<sub>2</sub>) - Part II: Linear Optical Properties, IEEE Journal of Quantum Electronics, Vol. QE-10, No. 7 (July 1974) pp. 546-550

11. US Patent 6,508,960: Telluride quaternary nonlinear optic materials

by Jonathan Goldstein, Melvin Ohmer, David Zelmon

#### **Abstract**

A solid state laser device made from a nonlinear optic quaternary alloy of Silver, Gallium, Selenium and Tellurium semiconductor material or Silver, Gallium, Sulfur and Tellurium semiconductor material. The Tellurium component in each alloy provides quaternary alloying anion modification of an underlying ternary semiconductor crystal and achieves tuning of the birefringence and tuning of the wavelength passband of the semiconductor material. The tuned quaternary alloy enables beam walkoff-free noncritical phase match operation of the laser device including use of a phase match angle supporting optimum use of the material's nonlinear properties, maximized useful length of the material crystal, room temperature wavelength changing operation, signifi-

cantly increased second order nonlinear susceptibility, a factor of ten reduction in the walk-off angle and photon energy conversion efficiencies several times those usually achieved. The Tellurium alloy component also accomplishes shifting of the semiconductor material energy absorption characteristic to avoid a preferred laser pump wavelength energy absorption peak and assists in circumvention of the thermal lensing phenomenon in the crystal. The accomplished laser device provides infrared energy output while operating in for example either the second harmonic generation or the optical parametric oscillation configurations. Examples involving both related materials and the ultimate quaternary materials are included.

11. U.S. Patent number: 6304583 by Melvin C. Ohmer et al  
Utilisation of Telluride Quaternary Nonlinear Optic Materials  
Utilize amongst others our work Applied Optics 15,305 (1976)

11. U.S. patent 4961634 issued to R. A. Chipman and D. B. Chenault, on "Infrared achromatic retarder" based on prime work (along with others) :

### Abstract

An infrared achromatic waveplate structure having a cadmium sulfide (CdS) plate and a cadmium selenide (CdSe) plate aligned with each other so that the fast axis of the plates are perpendicular to each other, this structure provides a desired retardance of a first orthogonal polarization component with respect to a second orthogonal polarization component of an incident light beam. The thickness of the plates are in a ratio between 0.8:1 and 0.9:1 (CdSe:CdS), an achromatic response with a substantially constant retardance is provided in a wavelength range from 3 to 11 microns. A desired amount of retardance is available by adjusting the thickness of the two plates as long as the ratio of the thicknesses is maintained within the recited value. In particular a quarter wave net retardance of an incident light beam operating between 3 and 11 microns is provided when the cadmium sulfide plate is 1.25 millimeters and the cadmium selenide plate is 1.0666 millimeters.

G. C. Bhar and G. Ghosh, "Temperature-dependent Sellmeier coefficients ... DUPLICATE  
9. G. C. Bhar, "Refractive index interpolation in phase-matching," Appl. Opt. 15, 305-307 (1976).

12. U.S. patent 4961634 issued to R. A. Chipman and D. B. Chenault, on "Infrared achromatic retarder"

### Abstract

An infrared achromatic waveplate structure having a cadmium sulfide (CdS) plate and a cadmium selenide (CdSe) plate aligned with each other so that the fast axis of the plates are perpendicular to each other, this structure provides a desired retardance of a first orthogonal polarization component with respect to a second orthogonal polarization component of an incident light beam. The thickness of the plates are in a ratio between 0.8:1 and 0.9:1 (CdSe:CdS), an achromatic response with a substantially constant retardance is provided in a wavelength range from 3 to 11 microns. A desired amount of retardance is available by adjusting the thickness of the two plates as long as the ratio of the thicknesses is maintained within the recited value. In particular a quarter wave net retardance of an incident light beam operating between 3 and 11 microns is provided when the cadmium sulfide plate is 1.25 millimeters and the cadmium selenide plate is 1.0666 millimeters.

G. C. Bhar and G. Ghosh, "Temperature-dependent Sellmeier coefficients ... DUPLICATE  
9. G. C. Bhar, "Refractive index interpolation in phase-matching," Appl. Opt. 15, 305-307 (1976).

13. G. C. Bhar and R. C. Smith,

“Optical properties of II-IV-V<sub>2</sub> and I-III-VI<sub>2</sub> crystals with

Particular reference to transmission limits “

Physica Status Solidi(a) 13, 157 (1972)

German Patent No. DE 1985502 I C I. 121: N. Meyer, Phasenbildung im Raum ...

14. U.S. patent 5, 611, 856 : “Method for growing crystals,”

Schunemann; Peter G. (Malden, MA), Pollak; Thomas M. (Amherst, NH)

#### **Abstract**

The present invention provides a method for producing single crystals of a group II-IV-V<sub>2</sub> and group I-III-VI<sub>2</sub> compounds by synthesizing compound material from its constituents and separately melting and refreezing the material in a transparent furnace while observing crystal growth.

G. C. Bhar, L. K. Samanta, D. K. Ghosh, and S. Das,

“A tunable parametric ZnGeP<sub>2</sub> crystal oscillator”

Sov. J. Quantum Electron. 17, 860 (1987)

16. Japanese Patent 81121.456 : Optical constants of ZnSiAs<sub>2</sub> thin films grown by metal-organic chemical vapor deposition by H.A. Naseema, L.C. Burtona and J.E. Andrews Jr.

#### **Abstract**

Optical measurements were made on ZnSiAs<sub>2</sub> films that were grown on sapphire substrates by the metal-organic chemical vapor deposition technique. The refractive index and absorption coefficient were determined over the wavelength range 600–1000 nm. The optical band gap was determined over the temperature range from -50°C to +50°C and a band gap temperature coefficient of  $-5.5 \times 10^{-4} \text{ eV/K}$  was obtained.

17. US Patent 6526073 , United States Patent 6198756: CW far-UV laser system with two active resonators  
Atherton, Briggs and Spinelli, Luis A. of Coherent Inc

#### **Abstract:**

A laser system includes a travelling-wave active laser-resonator arranged for generating laser-radiation having a first wavelength and arranged such that the first-wavelength radiation circulates in only one direction therein. An optically-nonlinear element is positioned in the travelling-wave laser-resonator such that the first-wavelength radiation circulates therethrough. Radiation having a second-wavelength is injected into the optically-nonlinear crystal such that the first-wavelength radiation and second-wavelength radiation mix therein, thereby generating radiation having the sum-frequency of the first and second-wavelength radiations. The sum-frequency radiation from the optically-nonlinear element is delivered from the laser system as output-radiation. In one example, the travelling-wave resonator has a YVO<sub>4</sub> gain medium generating radiation having a wavelength of about 1064 nm. The optically-nonlinear crystal is a CLBO crystal. 244 nm radiation from an intracavity frequency doubled argon laser is injected into the optically-nonlinear crystal providing output radiation having a wavelength of about 195 nm

G.C. Bhar et al., “Widely tunable deep ultraviolet generation in CLBO,” Optics Communications, vol. 176, Mar. 15, 2000, pp. 199-205..

17. United States Patent 6198756 ;CW far-UV laser system with two active resonators

Inventors: Caprara, Andrea (Menlo Park, CA) and Spinelli, Luis A. (Sunnyvale, CA)

A laser system includes two separate active laser-resonators. A first of the laser-resonators delivers laser-radiation at a first wavelength, and the second generates fundamental laser-radiation at second wavelength. The

second resonator includes an optically-nonlinear crystal. The radiation delivered by the first laser-resonator is mixed in the optically-nonlinear crystal with the fundamental radiation circulating in the second resonator thereby generating radiation having the sum frequency of the first and second wavelengths. In one example, an OPS-laser-resonator having a fundamental wavelength of 976 nm includes a CLBO crystal. 244 nm radiation from an intracavity-frequency-doubled 488 nm argon-ion laser is mixed in the CLBO with the 976 nm radiation to provide 195 nm radiation.

G. C. Bhar et al., "Widely tunable deep ultraviolet generation in CLBO," Optics Communications, vol. 176, Mar. 15, 2000, pp. 199-205.

18. Patent 5680412: Apparatus for improving the optical intensity induced damage limit of optical quality crystals

Inventors ; DeMaria, Anthony J., Kennedy, John Hart, Richard A.

#### **Abstract**

The apparatus of the present invention significantly improves the optical intensity induced damage limit of optical quality crystals, and in particular crystals used in the conversion of laser radiation at a specific wavelength to another wavelength or other wavelengths through non-linear interaction of the input laser radiation with the optical crystal medium. In accordance with the present invention, passive optical elements are positioned at the laser beam exiting and entrance surfaces of the active optical element. The surfaces of the passive optical elements are placed up against respective exiting and entrance surfaces of the active optical element. Since the optically transparent passive optical elements have higher mass than optical coatings, they provide vastly superior cooling, and therefore, considerably higher laser damage threshold for the surfaces. Higher damage thresholds results in a significant increase in the performance, reliability, and failure damage safety margin while reducing size and cost of high intensity laser systems and subsystems that utilize active optical elements

Utilised only Reference

Bhar et al; "A proposed tunable coherent 10 m source in noncritically phase matched CdSe and AgGaSe/"; J. Phus, D. Appl Phys., 14 (1981) 1757-60.

#### **Publications Utilised in Patents (Titles of Paper and Patents)**

1. R. L. Prasad, R. Prasad, G. C. Bhar, S. N. Thakur.

"Photoacoustic spectra and modes of vibration of TNT and RDX at CO<sub>2</sub> laser wavelengths."

Spectrochim Acta A Mol Biomol Spectrosc. 58(14):3093-102. Dec. 2002.

U S Patent 7644606: Photoacoustic spectroscopy system and technique for remote sensing of explosives and toxic chemicals

2. G C Bhar, U Chatterjee and P K Datta

"Enhancement of Second Harmonic Generation by Double-Pass Configuration in Ba<sub>2</sub>BO<sub>4</sub>"

Applied Physics B: Photo-Physics and Laser Chemis, 1990, No. 5, Berlin, DE., pp. 317-319.

United States Patent 5909456, 5675593: Laser beam generator

3. G.C. Bhar, U. Chatterjee, A.M. Rudra and P. Kumbhakar,

"Generation of tunable 187.9-196-nm radiation in -Ba<sub>2</sub>BO<sub>4</sub>,"

Optics Letters, vol. 22, No. 21, Nov. 1, 1997, pp. 1606-1608.

U S Patent 6373869: System and method for generating coherent radiation at ultraviolet wavelengths

4. G. C. Bhar, S. Das, and U. Chatterjee, P. K. Datta, and Yu. M. Andreev  
“Noncritically phase-matched second harmonic generation in mixed chalcopyrite crystal”  
App. Phys. Lett. 63, 1316 (1993)  
US Patent 6,508,960 : Telluride quaternary nonlinear optic materials
  
5. G C Bhar, A M Rudra, A K Chaudhary, T Sasaki and Y Mori  
“Highly efficient difference-frequency generation in KTP”,  
Applied Physics B: Lasers and Optics, vol. B63, No. 2, Aug. 1, 1996, pp. 141-144  
U S Patent 5943161: Wavelength conversion device employing Bessel beams with parallel polarization
  
6. G. C. Bhar, D. C. Hanna, B. Luther-Davies, R. C. Smith  
“Tunable down -conversion from an optical parametric oscillator”  
Optics Communications, v.6, p.323 (1972)  
U S Patent 6614584: Laser frequency converter with automatic phase matching adjustment  
U S Patent 3962576: Method and apparatus for automatic generation of phase-adapted coherent secondary radiation in a non-linear crystal  
U S Patent 6834066 : Stabilization technique for high repetition rate gas discharge lasers
  
7. G. C. Bhar and U. Chatterjee,  
“Analyses of Phase-Matching for Noncollinear Three-Wave Mixing in Uniaxial Crystals”, Japanese Journal of Applied Physics, vol. 29, No. 6, pp. 1103-1107 Jun. 1990,  
U S Patent 5136597 : “Poynting vector walk-off compensation in type II phase-matching”
  
8. G C Bhar, S Das and K L Vodopyanov  
“Nonlinear Optical Laser Devices using GaSe,”  
Applied Physics B, vol. 61, pp. 187-190, (1995)  
U S Patent 5980789 : Modified gallium selenide crystals for high power nonlinear optical applications
  
9. G. C. Bhar, S. Das, U. Chatterjee, P. K. Datta, and Yu. M. Andreev  
“Noncritically phase-matched second harmonic generation in mixed chalcopyrite crystal”  
Applied Physics Letters 63, 1316 (1993)  
G C Bhar  
“Refractive Index Interpolation in Phase-matching”  
Applied Optics 15, 305 (1976)  
And carefully bypassed the following publication  
G C Bhar, S Das, U Chatterjee, A M Rudra, R K Route and R S Feigelson  
“Temperature effects in second harmonic generation in AgGaSe<sub>2</sub> crystal”  
Journal of Applied Physics, Volume 74, Issue 8, October 15, 1993, pp.5282-5284  
US Patent 6,508,960 : Telluride quaternary nonlinear optic materials  
Inventors: Jonathan T Goldstein, Melvin C. Ohmer and David E Zelmon
  
10. G C Bhar and R C Smith  
“Silver Thiogallate (AgGaS<sub>2</sub>)-Part II: Linear Optical Properties,”  
IEEE Journal of Quantum Electronics, vol. QE-10, No. 7, (Jul. 1974), pp. 546-550.  
U S Patent 4229073: Iso-index coupled-wave electro-optic filters,  
U S Patent 4589737 : Doped and undoped single crystal multilayered structures

11. G. C. Bhar

“Refractive Index Interpolation in Phase-matching”

Applied Optics at volume 15, page 305 (1976)

US Patent 6,508,960: Telluride quaternary nonlinear optic materials

U S Patent: 6304583: Utilisation of Telluride Quaternary Nonlinear Optic Materials

U.S. patent 4961634 : “Infrared achromatic retarder”

12. G. C. Bhar and G. Ghosh

“Temperature dependent Sellmeier coef and coherence lengths for some chalcopyrite crystals”

Journal of Optical Society of America 69, 730 (1979)

U.S. Patent 4961634 : “Infrared achromatic retarder”

13. G.C. Bhar and R.C. Smith,

“Optical properties of II-IV-V<sub>2</sub> and I-III-VI<sub>2</sub> crystals with Particular reference to transmission limits “

Physica Status Solidi(a) 13, 157 (1972)

German Patent No. DE 19855021 C1. 121: N. Meyer, Phasenbildung im Raum ...

14. G. C. Bhar, L. K. Samanta, D. K. Ghosh, and S. Das,

“A tunable parametric ZnGeP<sub>2</sub> crystal oscillator”

Sov. J. Quantum Electron. 17, 860 (1987)

U.S. patent 5, 611, 856 : “Method for growing crystals,” by

Schunemann; Peter G. (Malden, MA), Pollak; Thomas M. (Amherst, NH)

15. R.K. Tyagi, V.V. Rampal and G.C. Bhar

“FIR generation in LiNbO<sub>3</sub> by optical difference -frequency mixing”

Infrared Phys. 31 (1991), p. 319

U.S. Patent 3330697:

16. D.K. Ghosh and G.C. Bhar,

“Far infrared generation in chalcopyrite crystals”

Indian J. Appl. Phys. B 54 (1980), p. 88.

Japanese Patent 81121.456 : Optical constants of ZnSiAs<sub>2</sub> thin films grown by metal-organic chemical vapor deposition

17. G C Bhar, P Kumbhakar, U Chatterjee, A M Rudra and A Nagahori

“Widely tunable deep ultraviolet generation in CLBO,”

Optics Communications, vol. 176, Mar. 15, 2000, pp. 199-205..

US Patents 6526073, 6198756 : CW far-UV laser system with two active resonators

18. G C Bhar, G C Ghosh and P S Ghosh

“A proposed tunable coherent 16 mm source in noncritically phase-matched CdSe and AgGaSe<sub>2</sub>”

Journal of Physics D: Applied Physics 14, 1757 (1981)

U S Patent 5680412 : Apparatus for improving the optical intensity induced damage limit of optical quality crystals

## **2.26. 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-El, IIT, Kharagpur
2	Sustainable Agriculture with Low Cost Technologies (SALoCT)" Phase II (2009-10)	Rural Technology Action Group: RuTAG-El, IIT Kharagpur

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

**2.27. 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	

**2.28. Publications in past 5 years**

**2.28.1. School of Indian Heritage**

**2.28.1.1. 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.

**2.28.2. Departments of Mathematics, Physics and Computer Science under the School of Mathematical Sciences:**

See details given separately at Annexure I below—the raison d'être, the vision, the faculty, publications etc. of the Departments under the School of Mathematical Sciences as in March 2010

### **2.28.3. Ranchi Faculty Centre**

Papers/Articles published by the following teachers:

#### **Arunava Sengupta**

- i. 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
- ii. 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
- iii. 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**

- i. "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
- ii. "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 Buddhadeb Chaudhuri and Sumita Chaudhuri) Vol.5, 2007. Inter-India Publications: New Delhi
- iii. "Indigenous Performance related to Resource Utilization and Management: The case of the Dhibar of Jharkhand" in *Man and Life*, July-December 2007
- iv. "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
- v. "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.
- vi. "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.
- vii. "Economic life of the Bhoksa Tribe: Tribal economy in the Theoretical Milieu", Accepted for publication in *South Asian Anthropologist*, September 2009
- viii. "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
- ix. *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)
- x. *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**

- i. Dutta, A.K.; Hazra, P. and Pandit, M.K. (2006). Determination of selection indices for pumpkin. *The Horticultural Journal*. 19(3): 298-300.
- ii. 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
- iii. 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
- iv. 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
- v. 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
- vi. 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).
- vii. 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).
- viii. 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).

#### 2.28.4. Narendrapur Faculty Centre

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

##### Dr. Rupak Goswami

##### Research papers:

- i. Basu, D., Banerjee, S., Goswami, R., Biswas, D. (2006). Participatory Weed Assessment for Promoting Precision and Sustainability. *Journal of Crop and Weed*. Jan. 2006.
- ii. 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*.
- iii. 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).
- iv. Basu, D., Banerjee, S., Goswami, R. (2009). Vegetable cultivation on ail (bund): a successful farmer-led technology transfer. *Acta Horticulturae* (ISHS), 809:155-160. [http://www.actahort.org/books/809/809\\_13.htm](http://www.actahort.org/books/809/809_13.htm)
- v. 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. [http://www.actahort.org/books/832/832\\_6.htm](http://www.actahort.org/books/832/832_6.htm)
- vi. Das, A., Basu, D., Goswami, R. (2009). Targeting extension intervention for promotion of sun-

flower productivity in coastal saline zone of West Bengal. *Journal of Crop and Weed*. 5(1):122-126.

vii. 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:**

- i. 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.
- ii. 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.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. 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.
- xi. Goswami, R. (nd) *Extension for environmentally sound Agriculture: Basic theories and agenda for action*. Agro-bios. Jodhpur, Kolkata.

### **Web Publication**

- i. Goswami, R. and Basu, D. (2006) Network Consideration in Adoption Study. [http://www.nrsp.org/database/output\\_view.asp?outputID=3137](http://www.nrsp.org/database/output_view.asp?outputID=3137)
- ii. Goswami, R. and Sarkar, A. (2007) Interpersonal communication pattern of farmers through

key communicators regarding some selected gram panchayat activities. [http://www.nrsp.org/database/output\\_view.asp?outputID=3270](http://www.nrsp.org/database/output_view.asp?outputID=3270)

iii. 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. [http://www.nrsp.org/database/output\\_view.asp?outputID=3870](http://www.nrsp.org/database/output_view.asp?outputID=3870)

iv. Basu, D., Goswami, R., Banerjee, S. (2006) Micro Farming Situation Observed Through Manual Discriminant Analysis. [http://www.nrsp.org/database/output\\_view.asp?outputID=3826](http://www.nrsp.org/database/output_view.asp?outputID=3826)

v. Basu, D., Goswami, R. (2007) Scientific and traditional knowledge - the old issue that never ages :A note for the beginners. [http://www.nrsp.org/database/output\\_view.asp?outputID=3271](http://www.nrsp.org/database/output_view.asp?outputID=3271)

vi. Basu, D., Goswami, R., Banerjee, S. (2006) Farmer innovators: the change agent in pro-poor crop research and extension. [http://www.nrsp.org/database/output\\_view.asp?outputID=3825](http://www.nrsp.org/database/output_view.asp?outputID=3825)

vii. Goswami, R., Sarkar, A. (2008). Interpersonal communication pattern of farmers through key communicators regarding some selected Gram Panchayat activities. [http://www.infobridge.org/asp/output\\_view.asp?outputID=3270](http://www.infobridge.org/asp/output_view.asp?outputID=3270)

viii. Basu, D., Goswami, R. (2007). Scientific and Traditional Knowledge: the Agenda for 'Mutual Validation'. [http://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:

i. 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.

ii. 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.

iii. 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.

iv. 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.

v. 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.

vi. 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.

vii. 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.

viii. 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.

ix. 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.

x. 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.

xi. Moloy Roy, Soumi Banerjee, Md. Nasim Ali and H. K. Sarkar. (2007). Diversity analysis in green-gram [*Vigna radiata* (L.) Wilczek] in different seasons. Environment and Ecology, 25S (2): 431-433.

- xii. Debashis Mandal, Sanjay Kumar Dutta Ray and Md. Nasim Ali. (2007). In vitromultiple shoot induction in selected polyembryonic Citrus sp.J. Botan. Soc., Beng., 61 (1): 33-37
- xiii. Md. Nasim Ali, Suparna Gupta, Somnath Bhattacharyya and H. K. Sarkar(2008). Evaluation of BlackgramVigna mungo (L.) Hepper. Germplasm using multivariate Analysis. .Environment & Ecology, 26 (2A): 943-945.
- xiv. 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
- xv. 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
- xvi. S. S. Aich, Md. N. Aliand B. G. Sasmal. (2008). Genetic divergence analysis of panicle characters of aman rice (Oryza sativa L.), Mysore J. Agric. Sci., 42 (3): 562-564 .
- xvii. 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.
- xviii. 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.
- xix. 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.

## 2.29. Coimbatore Faculty Centre

### 2.29.1. 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 impairedchildren (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

Year	Description of Publication	Author
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
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

### 2.29.2. 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.	

Sl.No	Year	Description of Publication	Author
I: Publication in conferences/seminars:			
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 and Sports 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, Article entitled “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, published by under the University of Calicut.	Sri O.Jiten Singh
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.	

Sl.No	Year	Description of Publication	Author
I: Publication in conferences/seminars:			
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	
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.	

**2.30. Financial position of the deemed university (income-expenditure since the conferment of deemed university status)**

Income-Expenditure Statement (Audited) enclosed—See Appendix

**2.31. Seminars/workshops/conferences/training programmes conducted during the last 5 years since the conferment of the deemed university status:**

**2.32.**

### **2.32.1. Belur Main Campus**

#### **2.32.1.1. School of Mathematical Sciences—Dept. of Mathematics**

- i. One of our faculty members, Mahan Mj, organized an international conference on “Surface Mapping Class Groups” at North Eastern Hill University, Shillong, in June 2008, on being specially requested to organize and coordinate this conference.
- ii. Under the auspices of and sponsorship from Indian Academy of Sciences, a 12-day Refresher Course was organized for college teachers drawn from all over India from 14 to 26 May 2006. The Resource Persons comprised eminent mathematicians and physicists from the various reputed research institutes in India. This Refresher Course was unique in that it was the first time in India that topics in mathematics and physics were discussed in a single workshop for a target group of mathematics and physics teachers. In all, 32 teachers participated in the Workshop, drawn from as many as 11 States of India: Andhra Pradesh, Chhattisgarh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Tamil Nadu, Uttar Pradesh and West Bengal.

#### **2.32.1.2. School of Mathematical Sciences—Dept. of Physics**

- i. The Department of Physics organized a one-day seminar for college/university teachers and research scholars on “Theoretical High Energy physics and Theoretical Condensed Matter Physics” on 26 February 2009.
- ii. An ISRO-sponsored Workshop on ‘Foundations of Space Science & Technology’ was organized by the University in collaboration with Kalpana Chawla Centre for Space and Nanosciences from 11 to 22 June 2007. The venue of the Workshop was Vivekananda Research Centre, located at Swami Vivekananda’s Ancestral House and birthplace at Kolkata, which is an approved Faculty Centre of the University. Undergraduate and postgraduate students including researchers from various disciplines like physics, computer science & engineering, space architecture, space politics, biology etc participated in the Workshop. There was one student of Class XII who was to leave shortly for Sydney, Australia, to study Aerospace Engineering. Several eminent space scientists, physicists, etc. from important research institutes in Kolkata, as well as reputed scientists from ISRO Headquarters, Bangalore, gave lectures accompanied by video-shows, films etc.
- iii. Professor UR Rao, the doyen among space scientists in India, gave a special lecture which was open to public, on 19 June 2007 on Chandrayaan—Indian Moon Mission. He also had a lively interaction session with the participants for nearly two hours, discussing, answering questions and delineating Indian space efforts over the decades. There was a whole-day seminar at Saha Institute of Nuclear Physics under the auspices of Indian Physics Association, on 20 June 2007. The speakers for this seminar were drawn mainly from ISRO and included Professor UR Rao, Dr P Soma and Dr SC Chakrabarty. The student-participants attended the seminar. On the whole, the 12-day Workshop created tremendous awareness and enthusiasm in the young intelligent students, spurring them on to consider space science as their future career. A certificate of participation was given to all the participants.
- iv. As a sequel to the above Workshop on space science and technology which was a great success, three more similar workshops were conducted, this time for a full two weeks, from 1 to 14 June, both in 2008 and 2009 and from 9 to 22 May 2010. On account of this sustained effort for three consecutive years, awareness about and interest in space science and technology grew

considerably in the eastern part of India. The target audience once again was university and college students of various disciplines.

### **2.32.1.3. School of Mathematical Sciences—Dept. of Computer Science**

The Department of Computer Science organized two talks by the following illustrious professors of computer science of international repute on 17 February 2008. The talks were attended and well received by the students of various institutions.

- i. Prof Chee Yap of the Department of Computer Science, New York University spoke on ‘Is it really zero?’
- ii. The above talk was followed by another important talk by Prof Janos Pach of the Department of Mathematics, New York University, on ‘Chaos and Order in Mathematics’.
- iii. Prof Vijay Natarajan, Supercomputer Education Research Centre, Indian Institute of Science, Bangalore, delivered a talk on ‘Feature-directed Visualization’ on 21 January 2009.

### **2.32.1.4. School of Indian Heritage**

#### **2.32.1.4.1 Department of Sanskrit**

A 15-day workshop on ‘Functional Sanskrit—Preliminary Level’ was conducted under the joint auspices of the University and Ramakrishna Mission Institute of Culture, Gol Park, from 18 September to 5 October 2007. Nearly 60 participants attended the workshop for full two weeks. Classes, interactive sessions, spoken and written Sanskrit practice sessions etc were conducted throughout the day for these 15 days. The workshop created great enthusiasm among the participants. In response to a demand for a follow-up workshop at a slightly higher level, a follow-up workshop was held in December 2007. The two week workshop on ‘Functional Sanskrit’ has now become a regular feature and starting from 2007, it has been organized each following years, 2008, 2009 and 2010.

#### **Report of the two-day National Seminar, Vedanta-vakyartha-sabha, held on 19 and 20 February 2010 on the occasion of Sri Ramakrishna’s birthday as indicated and desired by Swami Vivekananda**

A National Seminar on Vedanta was held on 19 and 20 February 2010 on the occasion of Sri Ramakrishna’s birthday in an attempt to actualize Swami Vivekananda’s vision in this regard. The details of this seminar are given below.

#### **National Seminar: Vedanta Darshana Vakyartha Sabha in the Light of the Three Major Vedantic Schools, Advaita, Vishishtadvaita and Dvaita**

Swami Vivekananda wanted the grand truths of Vedanta embedded in our Vedanta scriptures—the prasthanatraya, namely, Upanishads, Brahma Sutras and Bhagavad-Gita—to be taught to everybody irrespective of any distinction, so that the whole nation may become strong and powerful by imbibing the sublime ideas of Vedanta. He also emphasized that these great Vedantic truths should be put into practice and applied to the society to building up a vigorous and spiritually powerful society with men and women of impeccable character imbued with the realization of the Atman as taught in the Vedanta scriptures, particularly the Upanishads.

Swami Vivekananda also emphasized that the three great major schools of Vedanta, Advaita, Vishishtadvaita and Advaita, are not contradictory at all. To quote his own inspiring words:

“Unfortunately there is the mistaken notion in modern India that the word Vedanta has reference only to the Advaita system; but you must always remember that in modern India the three Prasthanas are considered equally important in the study of all the systems of religion. First of all there are the Revelations, the Shrutis, by which I mean the Upanishads. Secondly, among our philosophies, the Sutras of Vyasa have the greatest prominence on account of their being the consummation of all the preceding systems of philosophy. These systems are not contradictory to one another, but one is based on another, and there is a gradual unfolding of the theme which culminates in the Sutras of Vyasa. Then, between the Upanishads and the Sutras, which are the systematising of the marvellous truths of the Vedanta, comes in the Gita, the divine commentary of the Vedanta.

“The Upanishads, the Vyasa-Sutras, and the Gita, therefore, have been taken up by every sect in India that wants to claim authority for orthodoxy, whether dualist, or Vishishtadvaitist, or Advaitist; the authorities of each of these are the three Prasthanas. We find that a Shankaracharya, or a Ramanuja, or a Madhvacharya, or a Vallabhacharya, or a Chaitanya -- any one who wanted to propound a new sect -- had to take up these three systems and write only a new commentary on them. Therefore it would be wrong to confine the word Vedanta only to one system which has arisen out of the Upanishads. All these are covered by the word Vedanta. The Vishishtadvaitist has as much right to be called a Vedantist as the Advaitist; in fact I will go a little further and say that what we really mean by the word Hindu is really the same as Vedantist. I want you to note that these three systems have been current in India almost from time immemorial; for you must not believe that Shankara was the inventor of the Advaita system. It existed ages before Shankara was born; he was one of its last representatives. So with the Vishishtadvaita system; it had existed ages before Ramanuja appeared, as we already know from the commentaries he has written; so with the dualistic systems that have existed side by side with the others. And with my little knowledge, I have come to the conclusion that they do not contradict each other.”

In the light of the above reconciliatory vision of Swami Vivekananda, we organized a National Seminar: Vedanta Darshana—Vakyartha Sabha, on 19 and 20 February 2010 on the occasion of the birth anniversary of Sri Ramakrishna to discuss the prasthana-traya, Upanishads, Brahma Sutras and Bhagavad-Gita, as interpreted by the great Acharyas of the Advaita, Vishishtadvaita and Dvaita tradition and a possible reconciliation of these systems in the light of Ramakrishna-Vivekananda Vedanta thought.

We invited the teachers of the Sanskrit Departments of colleges and Universities, as well as the postgraduate students and research scholars in Sanskrit to participate in this important Seminar. Altogether, nearly 90 participants attended including postgraduate students and research scholars, university and college teachers and monks. The entire seminar proceedings took place in Sanskrit medium and it was delight to listen to scholars expressing and exchanging their views in mellifluous Sanskrit.

## **Programme Details**

### **19 February 2010 (Friday): 9.15 am – 4.45 pm**

Inaugural session: 9.15 – 10.30 am:

- i. Welcome Address by Swami Atmapriyananda, Vice Chancellor
- ii. Inaugural Address and Benediction by Swami Smarananandaji Maharaj, Vice President, Ramakrishna Math and Ramakrishna Mission, Belur Math
- iii. Introductory Remarks on the theme of the Seminar: Swami Vedatattwananda, Ramakrishna Math Vivekananda Vedavidyalaya, Belur Math

1st technical session: 10.30 – 11.45 am: Discussion on the Upanishads in the light of the interpretations of the

Advaita, Vishistadvaita and Dvaita Schools

2nd technical session: 2 – 3.30 pm: Discussion on the Brahma Sutras in the light of the interpretations of the Advaita, Vishistadvaita and Dvaita Schools

3rd technical session: 3.45 – 4.45 pm: Interaction among the speakers and the scholars in the audience on the preceding discussions on Upanishads and Brahma Sutras

20 February 2010 (Saturday): 9.15 am – 4 pm

4th technical session: 9.15 – 10.30 am: Discussion on the Bhagavad-Gita in the light of the interpretations of the Advaita, Vishistadvaita and Dvaita Schools

5th technical session: 10.30 – 11.30 am: Interaction among the speakers and the scholars in the audience on the preceding discussion on Bhagavad-Gita

Valedictory session:

2 – 3 pm: Brief summing up by each of the speakers

3 – 4 pm: Interaction/discussion among the speakers and the scholars in the audience

Resource Persons: Professors who spoke and deliberated upon the prasthanatraya of Vedanta in the light of the interpretations of the three Vedantic Schools, Advaita, Vishistadvaita and Dvaita

» Advaita School:

- i. Mahamahopadhyaya Professor R. Krishnamurthy Shastri, former Principal, Madras Sanskrit College, Chennai, Tamil Nadu
- ii. Dr Ramachandra Bhat Kotemane, Principal & Acharya, Veda Vijnana Gurukulam, Channenhalli, Bengaluru, Karnataka

» Vishistadvaita School:

- i. Professor K.E. Devanathan, Department of Vishistadvaita Vedanta, Rashtriya Sanskrit Vidyapeetha, Tirupathy, Andhra Pradesh
- ii. Dr Umesh Nepal, Jagadguru Ramanandacharya Rajasthan Sanskrit University, Jaipur, Rajasthan

» Dvaita School:

- i. Dr A.V.Nagasampige, Director, Poornaprajna Samshodhana Mandiram, Bengaluru, Karnataka
- ii. Dr Srinivasa Verkhedi, Director, Adarsha Shodha Sansthan (Research Centre recognized by Rashtriya Sanskrit Sansthan under the Ministry of Human Resource Development, Government of India), Osmania University Campus, Hyderabad, Andhra Pradesh

Compere: Swami Vedatattwananda, Ramakrishna Math Vivekananda Vedavidyalaya, Belur Math

Venue: Vivekananda Hall, first floor of Ramakrishna Mission Vidyamandira, Belur Math

### **2.32.1.4.2 Indian Cultural and Spiritual Heritage including Value Education:**

A two-day workshop was held in collaboration with World University Service, New Delhi, on 1 and 2 March

2008, at the following venue: Ramakrishna Mission Institute of Culture, Gol Park, Kolkata. The following write-up circulated on the occasion delineates the objectives of the workshop:

“The Contemporary University, like the communities in which it is embedded, is in the midst of massive change. The change we experience in a world full of competition and disturbances of various nature makes society turbulent. This change affects the entire planet and practically every field and condition of individual and social life, activity and relationships. Society is ill-equipped and still struggling to cope with this crisis. The most important dimension of this crisis is the ‘moral crisis’ which has led to a deterioration in human values in practically every sector of human endeavour. The forces of Modernization have drawn heavily upon education, especially Higher Education. It is Education which can provide answers and make the much needed contribution by providing appropriate value-based Education. Education can provide young people the knowledge, skills and attitudes they will need to meet the major challenges of our contemporary society. Due to emerging global and market pressures on the education system, the marginalized sections of the society are the worst sufferers within the university system. Unless urgent steps are taken to ensure equitable educational opportunities for these sections, our education system as well as the society at large faces the risk of a value explosion and a gulf which may perhaps never be filled. WUS believes this situation can only be addressed by appropriate value based education, the only key towards sustainable human development.

To work towards this end, and to provide a platform for a dialectical process between the representatives of higher education and various critical sectors of society, the World University Services has decided to hold a two day National Seminar on 1 and 2 March 2008 at Kolkata, West Bengal. The Seminar, among other issues, will discuss strategies to ensure a value-based education for all based on the principles of human rights and equality of opportunities. The conference will deliberate on the meaning and definitions of value education and sustainable development, role of students and teachers in value creation, social responsibility of the universities and social, political and metaphysical dimensions of education in the context of higher education.”

The participants were university students and teachers actively engaged in social and community activities within their respective universities and the resource persons were eminent educationists, policy makers and renowned persons from various sections of society.

The hope was that at the end of two days the Conference would prepare a practical and synergetic action plan for future networking and work with the universities in the area of value education. The conference also hoped to propose minimum workable and desirable guidelines for universities to ensure the fulfillment of their social responsibility and to carry forward the task of education for all on the principles of inclusion of all in a rights-based society.

### **2.32.1.4.3 Ancient Indian Scientific Heritage**

In collaboration with Vijnana Bharati (Bengal Chapter—Vivekananda Vijnana Mission) the University organized a two-day National Seminar on “Indian Scientific Heritage: Aryabhata to Harish Chandra”, on 23 and 24 February 2007. Eminent speakers from all over India spoke on the contributions made by Indian scientists spanning nearly two millennia. The objective of the seminar was to present the scientific achievements by Indian scientists in semi-technical language so that the teacher and student community of the present day might get exposed to them and derive inspiration from the unbroken spirit of scientific enquiry and logical thinking which has been a distinct characteristic of the Indian mind.

The seminar was divided into roughly two parts: the first part dealt with the discoveries in ancient India (pre-1000 AD), while the second part dealt with the more recent discoveries of the twentieth century. By pitching these two sets of achievements side by side, it was affirmed that the quest for scientific truth was a timeless one, and notwithstanding a gap of almost a millennium between the times when these two sets of discoveries were made, the spirit of scientific enquiry has remained unclouded.

Nearly 500 delegates attended the seminar out of the 627 delegates who initially got enrolled, of which 176 were students at the college/university level, 162 were teachers at the college/university level, and 289 were from various walks of life, but deeply interested in the theme of the seminar. While the number of delegates from West Bengal was the highest, there were representatives from Andhra Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Maharashtra, Orissa, Tamil Nadu and Tripura.

Several renowned scholar-teachers spoke at the seminar. The two-day conference made a powerful impact on the audience and made them not only well aware of the contributions of Indian scientists, ancient and modern, but also gave them impetus and self-confidence to pursue science with the spirit of relentless and objective enquiry that has characterised Indian scientists all along for more than a millennium.

### 2.32.2. Ranchi Faculty Centre

A three-day workshop on 'Integrated Rural and Tribal Development' was held at the Ranchi (Morabadi) 'Off-campus' Centre on 13, 14 and 15 January 2007. There were in all 229 participants from 32 organizations, some which had displayed their products and achievements through pavilions and stalls. A commemorative souvenir titled 'Hariali' was released on this occasion. The objective of this workshop was to highlight and underscore the importance of 'integrated rural and tribal development' if a strong, self-reliant, economically powerful, and above all, a morally strong India was to be built.

### 2.32.3. Narendrapur Faculty Centre

Year	Seminars conducted	Workshops conducted	Training programmes conducted
2007	WTO and Indian Agriculture Bioprospecting and application of Medicinal plants in common ailments Microeconomic Theory and Rural Management	Participatory Impact Monitoring and Assessment	-
2008	Sustainable uses of natural resources from medicinal and aromatic plants	Scientific management of solid waste	Training of trainers programme on community based disaster risk management (CBDRM)

### 2.32.4. Coimbatore Faculty Centre

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

Sl.No.	Year	Conference/ Training programme
2005 Seminar		
1	2005	Seminar on Career Opportunities in Special Education conducted: A one-day seminar on Career Opportunities in Special Education and Rehabilitation was conducted by the IHRDC in collaboration with the Rehabilitation Council of India at Coonoor on 26 March 2005. Swami Vishveshananda, Secretary – IHRDC inaugurated the seminar, which was attended by more than 50 headmasters and teachers working in different schools of The Nilgiris district. A press conference was also organised in this connection. The seminar created awareness among the participants about the disability issues and career opportunities available in special education and rehabilitation.
2	2005	Seminar on Loan Facilities for SHGs: A Seminar on loan facilities for Self-Help Group for starting large scale industries was jointly organized by DRDA and IHRDC on 7 October 2005. Sri C.Kosalaraman, District Collector inaugurated the seminar and presented loan assistance to clients. Swami. Vishveshananda, Secretary, IHRDC presided. Officials from District Administration, Cooperative Banks and NGOs participated in the function besides staff of IHRDC.
2007 Seminar		
1	2007	Seminar on 'Career Opportunities in Special Education and Rehabilitation: A seminar on 'Career Opportunities in Special Education and Rehabilitation' for the heads of higher secondary schools and matriculation schools was organized on 17 March 2007. Sri Kaliappan, ADPC, Sarva Shiksha Abhiyan, Coimbatore District, Sri L. Sivasamy, District Employment Officer, and Dr. N. Muthiah, Principal, Ramakrishna Mission Vidyalaya College of Education, served as resource persons.
2005 Workshop		
1	2005	Workshop on Teaching of Mathematics conducted: A workshop on Teaching of Mathematics and use of Mathematical Aids and Appliances, sponsored by the National Institute for the Visually Handicapped was conducted in the IHRDC during 17 – 28 January 2005. A total of 46 participants from the states of Tamil Nadu, Kerala, Karnataka, Andhra Pradesh and Orissa participated in the course. The course gave insight regarding teaching methodology in teaching children with visual impairments and the use of appliances like abacus etc.
2	2005	Workshop on SSA-IED: A training programme on "Inclusive Education for Disabled Children" for special educators working under the Sarva Shiksha Abhiyan programme and the faculty members working in the various District Institutes of Education and Training was organized in the IHRDC in three batches on 9-10, 11-12 and 14-15 February 2005. A total of 90 professionals participated in the three programmes which were conducted in collaboration with the DTERT.

Sl.No.	Year	Conference/ Training programme
3	2005	Workshop on Development of Signs for Maths and Science: A three day workshop with an objective of developing signs for mathematical and scientific terms at secondary level was conducted in the IHRDC from 28 February to 02 March 2005. 26 teachers teaching deaf children from the states of Tamil Nadu and Kerala participated in the workshop.
4	2005	Workshop on material preparation for the CBR Course: A workshop to prepare reading materials for the theory and practicum papers of the Diploma in Community Based Rehabilitation course was conducted in the IHRDC on 28 – 29 March, 2005. Teaching faculty members from the departments of Visual Impairment, Hearing Impairment, Mental Retardation and Locomotor Disability participated in the workshop and brought out a draft package of learning materials for the DCBR course. The package will be published for the benefit of students in the future.
5	2005	Workshop on Preparation of Training Manual for regular teachers: An in-service training module for regular teachers on inclusive education for disabled children was brought out by the Directorate of Teacher Education, Research & Training in collaboration with the IHRDC. In this connection a three day workshop was organised at IHRDC for the DTERT and the IHRDC faculty to develop materials for this manual. The manual contains information on inclusive education and serves as a sourcebook for regular teachers to create awareness on inclusive education.
6	2005	Workshop for development of Question Bank conducted: A workshop with an objective of developing Question Bank for DSE course. Segment IV was organized in the IHRDC on 20 and 21 June 2005. Staff members handling the respective papers of Segment IV participated in the workshop and prepared a draft version of the question bank which will be published soon.
7	2005	Workshop on Integrated Education: A workshop on Integrated Education for the Disabled Children in collaboration with the Sight Savers International was organized in the Centre from 7 to 15 November 2005. A total of 23 teachers working in Integrated Education Programs supported by the Sight Savers International from the states of Andhra Pradesh, Karnataka and Tamil Nadu participated in the workshop.
2006 work shop		
1	2006	Workshop on Inclusive Education: A workshop on Inclusive Education was organized by DTERT, Chennai on 6 and 7 January 2006 in the IHRDC. 85 participants comprising DIET faculty members, special educators working in integrated and inclusive education programmers attended the workshop. A similar workshop was also organized at DIET, Thirumurthi Nagar, Udumalpet on 9 and 10 in which 4 special educators from IHRDC participated.

Sl.No.	Year	Conference/ Training programme
2	2006	Workshops on Community Based Rehabilitation: During the period July through September, two workshops on Community Based Rehabilitation, in collaboration with the Sight Savers International, were conducted in the IHRDC.
3	2006	The first workshop with 14 participants from Service Civil International – India, Chennai was conducted during 4 -25 July.
4	2006	The second workshop with 13 participants from Centre for Tribal and Rural Development, Gudalur was conducted during 1 – 31 August. Both the workshops enabled the participants and the organization concerned to commence Community Based Rehabilitation for the persons with visual impairments in their respective places.
5	2006	Workshops on Community Based Rehabilitation: Another workshop on Community Based Rehabilitation, for staff from Service Civil International – India, Mamallapuram and CADRE – India, Nagercoil and Sankara Eye Society, was conducted during 9 -25 January. The workshop was sponsored by Sight Savers International. A total of 25 staff members from the three organizations participated in the workshop.
6	2006	Workshops on development of Signs: A workshop with an objective of developing signs for Chemistry and Biological terms at the secondary level was conducted in the centre from 26 to 30 September. 35 teachers working in various schools for the deaf from Tamil Nadu and Kerala participated in the workshop.
7	2006	Workshop on Information and Communication Technology: A Continuing Rehabilitation Education programme on Information and Communication Technology was conducted in the Centre between 3 – 7 October with support from the Rehabilitation Council of India. 15 professionals working in various institutes from the states of Tamil Nadu and Kerala participated.
8	2006	Workshop on Integrated Education: A workshop on Integrated Education for the Disabled Children in collaboration with the Sight Savers International was organized in the Centre from 7 to 15 November. A total of 23 teachers working in Integrated Education Programmes supported by the Sight Savers International from the states of Andhra Pradesh, Karnataka and Tamil Nadu participated in the workshop.
2007 Work shop		
1	2007	A Zonal Workshop on RCI Act Amendments was organized on 27 March 2007. Thirteen professionals from Tamil Nadu and Kerala participated.

Sl.No.	Year	Conference/ Training programme
2	2007	Workshop on Early Intervention for Wholesome Development of Intellectually Challenged Children: The Faculty of General and Adapted Physical Education and Yoga and the Faculty of Disability Management and Special Education jointly organized a workshop on 'Early Intervention for Wholesome Development of Intellectually Challenged Children' on 27 October 2007. The resource persons were Dr Muthiah, Principal, College of Education, Ramakrishna Mission Vidyalaya, Mrs. C. V. Jayanthi, and Sri. S. Natarajan from Chidambaram. Staff, students, SSA coordinators and parents participated.
2008 Work shop		
1	2008	The faculty organised a workshop for service providers of special children on 24 March 2008. Dr. Sandeep Khanna, Additional Secretary to the Government of India, Ministry of Social Justice and Empowerment, New Delhi was the Chief Guest. Dr T.C. Sivakumar, Director, NIMH, addressed the participants. Dr. P. Jeyachandran, Director, Vijay Human Services, and representatives from 21 NGOs, 39 special educators, staff, and students participated. The event was presided over by Swami Atmaramananda, Secretary, Ramakrishna Mission Vidyalaya.
2	2008	Workshop on Preparation of Braille Books for Primary Classes: Sri M. Subramanian and Sri R. Sankaranarayanan participated in the one day workshop for teachers and Braille press workers on 'Preparation of Braille Books for Primary Classes' held at NIVH, Poonamalli, Chennai, on 20 September 2008.
3	2008	The faculty organised a workshop for service providers of special children on 24 March 2008. Dr. Sandeep Khanna, Additional Secretary to the Government of India, Ministry of Social Justice and Empowerment, New Delhi was the Chief Guest. Dr T.C. Sivakumar, Director, NIMH, addressed the participants. Dr. P. Jeyachandran, Director, Vijay Human Services, and representatives from 21 NGOs, 39 special educators, staff, and students participated. The event was presided over by Swami Atmaramananda, Secretary, Ramakrishna Mission Vidyalaya.
2009 work shop		
1	2009	Workshop on Sign Language: A workshop on Developing Technical Sign Language Dictionary (CD Form) was conducted during 12-13 January 2009.
2	2009	National workshop on Inclusive education of the visually impaired children – challenges & opportunities was conducted during 20-21 March 2009. Nearly 150 participants (including our staff and students) attended this workshop which was sponsored by NIVH, Dehradun. Dr. S.R. Mittal, Professor, Department of Education, Jamia Milia Islamia, Delhi, Mr. A.K. Mittal, President, All India Confederation of the Blind, Dr. Anitha Jhulka, Reader, NCERT, Delhi, Mr. Y.Krupanandam, Asst. Director, NIVH, Dehra Dun, Dr. I. Arivanandham, Regional Director In-charge, Chennai Regional Centre, Chennai and Dr. S.K. Sundaramoorthy, Chairman, Lotus Eye Care Hospital were the resource persons.

Sl.No.	Year	Conference/ Training programme
3	2009	National Workshop on “Inclusive education of the visually impaired children - challenges & opportunities” was conducted during 20-21 March 2009. Nearly 150 participants attended this workshop which was sponsored by NIVH, Dehradun.
2005 conference		
1	2005	NCTE Meeting conducted: A meeting of the National Council of Teacher Education – Southern Regional Committee (NCTE – SRC) was conducted in the IHRDC on 29 August. Subsequently a brain storming workshop on present role and future expectations of NCTE was conducted on 30 August in collaboration with the RKMVERI. 45 Principals of Colleges of Education and Teacher Training Institutes from the NCTE – Southern Region participated. Prof. Shardindu, Chairperson, NCTE, Prof. P. Venkataramaiah, Chairman, NCTE – Southern Regional Committee, Bangalore, Sri Mohandas, Regional Director and members of the Southern Regional Committee were also present. The workshop was inaugurated by Dr. S. Sivasubramaniam, Vice-chancellor, Bharathiar University, Coimbatore and Swami Atmaramananda, Secretary, Ramakrishna Mission Vidyalaya, Coimbatore, delivered a Special Address. Dr. S. Lakshmi, Former Vice-chancellor, Mother Theresa University was honoured on the occasion for her outstanding contribution to the field of teacher education.
2	2005	Parents Meet of Children with Cognitive Challenges: Parivaar, Sarathy – Pammac and National Institute for the Mentally Handicapped (NIMH) jointly organized a National Level Meeting of the parents of mentally retarded children at Tamil Nadu Agricultural University, Coimbatore during 12 and 13 November. Dr. M.N.G. Mani, Director, IHRDC served as the Chairman of the Organizing Committee for the National Meet and also presented a paper on Self-Help Group for the persons with disabilities. Staff and students of the Faculty of Disability Management and Special Education acted as volunteers in organizing this meet.
2008 conference		
1	2008	Mrs. Kamakshamma Murthy participated in the first meeting of the Braille Council of India (BCI) at NIVH, Dehradun, on 12 and 13 September 2008.
2005 Training Programme		
1	2005	Orientation Programme on Computer Technology: A one-day orientation programme on Computer Technology for visually impaired students studying in various colleges of Coimbatore was conducted in the IHRDC on. A total of 19 visually impaired students attended the programme. The day long session included basic ideas regarding the computers and introduction to the software developed by WEBEL Mediatronics, Kolkata.

Sl.No.	Year	Conference/ Training programme
2	2005	Training Programme for SSA faculty: A training programme on IED for SSA Special Educators and Block Resource Teachers from the Nilgiris District was organized in the IHRDC from 28 February to 01 March 2005. 20 Block Resource Teachers and 5 Special Educators working under the SSA programme from four blocks of the Nilgiris district participated in the programme.
3	2005	Training Programme for ICDS workers conducted: A training programme on Inclusive Education was organized at Ooty on 24 March 2005 for ICDS workers working in the Nilgiris district. Another training programme on IED for the ICDS workers working in the Gudalur block of The Nilgiris district was conducted at Gudalur on 28 March 2005. 200 ICDS workers were benefitted by this programme.
4	2005	Computer Training Programme for the Blind: Computer Orientation Programmes for visually impaired officials working in colleges and other organizations in Coimbatore district was conducted in the IHRDC on 10, 17 and 24 of April 2005. The course content included MS Word, MS Office, JAWS and Internet.
5	2005	Orientation programme on Eye Care: Under the inclusive education programme of the Sarva Shiksha Abhiyan (SSA – IED), an orientation programme on eye care was organized in association with the Sankara Eye Hospital, Coimbatore on 15 July. Special educators working in all the 22 blocks of Coimbatore District attended the programme, which enabled them to understand various measures to be taken in preserving eyes.
6	2005	RCI-CRE conducted: A Continuing Rehabilitation Education programme on Information and Communication Technology was conducted in the Centre between 3-7 October 2005 with support from the Rehabilitation Council of India. 15 professionals working in various institutes from the states of Tamil Nadu and Kerala participated
7	2005	Computer Training Programme for the Blind: Computer Orientation Programmes for visually impaired officials working in colleges and other organizations in Coimbatore district was conducted in the IHRDC on 10, 17 and 24 of April 2005. The course content included MS Word, MS Office, JAWS and Internet.
8	2005	Training programmes on maintenance of Braille Machines: A training programme on maintenance and servicing of faulty Braille machines was organized on 7 & 8 July at IHRDC. Resource teachers working in the integrated education programmes of Tamil Nadu and Pondicherry participated. The training programme enabled the participants to maintain the braille machines and also to service the faulty ones.
2006 Training programme		

Sl.No.	Year	Conference/ Training programme
1	2006	A Continuing Rehabilitation – Recent Trends in Teaching of Mathematics: A CRE programme on Recent Trends in Teaching of Mathematics was conducted during February 20 -24. A total of 12 professionals working in the field of visual impairment from Tamil Nadu participated in the programme. Various aspects pertaining to teaching of mathematics to children with visual impairments such as Braille, Nemeth Braille Code, Abacus, Taylor Frame, preparation of teaching learning materials etc. were deliberated at length during the five days of the programme.
2007 Training programme		
1	2007	Training in cross-disability management: A training programme on cross-disability management was organized for the special educators working under the SSA-IED scheme in Coimbatore district from 19 to 24 February 2007. Forty-four special educators attended. The training enabled the participants to refresh their knowledge regarding the management of children with disabilities. Two similar programmes were conducted, one from 7 to 11 May 2007 for 27 special educators working in the SSA programme in Erode District, and another from 14 to 18 May 2007 for 41 special educators working in the SSA programme in Dindigul and Theni Districts.
2	2007	Orientation in the Play Therapy unit: Eight mentally retarded children from T.A.T. Kalanilayam Middle School were given orientation in the Play Therapy unit of the faculty from 27 June to 5 July 2007.
3	2007	Training of parents: A training programme for the parents of mentally retarded children was conducted from 9 to 13 July 2007. Twenty parents participated and were given participation certificates.
4	2007	Training Master Trainers: A training programme for Master Trainers in Teaching Methods for Mental Retardation, preparing Teaching Learning Materials (TLM) and Behaviour Modification was organized from 20 to 24 August 2007. Twenty-two Master Trainers participated.
5	2007	Presentation on the computer software: Dr. Goswami from 'Media Lab Asia' gave a presentation on the computer software developed by them for the benefit of special children, on 8 September 2007. The Vice-Chancellor Swami Atmapriyananda, Administrative Head and Secretary, Swami Atmaramananda, the Registrar Swami Sarvapriyananda, heads of Vidyalaya institutions, staff of the Faculties of General & Adapted Physical Education and Yoga, and Disability Management and Special Education attended the programme.
6	2007	Master Training Programme for parents and Special Educators was conducted from 26 to 30 November 2007. Twenty-three persons participated.
7	2007	The MEd. (MR) students attended a programme on Autism organized by Shivesh Autism Centre, Avarampalayam, Coimbatore on 9 December 2007.
2008 Training Programme		

Sl.No.	Year	Conference/ Training programme
1	2008	Demonstration of interactive software for the hearing impaired: On 17 May 2008, staff members, Mrs. M. Lakshmi, K. Dhanalakshmi, and G. Poongothai, participated in a demonstration of interactive software for the hearing impaired, deaf, and blind persons at Coimbatore. Institute of Electronic and Telecommunication Engineers, Coimbatore, arranged this programme.
2	2008	The second batch of Care Givers Training (3 months course) commenced on 15 July 2008. Four candidates are undergoing training.
3	2008	A short-term training programme on Braille Enrichment for the teachers of the visually impaired children sponsored by NIVH Dehradun started from 25 August 2008. Twenty nine participants are undergoing this training. Sixteen teachers are from Government schools from all over Tamil Nadu and others are from SSA programmes. The valedictory function of the programme was conducted on 12 September 2008. Dr. I. Arivanandam, Regional Director I/c delivered the valedictory address.
4	2008	Following experts spoke to the delegates: Mr. Amalraj, Vice-President, National Federation of the Blind, Chennai, and an expert in Braille delivered guest lecture to the participants on 01.09.2008. Mr. Kasimani, Braille Teacher from NIVH, Regional Centre, Chennai delivered guest lecture on 02.09.2008. Mr. K. Rajagopal, Lecturer, NKT College of Special Education, Chennai delivered guest lecture on 04.09.2008. Mr. S.M.A. Jinnah, General Secretary, Indian Association for the Blind, Madurai, delivered guest lecture on 09.09.2008
5	2008	The second batch of Care Givers Training (3 months course) commenced on 15 July 2008. Four candidates are undergoing training.
6	2008	A short-term training programme on Braille Enrichment for the teachers of the visually impaired children sponsored by NIVH Dehradun started from 25 August 2008. Twenty nine participants are undergoing this training. Sixteen teachers are from Government schools from all over Tamil Nadu and others are from SSA programmes. The valedictory function of the programme was conducted on 12 September 2008. Dr. I. Arivanandam, Regional Director I/c delivered the valedictory address.
2009 Training programme		
1	2009	Awareness programme for College students on disability was conducted for 21 students of GRD College of Arts & Science on 7 March 2009.
2	2009	Sensitization Program: Eighty Seven students from Ramakrishna Mission Vidyalaya College of Arts & Science attended one day Awareness Programme in Special Education on 5 October 2009 (50 students) and 9 October 2009 (37 students).

Sl.No.	Year	Conference/ Training programme
3	2009	Training programmes on maintenance of Braille Machines: A training programme on maintenance and servicing of faulty Braille machines was organized on 7 & 8 July at IHRDC. Resource teachers working in the integrated education programmes of Tamil Nadu and Pondicherry participated. The training programme enabled the participants to maintain the braille machines and also to service the faulty ones.
4	2009	A training programme on autism for parents and teachers was held during 20-21 February 2009. Dr. Sethupathi, Child specialist, Coimbatore inaugurated the training programme and Dr. N. Muthaiah, Principal, Vidyalaya College of Education handled the concluding session and delivered the valedictory address. Forty six participants underwent this training programme
5	2009	Awareness programme for college students on disability was conducted for 21 students of GRD College of Arts & Science on 07-03-2009.
6	2009	The induction programme for the B.Ed. (Special Education) students of Tamil Nadu Open University, Chennai was conducted on 25 & 26 April 2009. Thirty seven students attended the programme. The inaugural function was held on 25.04.09. Swami Tatprabhanandaji delivered the inaugural address. Dr. Pramila, Faculty, Tamil Nadu Open University, participated in the inaugural programme and addressed the students.

**2.32.4.2. Faculty of 'General & Adapted Physical Education and Yoga'**

Sl.No.	Year	Conference/ Training programme
2009 Seminar		Seminar on Multiple approaches towards intellectually challenged children: The Faculty of General and Adapted Physical Education and Yoga and the Faculty of Disability Management and Special Education jointly organized a seminar on "Multiple approaches towards intellectually challenged children" on February 2009.
2007 Work shop		Workshop on Early Intervention for Wholesome Development of Intellectually Challenged Children: The Faculty of General and Adapted Physical Education and Yoga and the Faculty of Disability Management and Special Education jointly organized a workshop on 'Early Intervention for Wholesome Development of Intellectually Challenged Children' on 27 October 2007. The resource persons were Dr Muthiah, Principal, College of Education, Ramakrishna Mission Vidyalaya, Mrs. C. V. Jayanthi, and Sri. S. Natarajan from Chidambaram. Staff, students, SSA coordinators and parents participated.
2007 Training programme		

Sl.No.	Year	Conference/ Training programme
1	2007	Talent Identification in Sports: 61 students of our faculty were engaged in spotting Sporting Talents of boys below the age of 12 at various schools in Coimbatore District. Nearly 6000 students were screened in nine days from 03.10.07 to 12.10.07. This program was organized in collaboration with Maruthi College of Physical Education.
2	2007	Presentation on the computer software: Dr. Goswami from 'Media Lab Asia' gave a presentation on the computer software developed by them for the benefit of special children, on 8 September 2007. The Vice-Chancellor Swami Atmapriyananda, Administrative Head and Secretary, SwamiAtmaramananda, the Registrar Swami Sarvapriyananda, heads of Vidyalaya institutions, staff of the Faculties of General & Adapted Physical Education and Yoga, and Disability Management and Special Education attended the programme.
3	2008	Unified Play Day: It is an offshoot of Special Olympics and the concept has been put into trial in a few western countries. This is first time an attempt has been made in India. In this 137 Intellectually Challenged children (85 boys and 52 girls) and 137 normal children (86 boys and 51 girls) participated in the play day demonstration. They were also exposed to music therapy, play therapy, physiotherapy and kolam therapy. 184 parents and 68 teachers witnessed their children's performance in variety of activities. The chief guests were Sri Premchand Kashyap, Executive Director, Sports Authority of India, Sri Troy W. Grieson, Managing Director, Special Olympics Asia Pacific, Air Marshall Denzil Keelor chairman, Special Olympics Bharat, Dr. D. Raja Sabapathi, Director, Ganga Medical Centre, and Sri R. Rajendran of GKD group of companies. The resource persons were Dr. Meena was the resource person for Music therapy, Dr. Gayathri for Kolam and Dr. Shanmuga Ganesan for Psychotherapy units.
4	2009	Coaching: Our faculty students of I & II MPed gave coaching in different games at various schools and colleges of Coimbatore district.

### 2.33. Conferences attended by the faculty (department-wise) during the last 5 years since the conferment of the deemed university status:

#### 2.33.1. Belur Main Campus

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

Workshops, conferences, invited talks etc by the following faculty members:

#### **Dr Kingshook Biswas**

- i. Seminar talk at Stony Brook University, September 2005
- ii. Seminar talk at Stony Brook University, February 2006
- iii. Seminar talk at Universite d'Avignon, November 2006

- iv. Talk at Scuola Normale Superiore, Pisa, Jan 2007, in conference on "Local Holomorphic Dynamics"
- v. Invited speaker at conference on Surface Mapping Class Groups, held at NEHU Shillong, June 2008
- vi. Invited speaker at conference on Foliations, held at ISI Kolkata, November 2008
- vii. Colloquium speaker at ISI Kolkata, 2nd September 2009
- viii. Talk at HRI "International Conference in Mathematics", March 2009.
- ix. Visited Universite Paul Sabatier, Toulouse III, France from 16-21 June 2009 for a conference on Complex Dynamics. Invited talk at the conference.
- x. Visited Universidad de Madrid, Spain from 22 June to 3 July 2009 for research collaboration with Prof. Ricardo Perez Marco in Complex Dynamics.
- xi. Invited speaker at ICM (International Congress of Mathematicians) satellite conference on Geometric Group Theory to be held from 9-14 August, 2010.

Kingshook Biswas is scheduled to visit Universite Paris-VI during June 2010 for research collaboration with Prof. Ricardo Perez Marco in Complex Dynamics.

### **Indranath Sengupta**

- i. Invited speaker at Décimo Encuentro de Algebra Computacional y Aplicaciones EACA 2006 Sevilla, Spain 7-9 de Septiembre de 2006. This was a satellite conference of the ICM 2006. He was the only speaker from an Indian university at the conference.
- ii. Participated in the International Congress of Mathematicians (ICM) 2006 at Madrid as a member of the NBHM.
- iii. Attended the International School & Workshop on Polynomial Automorphisms and related topics (ICTP sponsored programme) at the Institute of Mathematics, Hanoi, Vietnam during October 9-20, 2006.
- iv. Resident Resource Person for Linear Algebra in the NBHM-sponsored programme MTTS-Level O, held at the IIT Guwahati during June-July 2007. This was for the third consecutive year; the previous two being at the Jadavpur University in 2005 & 2006, where he was a resident resource person for Linear Algebra and Number Theory.
- v. Spent the Fall Semester at University of Missouri, Columbia, USA on sabbatical from August - December 2007.
- vi. Delivered a talk in the Commutative Algebra seminar in the University of Missouri, Columbia, USA in 2007.
- vii. Resource Person for an advanced course in Linear Algebra in the UGC-sponsored Refresher Course in the Department of Mathematics, Jadavpur University during February-March 2009.
- viii. Invited Speaker in the International Conference in Mathematics at the HRI, Allahabad in March 2009.
- ix. Visited the Radboud University, Nijmegen, Netherlands for a workshop on Automorphisms on Affine Spaces, from 4 July to 14 July 2009.
- x. Visited Universite Valladolid, Spain from 26 September- 20 October 2009 for research collaboration with Phillippe Gimenez on Commutative Algebra.
- xi. Delivered a talk in the departmental seminar in the Universite Valladolid, Spain in 2009.
- xii. Due to visit Universite Valladolid, Spain in November-December 2009 for research collaboration with Phillippe Gimenez on Commutative Algebra.

**Mahan Mj (Swami Vidyanathananda)**

- i. Hyperbolic Geometry, ATM School, ISI Kolkata, November 2005 Geometrization, ISI Kolkata, May 2005
- ii. Local Connectivity of Limit Sets, University of Calcutta, 2005
- iii. Cannon-Thurston Maps, ISI Kolkata, 2005
- iv. Cannon-Thurston Maps, conference on Teichmuller Theory, Harish-Chandra Research Institute, Allahabad, January 2006
- v. Talk on Cannon-Thurston Maps for  $i$ -bounded Geometry, conference on Geometrical Methods in Topology, Indian Institute of Science, Bangalore, June 2006
- vi. Five talks on 3 manifold Topology, conference on Geometrical Methods in Topology, Indian Institute of Science, Bangalore, June 2006
- vii. Talk on Local Connectivity of Limit Sets, Tata Institute of Fundamental Research, December 2006
- viii. Visited Mathematical Sciences Research Institute, Berkeley, USA for a month (October-November 2007) during a semester-long programme on Kleinian groups and Geometric Group theory. Invited speaker at main conference on Kleinian groups.
- ix. 3 talks at MSRI Berkeley, on Local Connectivity of Limit Sets, October 2007
- x. Invited talk at Topology seminar, University of Chicago, October 2007
- xi. Invited talk at Topology seminar course (taught by Ian Agol), U.C. Berkeley, October 2007
- xii. Invited speaker at Ramanujan Mathematical Society conference, IIT Kanpur, 2007
- xiii. Unity of Mathematics lectures at IIT Kanpur, December 2007
- xiv. Organizer and resource person at conference on Surface Mapping Class Groups, held at NEHU Shillong, June 2008. Series of 5 talks on Kleinian groups
- xv. Keynote speaker at conference on Foliations, held at ISI Kolkata, November 2008
- xvi. Visited University of Warwick, UK from 1-28 May 2009 for research collaboration with Profs. Caroline Series and Saul Schleimer. A research paper 'On continuous motions of limit sets' is almost complete.
- xvii. 3 talks on Cannon-Thurston Maps to specialists, one in Low-dimensional topology summer event, one in Topology seminar at University of Warwick, UK
- xviii. Visited Universite Paris Sud XI, France from 1-30 June 2009 under a joint Indo-French collaborative research programme ARCUS. Talk on Pattern Rigidity at Universite Paris Sud XI, France
- xix. Talk at Universite Paul Sabatier, France, Toulouse in Topology seminar
- xx. Talk at University of Lille, France, in Topology seminar
- xxi. Invited speaker at ICM satellite conference on Geometry, Topology and Dynamics of Character Varieties to be held from 10-14 August, 2010. He is the only speaker invited from an Indian university at the conference.
- xxii. Invited speaker at ICM satellite conference on Geometric Topology and Riemannian Geometry to be held from 12-16 August, 2010. He is the only speaker invited from an Indian university at the conference.
- xxiii. Colloquium speaker at ISI Kolkata, 9th September 2009
- xxiv. Invited speaker at symposium (to be) held at Homi Bhabha Centre for Science Education (TIFR) in honour of Ramanujan's birth anniversary, 21-22 December 2009

**Sayan Das, M.Sc. student**

Sayan Das, a first year MSc student, presented a paper in the 9th National Workshop on Cryptology held at Sardar Vallabhai Patel National Institute of Technology, Surat, from 7-9 August 2009, organised by Cryptology Research Society of India.

**2.33.1.2. School of Mathematical Sciences—Dept. of Physics**

Workshops, conferences, seminars etc. attended by the following teachers:

**Abhijit Bandyopadhyay**

- i. 2008: Indo-Japanese workshop on neutrino detection, organized by SINP, Kolkata (in April)
- ii. 2008: Workshop on High Energy Physics Phenomenology, Institute of Mathematical Sciences, Chennai, India (in January)
- iii. 2007: Joint Indo-German School and Workshop – Neutrinos in Physics, Astrophysics and Cosmology, TIFR Mumbai, India (in February)
- iv. 2007: 21<sup>st</sup> International Workshop on Weak Interactions and Neutrinos, SINP, Kolkata, India (in January)
- v. 2006: Workshop on LHC Physics, TIFR, Mumbai, India (in September)
- vi. 2006: Indian Neutrino Observatory training School, VECC, Kolkata (in May)
- vii. 2006: IX Workshop on High Energy Physics Phenomenology, IOP Bhubaneswar, Orissa, India (in January)
- viii. 2005: Physics with Atmospheric Neutrinos and Neutrinos from Muon Storage Rings, IIT Bombay, Mumbai, India (in August)
- ix. 2004: XIV DAE-BRNS High Energy Symposium, SINP, Kolkata, India (in December)

**Ashik Iqubal**

- i. 2005: International Workshop on Einstein's Legacy in the New Millennium, Toshali Sands, Puri, India, (in December)
- ii. 2005: National Workshop on String Theory, IIT Kanpur, India (in October)
- iii. 2004: International Workshop on String Theory, Khajuraho, India (in December)
- iv. 2003: National Workshop on String Theory, IIT Kanpur, India (in December)

**Prasanta Kumar Mukherjee**

- i. 2009: DAE-BRNS Symposium on Atomic and Molecular Physics at IUAC, Delhi, February
- ii. 2009: Conference on laser applications in basic and applied sciences (CLBAS-2009) at Visva Bharati during February
- iii. 2008: XIII-th European Workshop on Quantum Systems in Chemistry and Physics (QSCP-XIII) at Michigan State University, Lansing, USA during July
- iv. 2008: Workshop on Laser Spectroscopy and Nanophotonics, held at IIT, Delhi during March
- v. 2007: XXXIII Symposium of the Optical Society of India held at Tezpur University during December
- vi. 2007: Recent Trends in Many-Body Methods for Electronic Structure and Properties of Atoms and Molecules held at Bhubaneswar and Puri, January

- vii. 2006: IPR-PSSI Workshop on the National Fusion Program–ITER and Beyond held at Ahmedabad during November
- viii. 2006: XI-th European Workshop on Quantum Systems in Chemistry and Physics (QSCP-XI) at St. Petersburg, Russia, August 20-25
- ix. 2006: 2nd International Conference on Current Developments in Atomic, Molecular and Optical Physics with Applications at Delhi University, Delhi during March
- x. 2006: National Symposium on Spectroscopy and its Applications (NSSA-2006) in the Dept. of Spectroscopy at Indian Association for Cultivation Science, Kolkata during January
- xi. 2005: Topical Conference on Atomic, Molecular and Optical Physics held at Indian Association for the Cultivation of Science, Kolkata, during December
- xii. 2005: Commemorative Meeting in memory of late Professor Brian G. Wybourne at the Institute of Physics, Nicolas Copernicus University, Torun, Poland during June
- xiii. 2004: National Conference on the Perspectives in Engineering Optics & Spectroscopy held at CCS University, Meerut in April

### Amulya Chandra Roy

- i. 2008: Academic visit for research collaboration to Atomic Physics Laboratory, RIKEN, Japan
- ii. 2008: Academic visit for research collaboration to Department of Physics, University of Miyazaki, Japan
- iii. 2007: Academic visit for research collaboration to Paul Verlaine University Metz, France
- iv. 2007: Academic visit at Max - Planck Institute in Heidelberg, Germany
- v. 2007: XVI National Conference on Atomic and Molecular Physics, TIFR, Mumbai
- vi. 2003: XIV National Conference on Atomic and Molecular Physics, Visva Bharati, West Bengal
- vii. 2003: International Symposium on (e-2e), Double Photo ionization and related topics, Konigstein, Germany

### Siddhartha Ray

- i. 2009: Academic Visit for research to IAUC, New Delhi, as Visiting Fellow June – July
- ii. 2009: Visit to IUAC, New Delhi as a Visiting Fellow and also teaching a course for Ph.D. Students during September – October
- iii. 2008: IAPT workshop on Undergraduate Physics teaching in Calcutta, February
- iv. 2008: Visit to TIFR, Mumbai, for an experiment at the Pelletron, October – November
- v. 2008: Visit to IUAC, New Delhi as a Visiting Fellow, March – April
- vi. 2007: Lectures at Refresher course at University of Burdwan, March
- vii. 2006: Workshop on Neutrino Observatory at SINP, Calcutta, November
- viii. 2006: Workshop at IUAC, New Delhi, April
- ix. 2005: Accelerator's Users' Committee (AUC) workshop and meeting at IUAC, New Delhi, July
- x. 2004: AUC Workshop and Meeting at IUAC, New Delhi, December
- xi. 2004: Invited talk at IAPT workshop on Undergraduate Physics teaching in India held at Narendrapur Ramakrishna Mission College, November

### Gopal Chandra Bhar

Prof. Gopal Chandra Bhar who has been associated with the University since inception was invited by the

US Government, Ministry of Defence, as a Windows-on-Science (WOS) Fellow in June 2006, to visit USAFL WPAFB at Dayton and attend as an invited speaker 'The Great Lakes Photonics Symposium', which was in fact a consortium of nine specialized conferences. He presented a plenary lecture titled 'Nonlinear Materials for Infrared Nonlinear Optics'. He had the honour of sharing the session with the Optics pioneer of the century, Emil Wolfe, among other eminent scientists of the world in this area. He delivered another invited lecture titled 'Generation of Tunable Infrared Radiation' at the Conference on Enabling Materials at the symposium.

### **2.33.1.3. School of Mathematical Sciences—Dept. of Computer Science**

Swami Sarvottamananda, faculty member of the Department of Computer Science attended the following seminars/workshops and gave invited talks.

- i. Workshop on 'Introduction to Geometric Algorithms' organized by TIFR, Mumbai, on 22, 23 July 2008 at Mumbai
- ii. Workshop on 'Introduction to Geometric Algorithms' organized jointly by TIFR and IIT Kharagpur, West Bengal, from 31 October to 2 November 2008
- iii. Dr Homi Bhabha Birth Centenary Workshop on 'Introduction to Geometric Algorithm' organized by Indian Institute of Science, Bangalore, from 15 – 18 July 2009
- iv. Workshop on 'Introduction to Graph Theory and Geometric Algorithms' jointly organized by TIFR and BITS Pilani at Pilani from 22 – 24 January 2009
- v. Research collaboration and talks/discussions with the faculty of the Department of Computer Science, TIFR, Mumbai, from 21 – 24 July 2008 and again from 19 – 28 July 2009

### **2.33.2. School of Indian Heritage—Dept. of Sanskrit**

Three Vice Chancellors of the three famous Sanskrit Universities in India, namely, (i) Prof Vachaspathy Upadhyaya of Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, New Delhi, (ii) Prof Kutumba Shastri of Rashtriya Sanskrit Sansthan, New Delhi, and (iii) Prof Harekrishna Satapathy of Rashtriya Sanskrit Vidyapeetha, Tirupathy, gave talks and interacted with the students of M.Phil. Sanskrit students for a whole days on 5 April 2008. Prof Upadhyaya also spoke to and interacted with the students of M.Phil. Sanskrit on 4 April 2008.

#### **2.33.2.1. Vice Chancellor's participation in the "World University Presidents' Meet" held at Bangkok**

The Ministry of Education, Government of Thailand, organized a 'World University Presidents Meet' at Bangkok during 19-22 July 2006. The Ministry of Human Resource Development, Government of India, deputed an official delegation comprising five Vice Chancellors, UGC Chairman and an MHRD official. The Vice Chancellor of Ramakrishna Mission Vivekananda University was selected by the Government of India to be a part of this delegation. The theme of the Meet was "Reflections on Diversity and Harmonization", and there were several sub-themes. These sub-themes were taken up for in-depth discussion at the various panel discussion sessions, interactive sessions, individual presentations etc. More than one thousand delegates, including renowned educationists and university presidents, chancellors, and vice chancellors attended the Meet. On the whole, 82 countries were represented. The discussions were of serious nature and held for nearly three full days, seven to eight hours each day.

The sub-themes were the following:

Sub-theme (1): Sufficiency and sustainability in higher education development

Sub-theme (2): Trends and developments in cross-border education

Sub-theme (3): New trends and innovations in higher education including e-learning

Sub-theme (4): Higher education governance covering finance and management

Sub-theme (5): Harmonization within diversity covering mutual recognition of standards, accreditation and quality assurance

Sub-theme (6): Peace and social stability and the role of higher education in conflict resolution, cultural tolerance and global fight against terrorism

Sub-theme (7): Cultural awareness and sport as contributors to global peace and understanding

#### **2.33.2.2. Vice Chancellor's Participation and Invited Talk in the International Yoga Conference in Italy, organized by Sarva Yoga International, an Italy-based organization to promote yoga, during May 2008**

Sarvayoga International, an organization based in Italy working for the promotion of the authentic tradition of yoga, organized a 4-day First World Conference of Traditional Yoga in Assisi, Italy from 1 to 4 May 2008. Swami Atmapriyananda, the Vice Chancellor, was invited to participate in this conference, present a paper, conduct guided meditation sessions, interact with the participants, nearly 500 of them, largely from various countries of Europe and some also from USA. He presented a paper on "Swami Vivekananda's unique concept of synthesis of yogas". On his way to and from Italy, he also visited and spoke at the Vedanta Centre in Gretz, France. He also visited Germany and the Vedanta Centre there. At the UNESCO headquarters in Paris, he met the Director of Higher Education who evinced keen interest in creating a UNESCO in the University in the area of 'Inclusive Education, Adapted Physical Education and Yoga'.

#### **2.33.2.3. Vice Chancellor's Participation and Invited Talks at the National Yoga Conference in Italy, organized by the Italian Yoga Federation, during May 2009**

The Italian Yoga Federation organized a National Conference on Yoga at Jesolo (VE), Italy, from 30 April to 3 May 2008. Swami Atmapriyananda, Vice Chancellor, was invited to participate and give talks, besides conducting meditation and interaction sessions. He spoke on Swami Vivekananda's Raja Yoga: A Unique Response to Classical Yoga in the Modern Age of Science. On his way to and from Italy, he visited the Vedanta Centres of Ramakrishna Mission in Germany, Holland and UK.

#### **2.33.2.4. Vice Chancellor's Participation in the Interfaith Meet organized by Elijah Interfaith Institute based in Israel, held at Hafia, Israel, during November 2009**

The Elijah Interfaith Institute is a multinational organization dedicated to fostering peace between world's diverse faith communities through interfaith dialogue, education, research and dissemination. The activities of the Institute are carried out through several arms: Board of World Religious Leaders, Elijah Interfaith Academy, Elijah Educational Network and Elijah School for the Study of Wisdom in World Religions. Its vast range of contacts and networks include a board of world religious leaders, an extensive network of engaged scholars, academic partnership with leading universities, and membership in UNESCO educational and administrative networks. All of these allow the Elijah Interfaith Institute to carry out its work on a variety of levels and to offer a coordinated program of interreligious study, leading on the one hand to peace making and social change and on the other to the growth of individuals and their religious traditions.

Swami Atmapriyananda, being on the Board of World Religious Leaders of the Elijah Interfaith Institute, was an invited participant at an Interfaith Conference at Haifa, Israel during November 2009, on the theme: Future of Religious Leadership. Earlier, Swami Atmapriyananda had attended an Interfaith Meet of the Elijah Institute held at Amritsar, Punjab, with HH Dalai Lama as one of the chief religious leaders and another organized by the Sikh community at Nanded to commemorate Guru Govind Singh's martyrdom. Their request for Swami Atmapriyananda's involvement in the activities of the Elijah Interfaith Institute springs from a three-fold reason: as a representative of Hinduism in its most liberal and rational form in the light of Ramakrishna-Vivekananda interpretation and tradition, as a person from the field of higher education and as one championing the cause of science-religion harmony which is the contemporary global trend in education.

### **2.33.2 5. Vice Chancellor's Participation and Invited Talks at the Parliament of Religions being organized by the Council for a Parliament of World's Religions at Melbourne, Australia, during December 2009**

Swami Atmapriyananda, Vice Chancellor, was invited to attend and speak at an international event—the Parliament of Religions being organized by the Council for a Parliament of World's Religions, at Melbourne, Australia, from 3 to 9 December 2009. During his stay in Australia, he also visited the Vedanta Centres at Sydney, Perth, Brisbane and Singapore and gave some invited talks.

The details of the Parliament and the visits to other places of educational interest including Charles Stuart University, Orange, may be found in the following emails sent by Swami Atmapriyananda from Australia to the senior monks in India, which are reproduced below:

#### **Email dated 9 December 2009 from Melbourne:**

The Parliament of World's Religions concluded today (9 December). HH Dalai Lama was the Guest-in-Chief for the concluding plenary session and the most satisfying thing for us is that he clearly and candidly mentioned Swami Vivekananda's name, saying that it was Swamiji who powered the inter-religious movement and it is owing to this great man that the present Parliament could take place. This remark was well received and everybody clapped and cheered. The whole conference was simply amazing--nearly 5500 participant-delegates from 80 countries of the world, 1200 speakers/presenters, 550 volunteers, 650 panel discussions held concurrently in as many as 30-35 halls, 220 religious/faith groups represented, the deliberations taking place on a very vast variety of subjects, everyday from 8 am to 6 pm, with cultural programmes (which included prayers, music and dance performances from so many religious traditions of the world) from 7.30 to 9.30 pm. The quality of discussions and interactions was quite high. Swami Vivekananda was so much remembered and spoken about as having been the chief inspiration of this kind of inter-religious exercise. What appeared to be encouraging was that several youngsters--Christians as well as Jews--said that Swami Vivekananda was their great inspiration. We had a DVD presentation of Swamiji's life, followed by a 40-minute talk by me on Swamiji. The questions that the film and the talk evoked were quite interesting. Swami Sridharanandaji attended this session as well as the inaugural session on 3 December. Swamis Varanandaji (from Chicago), Atmatattwanandaji (from Hollywood), and Atmeshananda (from Sydney) participated on all the days, from 3 to 9 December. Swami Chandrasekharananda (from Sydney) attended for 3 days. The book stall set up by the Vedanta Centre (among the nearly 90 or so stalls from various groups) was well attended. On the whole, it was a remarkable learning exercise, besides being a humbling experience for me: how little do I know and how very much is there to know. The conference seems to have created a big stir in Melbourne and what with the media coverage, it has been the talk of the town.

### Email dated 12 December 2009 from Melbourne:

Immediately after the Parliament was over, I went to Orange, a beautiful countryside town called the 'Apple City' as it grows the largest amount of apples in Australia, nearly 750 kms from Melbourne. Dr A. Raman, one of my old colleagues at Loyola College, Chennai, when I was teaching there, is now in a senior faculty position at the School of Life Sciences in Charles Sturt University in the Orange Campus. The Orange Campus specializes in the Faculty of Agricultural Ecology and Dr Raman is the key person in this specialized Faculty. I had been interacting with him via email even from India and he has been advising us in our own Rural Development and Management programmes at Narendrapur and Ranchi. I put Swami Bhaveshananda (Pralay), the Chief Coordinator of the Faculties of Rural Development and Management in Narendrapur and Ranchi, in touch with Dr Raman and there has been a very effective exchange of ideas and experiences. Dr Raman invited me to their campus to show the work they are doing on Agricultural Ecology, Sustainable Agriculture, Organic Farming as well as Agricultural Management, areas which overlap largely with our own. They also have a huge distance education programme on these Faculties. We had an enlightening discussion with the programme directors and faculty members. After the interaction, Dr Raman took us to a large Organic Farm managed by an old lady, with theoretical knowledge and hands-on experience, who has taken up the project with great passion. This organic farm has become famous in Australia and groups of persons who called themselves Willing Workers of Organic Farming (acronymed as 'WWoOF') from all over the world come and camp there for weeks, work in the farm to learn about the various technical niceties from this experienced lady. In the evening, Dr Raman arranged a special lecture under the Faculty of Agriculture, Spirituality and Management, and suggested the following topic: Interfacing Physics with Philosophy: the spiritual journey of an Indian monk. After about an hour's talk, there followed a vigorous question-answer session for nearly 45 minutes. About 45-50 persons--most of faculty members, some of them students, others interested from the neighbouring places--attended. While most of them were Christians and Australians, there were some Indians (settled in Australia) also. I met one Dr Parikshit Basu, an ex-student of Narendrapur and his wife. Dr Basu is also a faculty member of Charles Sturt University at the neighbouring campus slightly away from Orange. Dr Raman is interested in collaborating with Vivekananda University under the various exchange programme schemes of the Indo-Australian Council for Academic Cooperation. If this comes about and we initiate an ongoing collaboration, that should be of great mutual benefit. From Orange, we came to Sydney this afternoon (12 December).

Swami Atmapriyananda

### 2.33.3. Ranchi Faculty Centre

Workshops, conferences, seminars etc. attended by the following teachers:

#### Sri Dipankar Chatterjee

- i. National Seminar on *Tribes in Crises: Bio-Cultural Perspective* at School of Studies in Anthropology, Pt. Ravishankar Shukla University, Raipur, November 2006
- ii. International Seminar on Science, Culture and Social Change (ISSCSC) at the University of Calcutta, Kolkata, January 2007
- iii. National Seminar on Man in Biosphere in An.S.I., Central Regional Centre, Nagpur, February 2007
- iv. Cognitive Dimension of Cultural Transformations: The Gujars of Himachal Pradesh in Context, paper presented in the UGC sponsored International Seminar on Human Diversity in Perspectives

- at Department of Anthropology, University of Calcutta, Kolkata, March 2007
- v. National Seminar on Marginalisation in Urban and Rural Contexts of India
- vi. at Asiatic Society, Kolkata, March 2007

### **Dr Avijit Kumar Dutta**

- i. National Symposium on “Sustainable Production and Export of Horticultural Crops” held in Bidhan Chandra Krishi Viswavidyalaya, Kalyani, West Bengal, December, 2005.
- ii. 13th West Bengal State Science and Technology Congress held in Ballygunge Science College, Kolkata, February- March 2006.
- iii. National Symposium on “Organic Horticulture-Its Production, Processing, Marketing and Export for Sustainability” held in Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal, June 2007.
- iv. International Symposium on “Management of Coastal Ecosystem: Technological Advancement and Livelihood Security” held at Science City, Kolkata, October, 2007.
- v. 15th West Bengal State Science and Technology Congress held in Bengal Engineering and Science University, Shibpur, February 2008.

### **2.33.4. Narendrapur Faculty Centre**

Conferences, seminars, symposia, workshops etc attended by the following faculty:

#### **Amitava Dutta**

National Seminar on “The Problem of Beggary – Realities, Challenges and Interventions” during 20 – 22 February, 2009 at Rabindra Okakura Bhavan, Salt Lake, Kolkata – 700 064 West Bengal organized by “National Institute of Social Defence, New Delhi” in collaboration with Jayaprakash Institute of Social Change, Kolkata

#### **Rupak Goswami:**

- i. National Seminar on “Banana Industry: Present Scenario and Future Strategies”, Kalyani, Nadia, West Bengal, 11-13 June, 2004.
- ii. National Seminar on “Integrated Production and Post-Harvest Management of Tropical Fruits”, Farmers’ Training Hall, BCKV, West Bengal, 11-12 April, 2006
- iii. Participation in the 3<sup>rd</sup> Triennial Conference of Global Forum for Agricultural Research on “Reorienting Agricultural Research to meet the Millennium Development Goals” held at New Delhi in between 9-11 November, 2006.
- iv. National Symposium on ‘Plant Protection: Technology Interface’, organized by Association of Advancement in Plant Protection (AAPP) at Kalyani, West Bengal, between 28th and 29th December, 2007 [Paper presentation on ‘Beyond Plant Protection and Farmer Field School (FFS): A Journey from Plant Protection to Sustainable Livelihoods’].
- v. World Congress on ‘Conservation Agriculture’ during 04-07 February, 2009 organized by Ministry of Agriculture, Govt. of India, New Delhi. [Paper presentation: ‘Validating participatory microfarming situation analysis: a case of rainfed rice cultivation in the south 24 paraganas district, West Bengal, India’].
- vi. National Seminar on Application of ICT in Agriculture and Rural Development held at Birsa Agricultural University, Ranchi in between 21-22 November, 2008 [Paper presented:

“Experimentation with ICT Application in Agricultural Information Management: Recollecting Experiences of Telesupport Project in West Bengal, India”].

vii. II National Seminar on Earthworm Ecology and Environment & IX National Symposium on Soil Biology and Ecology to be held on 21-23 November, 2009 at Inst. of Agriculture, Visva-Bharati, Sriniketan-731236, W. Bengal, India

#### **Nasim Ali:**

- i. 14<sup>th</sup> West Bengal State Science & Technology Congress, held on 28<sup>th</sup> February- 1<sup>st</sup> March, 2007 at Jadavpur University, Kolkata, West Bengal
- ii. National seminar on ‘Legumes for Ecological Sustainability: Emerging Challenges and opportunities’ organized by ICAR at Kanpur, at Uttar Pradesh on 3-5 November, 2007
- iii. National Conference 2009 on “Plant Sciences: Diversity, Products and Environmental Planning” held on 11<sup>th</sup> & 12<sup>th</sup> October, 2009 at Department of Botany, Marwari College, Ranchi.
- iv. II National Seminar on Earthworm Ecology and Environment & IX National Symposium on Soil Biology and Ecology to be held on 21-23 November, 2009 at Inst. of Agriculture, Visva-Bharati, Sriniketan-731236, W. Bengal, India.

#### **Field Visits, Village and Industrial Visits and Rural Living by the students:**

- » The IRDM Students were on village placement at tribal village of Purulia District (Village: Kalakata and Mudihii) during February 16- 22, 2007 to exercise different learning points being in the practical field. They also visited and studied the organization Kalyan, the well known NGO of Purulia. The students had also gathered experience of implementation of rural development project through ‘Millennium Development Goal Village’ Project.
- » The ABBT students visited the Biotechnology Laboratory of the Bullygunj Science College of the Calcutta University during January 03-04, 2007. Prof. Bratati Dey of the Botany Dept. demonstrated the students on extraction of different bio-reactives from medicinal plants. The students also visited the Tissue Culture Laboratory of the College.
- » The students of IRDM visited Sundarban villages and villages of Purba Medinipur in separate groups as part of their Village Placement programme under Mo-I07 and Mo-I08 during 26-30 May, 2007. Both the groups had performed household survey and applied some selected PRA tools during their visit to village Surendranagar (Kakdwip) and Bansda (Tamralipta) for studying community, its structures and functions and assessing different forms of rural resources. Students systematized and presented their findings on 01.06.2007.
- » Both the students of IRDM & ABBT visited Polyhouse (Green Idea Seeds) at Gopalpur, Ganganagar (Madhyamgram), Barasat on 11.04. 07, under the guidance of Dr. S. N. Das and Mr.A. Basu. The students have learned the hardening procedure of tissue culture raised Gerbera plants as well as its commercial cultivation process under polyhouse technique. They also had an idea of entrepreneurship and the factors influencing a successful polyhouse in particular.
- » The students of ABBT and IRDM visited the Vivekananda Institute of Biotechnology and Krishi Vigyan Kendra, Nimpith, on 30th April, 2007 under the guidance of Dr. M. Ghosh, Mr. P. Dasgupta and Dr. S. N. Das. The students had gone through demonstration of different bio-technologies directly related to agriculture and also studied the system of KVK activities.
- » Mother Dairy – Students of ABBT visited the Dairy Farm of ‘Mother Dairy’, Dankuni under the guidance of Dr. Md. Nasim Ali and Dr. S.S. Ghosh. The students observed different units like- milk processing

unit, 'Paneer' processing unit, yogurt processing unit, curd processing unit, packaging unit, grading unit and distribution unit.

» As a part of the study on Natural Disaster Management and Community based Disaster Preparedness, the Students of IRDM were on a field visit to Kakdwip, Sunderbans, South 24 Parganas in between 16/08/2007 and 18/08/2007 for gaining practical knowledge and experience on Community Based Disaster Preparedness (CBDP) through PRA & PLA techniques under the guidance of Dr. Dipankar Dasgupta, an expert in disaster mitigation and Mr. Kesab Mahapatra, consultant, Public Health Engineering Department, Government of West Bengal. After theoretical and group works the students were at Lkshnipur village of Kakdwip, a disaster-prone village, for practical work.

» Students of Semester-I, IRDM were on village orientation at two villages of Kakdwip blocks of Sundarban as part of their Village Placement Programme during 03-06 October, 2007. The students spent a whole day and night in the farmers' home for acquiring first-hand experience about village life and livelihood pattern. During other days of the visit the students studied the basic characteristic features of village and rural society envisaging the socio-economic, religious and cultural aspects. They also tried to understand the socio-economic status of villagers depending upon different developmental indicators like, health, sanitation, education, housing etc.

» Students of Semester-III, IRDM (2007-08), visited tribal villages of Purulia as part of their Village Placement Programme during 03-06 October, 2007. The students visited the Millennium Village (where MDG project is being implemented in collaboration with GAA) and studied the nature and extent of the project intervention. Students used checklist for unstructured interview and some participatory appraisal techniques to elicit information regarding the thrust areas purported to be addressed by the MDG.

» The students of IRDM, Semester-III after attending the National Level Training of Trainers' Programme on CBDRM went to Sunderban, as resource persons of the said field in between 1st and 4th February, 2008. During this period they acted as facilitator to conduct Participatory Learning & Action (PLA) programme, which will help to sensitize the community regarding the disaster risk and its management.

» The students of Semester-II, IRDM, were on a field placement in the village of Bar Bainch Beria of Nandakumar-I, East Midnapore Districts in between 13.05.2008 to 18.05.2008 where the students got the opportunity to have experiences on survey methods and PRA method for data collection as a part of their practical course curriculum. The study envisaged the areas like demography, disaster, agriculture and allied fields, health & sanitation and some specific social problems. The students are preparing the report of their visit and will be sharing their experience at the Faculty Centre shortly.

» The students of ABBT were in an exposure visit at Vivekananda Institute of Biotechnology, Ramakrishna Mission Ahrama, Nimpith in between 17th and 19th May, 2008. The students got a practical orientation of the large scale production of biofertilizer, vermicompost, neem based pesticides and tissue cultured raised plants.

» The students of Semester-III, IRDM visited the Indian Museum on 26.02.2008 where the students got the opportunity to have exposure on tribal lives, livelihoods, material culture and the social organization of some typical tribal groups inhabiting in different parts of India, originated from various racial groups like Australoid, Negroid, Mongoloid etc.

» Students of Semester-IV, IRDM acted as professionals for the PARIS (Poverty Alleviation through Rice Innovations System) project spearheaded by International Rice Research Institute (IRRI) in collaboration with the Agriculture Training Centre in between 23.06.08 to 25.06.08 and 14.07.08. The students gathered necessary information as the ground work of the project at four different project locations (Ghola, South 24 Parganas; Kusthia, South 24 Parganas; Kakdwip, South 24 Parganas and Tamralipta, East Midnapore).

» The students of ABBT were on an exposure visit on 26.06.08 to see the vermicomposting unit of Lila Agrotec Ltd. at Barasat, North 24 Parganas. The exposure visit were organized to provide the opportunity

to the students to get an idea about large and commercial scale production of vermicompost along with the scope of interacting with a successful entrepreneur. The students got the motivation towards entrepreneurship development.

» The students of ABBT presented their seminar between 08.07.08 and 09.07.08 on their field study at different places like Vivekananda Institute of Biotechnology, Nimpith; Lila Agrotech, Barasat and activities of West Bengal State Council of Science and Technology.

» The semester-II students of ABBT were on a field placement at Bamungachhi, Baruipur Block from 30.07.08 to 01.08.08 for studying the adoption of biotechnological innovations. The students analysed the farming situation of the study villages, identified their problems, prioritised them and proposed biotechnological interventions available with the Faculty Centre. The students have also identified the problems associated with the adoption of biotechnological innovations. On the final day, students presented to the farmers the biotechnological innovations known to them (like vermicomposting, panchagabya, sanjibani, amritpani) and may be applied by the farmers.

» A Market survey on agricultural product at Rajpur market on 05.08.08 was carried out by the students of ABBT as a part of their course (Module-I09). From this survey they came to know several informations on the products, their sources, marketing channel, value etc.

» A whole day practical session on fish breeding was conducted for the students of ABBT at a private fish breeding centre located at Naihati fish breeding farm on 12.08.08. From this technical tour students got the opportunity to have the knowledge on fish breeding, ornamental fishes etc which are the part of their courses (Module-I07).

» The students of Semester-I, IRDM were on a field visit at some South 24 Parganas villages in between 13-16 November, 2008. The students were exposed to the rural environment and had an opportunity to stay with the rural families. They studied the social and cultural changes of the community. The students also studied the farming system of the village.

» The students of Semester-III, IRDM visited the Indian Museum on 25.11.2008 where the students got the opportunity to have exposure on tribal lives, livelihoods, material culture and the social organization of some typical tribal groups inhabiting in different parts of India, originated from various racial groups like Australoid, Negroid, Mongoloid etc.

» The students of ABBT and IRDM participated in the symposium on 'Sustainable uses of Natural Resources from medicinal and aromatic plant' on 24.12.08. The students have got the opportunity to gather lots of information on medicinal and aromatic plants and their uses from different lectures of eminent personalities in the field.

» The students of ABBT were on a field visit during 29.12.2008-02.01.2009 at Barbahichberia and Nirbhaypur village of East Midnapore district under the guidance of Dr. Md. Nasim Ali. The students had an exposure to village life and came to know about the agricultural practices at the farmers' level. Besides, they also visited the Agriclinc and Agribusiness Centre located at Kanthi, East Midnapore.

» Under the Merrill Lynch Sponsored I Create NFTE Business Education and Business Plan Competition, I Create West Bengal has collaborated with the Faculty Centre and they have taken 40 hrs of classes between 27th March and 19th May. Actually the organization are encouraging the youth (Age less than 21 years) for developing Entrepreneurship which is one of the important motto of our courses. They will organize competition on Business plan submitted by the participants of different institute at regional level followed by National and International level. After successful completion of class hours, the students are going to receive their Certificate and they are also asked to submit their business plan within 26.05.09.

» The students of IRDM Semester II were in a field visit between 06.04.09 and 09.04.09 at three villages namely Hatnara, Paradi and Vitpani of Ajodhya Hill of Bagmundi block, Purulia. The students have come to know about the tribal villages and their socio-economic status through Participatory Rural Appraisal

(PRA) and Interview method. The students also collected information on Indigenous Technical Knowledge (ITK) of the tribal folk in the field of Agriculture, Animal husbandry and health etc.

» Students of both IRDM and ABBT course attended several sessions of the Secretary Conference of Ramakrishna Mission Lokasiksha Parishad during 4-6 June, 2009. The sessions included 'environment', 'organisation', 'Self-Help Group', 'medicinal plants' etc.

» Students of both IRDM and ABBT course are on a field placement (11-13 June, 2009) on 'fish breeding' at the Fish Breeding Centre, Junput and Prawn Hatchery at Digha under Department of Fishery, GoWB.

» On 25.06.09 the students of ABBT visited an entrepreneurial site of Mushroom production as a practical aspect of Module-I09 at Badu, North 24 Parganas under the guidance of Dr. Md. Nasim Ali. The students interacted with the successful entrepreneur Mr. Utpal Biswas of Biswas-Sham-Chackraborty (BSC) Mushroom Pvt. Ltd., and they were motivated enough towards entrepreneurship development which is the motto of this course.

» The students of the Semester-II, ABBT were on a field visit to selected areas of Baruipur, South 24 Parganas during 8-10 July, 2009. The students interacted with the farmers of the villages Chakarberia, Bamungachhi and Biral to study the adoption of biotechnological innovations in the area which covered the practical aspects of Module-I10 like a) the perceived advantages and disadvantages of the biotechnological innovations; b) adoption of the innovations by individual farmers; and c) the constraints in adopting the biotechnological innovations.

» The students of Semester-II, IRDM were on a field study to selected vegetable and fruit growing areas of Baruipur on 01.07.2009. They studied the marketing channel of important vegetables & fruits and their important problems/constraints. Students also estimated the marketing potential of the nine villages they studied.

» Between 07.08.09 and 08.08.09 the students of IRDM (Semester-II) were on a field visit at Sagar Island, South 24-Parganas to observe the Community based Disaster Preparedness (CBDP) programme

» A market survey as a part of the course curriculum of ABBT student was conducted on Agro-inputs at Rajpur Market on 17.08.09. The students got the opportunity to learn the practical pros and cons of conducting survey and they also collected data which they will share through power point presentation with the Faculty members after analyzing data on 08.09.09.

## 2.33.5. Coimbatore Faculty Centre

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

Conferences
Dr. M.N.G. Mani, Director, conducted a workshop for the Mathematics teachers of the East Asia Region at the Mahidol University, Salaya, Bangkok, Thailand from 24 to 27, January 2005.
Dr. M.N.G. Mani, Director, has been appointed as the Chairperson of the Joint Committee constituted by the National Council for Teacher Education and the Rehabilitation Council of India to formulate norms and standards for special education teacher preparation programmes and also to suggest curricular inputs on special education to be included in general teacher preparation courses.
Dr. M.N.G. Mani, Director, served as a resource person in the workshop for the Mathematics teachers of the East Asia Region at the Mahidol University, Salaya, Bangkok from 24 to 27 January 2005.

Conferences
Dr. M.N.G. Mani, Director, also attended the International Symposium on Inclusive Education in Bukit Tinggi, Indonesia, from 25-29 September.
Sri V.R. Mathivanan, Deputy Director, participated in the International Conference on Deaf Education at The Netherlands from 14 to 21 July.
Dr. M.N.G. Mani, Director, attended the International Symposium on 'Inclusive Education' in Bukittinggi, Indonesia from 25 to 29 September.
Dr. Mani attended the Joint Meeting of the International Organisations at VIGO, Spain from 28 to 29 November to plan a global campaign on education for all children with visual impairment.
Sri V.R. Mathivanan, Deputy Director, acted as a Resource Person in the SSA meeting organised at Chennai on 25 May 2005 on .SSA-IED sharing of experience with all CEOs and ADPCs in Tamilnadu.
Sri M.B. Jaiganesh visited Mook Badhir Sangathan School for the Deaf, Indore, regarding RCI Inspection on 25 January 2005.
Sri G.R. Ramesh, Lecturer in Special Education attended the first Apex Body Meeting of the Bangalore University regarding the conduct of online examinations for Diploma in Community Based Rehabilitation course of the Bangalore University on 31 August.
Dr. Mani and Sri G.R. Ramesh, Lecturer made presentations on Instructional strategy for Children with Learning Difficulties in the University Grants Commission sponsored National Seminar on Learning difficulties and instructional strategies organized by the College of Education, Ramakrishna Mission Vidyalaya on 16 and 17 December.
The MEd (HI) students attended a workshop on Audiology on 10 September 2007 at the All India Institute of Speech and Hearing, Mysore. Selvi Priyanka S. Upadhyay, Lecturer in Hearing Impairment, accompanied the students.
Tmt. R. Sathyapriya delivered a talk on disability management at the NSS camp organized by Government Higher Secondary School, Kalapatti, on 24 September 2007.
Sri V.R. Mathivanan, Deputy Director and Ms. M. Annakodi, Lecturer acted as Resource Persons in the Tele-conference on Inclusive Education, which was aired on 26 October.
Ms. I. Prabha, Lecturer in Special Education and Ms. Seethalakshmi, Special Educator (SSA) participated in IED module preparation workshop organized by the DTERT at DIET, Uthamapalayam from 27 to 29 October.
Smt. M. Lakshmi of the Faculty of Disability Management and Special Education participated in the second International Conference on 'Early Intervention in Mental Retardation' organized by Madhuram Narayanan Centre for Exceptional Children, Chennai, on 15 and 16 December 2007.
Ms. Annakodi and Mrs. M. Lakshmi acted as resource persons for the CRE programme on 'Rehabilitation of people with low vision' organised by N.K.T. National College of Education for Women, Chennai on 25 March 2008.
Mrs. M. Lakshmi, K. Dhanalakshmi, and G. Poongothai participated in a demonstration on a special software for interacting with hearing impaired and deaf blind persons on 17 May 2008 at Coimbatore. Institute of Electronic and Telecommunication Engineers, Coimbatore, arranged this programme.

## Conferences

Mrs. Kamakshamma Murthy participated in the first meeting of the Braille Council of India (BCI) at NIVH, Dehradun on 12 and 13 September 2008.

Mr. M. Subramanian and R. Sankaranarayanan participated in the One day Workshop on Preparation of Braille Books for Primery classes for teachers and Braille Press workers at NIVH, Poonamalli, Chennai on 20 September 2008.

Mrs. M. Lakshmi, K. Dhanalakshmi, and G. Poongothai participated in a demonstration on a special software for interacting with hearing impaired and deaf blind persons on 17 May 2008 at Coimbatore. Institute of Electronic and Telecommunication Engineers, Coimbatore, arranged this programme.

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Sri P. Ramakrishnan, Lecturer in Hearing impairment participated in the National Workshop on Audiology for Educators organized by All India Institute of speech & Hearing, Mysore on 21 Oct 2008.

Ms. M. Annakodi & Ms. M. Lakshmi participated in the workshop on Inclusive Development and Networking at Karl Kubel Institute for Development of Education, Anaikatti Road, Mangarai, Coimbatore during 14-15 November 2008.

Selvi M. Annakodi acted as Resource Person in the Key Resource Persons training organized by SSA Directorate, Chennai at National Institute for the Empowerment of Persons with Multiple Disabilities, Chennai during 10-11 January 2009.

Martial Arts Club of PSG College of Technology and Polytechnic College organized an "Event of confidence" during 24-25 January 2009 at PSG IM Yoga Hall, Palmed. Thru MR. Kandasamy participated in the function as guest of honour. Thiru A. Dorai Raj delivered a talk on "Confidence Building". Tmt. M. Lakshmi delivered a talk on "Key to Success". This Programme was meant for the 45 disabled students of the Institution.

FDMSE lecturers participated in the special lecture on Human Rights by Justice Thiru S. Jagadesan, Former Judge, Madras High Court at GKD Auditorium on 10.02.09.

Mrs. Kamakshamma Moorthy participated in a workshop organized by RCI on inclusion of 'UNCRPD' (United Nations Convention on Rights of Persons with Disabilities---its principles & philosophy in the syllabus of B. Ed. & M. Ed. courses in special education at Andhra University, Visakhapatnam during 2-3 March 2009.

Selvi M. Annakodi, Lecturer in Special Education attended the two day workshop on curriculum development for Multiple Rehabilitation Training for Community Disability Facilitators working under Vazhndhu Kaatuvom Project. It was held on 16 & 17 June 2009 at Chennai.

Thiru P. Ramakrishna, Lecturer, participated in an on Orientation Programme on Indian Sign Language, UNCRPD-United Conventions and Rights of Persons with Disabilities at AYJNIHH, SRC, Secunderabad, A.P. from 29 June to 10 July 2009.

Sri A. Dorairaj, Lecturer acted as resource person for the RCI sponsored CRE on teaching, "Orientation and Mobility Skills", organised by Avinashilingam University, Coimbatore on 6 & 7 October 2009.

Conferences
Mrs. C. RenugaDevi, Lecturer in Mental Retardation attended a National Seminar on "Comprehensive Rehabilitation for Persons with Mental Retardation", organised by Navajyothi Trust, Chennai during 8- 10 October 2009.
Sri R. Sankaranarayanan, Coordinator (SSA) attended a seminar regarding Vazhndhu Kattuvom Project at Chennai on 13.10.09.
Sri A. Dorai Raj, Lecturer in Visual Impairment attended a meeting on "Selection of Books for the Braille Library", at Chennai on 16.10.2009. The meeting was convened by Director of Public Library (Govt of Tamil Nadu), Chennai
FDMSE Lecturers Thiru A. Dorairaj, Tmt. Kamakshamma Moorthy and Selvi SVSJ Karthigai Selvi participated in the International Conference on "Educational Leadership - Preparation and Practices in India" at Vidyalaya College of Education during 11-13 June 2009.

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

SL	Year	Conference
1	2007	Mr. M.Ganeshkumar attended the national seminar on Research designs and related computerized statistical applications organized by YMCA college of Physical Education.
2		Mr. M.Ganeshkumar attended the national seminar on new trends in sports medicine organized by Bharathiar University.
3	2008	All the staff members were attended the national conference on Preservation and Propagation of indigenous sports and games of India organized by Maruthi College of Physical Education.
4		All the staff members were attended the national seminar on to evolve a standardized age test and age related changes in factors affecting sports performance organized by Maruthi college of Physical Education.
5		Dr. R.Jayachandran attended the UGC Sponsored (SAP) National Workshop on Inter Disciplinary Approach to an Evaluation of Human Performance Organised by Annamalai University.
6		Mr.O.Jiten Singh attended the U.G.C. (SAP) sponsored National Workshop on Interdisciplinary Approach and Evaluation of Human Performance, organised by Annamalai University.
7		Mr.M.Srinivasan attended the National Conference on impact of biomechanics on excellence in sports at Tamil Nadu Physical Education and Sports University.

SL	Year	Conference
8	2009	All the staff members were attended the Ugc sponsored National conference on Preservation and Propagation of indigenous sports and games of India organized by Maruthi College of Physical Education.
9		All the staff members were attended the national seminar on multiple approaches towards intellectually challenged children organized by Maruthi College of Physical Education.
10		All the staff members were attended the 3 day residential workshop on Human Excellence, organized by Ramakrishna Mission Vidyalaya.
11		Mr. M.Ganeshkumar attended the national seminar on Research methodology and statistics in physical education organized by Bharathiar University.
12		Mr.M.Ganesh Kumar attended the U.G.C. Sponsored National Seminar on Challenges in promoting fitness and sports competitions for different levels of achievement, organized by Annamalai University.
13		Sri S.Sivasankar attended national seminar on Personality development, Sports fitness and health related fitness organized by Kumaraguru College of technology, Coimbatore.
14		Mr.O.Jiten Singh attended the U.G.C. Sponsored National Seminar on Challenges in promoting fitness and sports competitions for different levels of achievement, organized by Annamalai University.
15		Mr.O.Jiten Singh attended the National conference on role of sports science and technology in enhancing sports performance/presented a paper entitled effect of pro prospective training on selected motor component of children, organized by Bharathiyar University.

## 2.34. Guest lectures conducted during the last 5 years or since the conferment of the deemed university status:

### 2.34.1. Belur Main Campus

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

Academic Visits by professors before formal beginning of MSc/PhD programmes:

- i. Dr. Lawrence Reeves (Department of Mathematics, University of Melbourne, Australia) visited us for three weeks in February 2006
- ii. Prof. Ram Murty (FRS, University of Kingston, Canada) visited us in December 2007
- iii. Prof. Kumar Murty (University of Toronto, Canada) visited us in January 2008

Academic Visits by professors after formal beginning of MSc/PhD programmes:

- i. 13-7-08: Prof Goutami Bhowmik and Prof Marc Bourdon (U. Lille, France) delivered a set of lectures on Number Theory and Hyperbolic Geometry respectively. The lectures were held on MWF 14, 16, 18, 21, 23, 25 July 2008, 4-6 pm

- ii. 27-7-08: Prof Herve Pajot (UJF, Grenoble, France) delivered a set of lectures on Hyperbolic Geometry. The lectures were held on MWF 28,30 July, 1, 4, 6, 8 August 2008, 4-6 pm
- iii. 4-8-08: Prof. Sukumar Das Adhikari (Harish Chandra Research Institute) gave a talk on Combinatorial Number Theory
- iv. November 5-14: Prof. Sukumar Das Adhikari (Harish Chandra Research Institute) visited and took classes on Algebra for the MSc students.
- v. November 24-December 6: Foliations Workshop at ISI Kolkata, with keynote speakers including Sergio Fenley (visitor to RKMVU) and Mahan Mj
- vi. 17 July 2009: Amitava Bhattacharya, School of Mathematics, TIFR Mumbai
- vii. Title: Bishops and Matrices
- viii. 23 July 2009, Arijit Chakravarty, Cornell University
- ix. 24 July 2009, Sukumar Das Adhikari, Harish Chandra Research Institute, Allahabad, Title: Weighted generalization of two classical group invariants
- x. 28 July 2009, Sucharit Sarkar, Princeton University, Title: Heegaard Floer Homology
- xi. 7 and 10 August 2009, Paramita Das and Shamindra K. Ghosh, Title: Planar Algebras I and II
- xii. 13 August 2009, Tathagata Basak, University of Chicago, Title: The Leech Lattice
- xiii. 14 August 2009, Tathagata Sengupta, Brandeis University
- xiv. August 2009, Samik Basu, Harvard University, Series of four talks on Spectra. The dates and titles of the talks are as follows:
- xv. 17-8-09: Spectra
- xvi. 19-8-09: Ring Spectra and Operads
- xvii. 24-8-09: Thom Spectra and Generalized Thom Spectra
- xviii. 26-8-09: Ring structures on generalised Thom spectra
- xix. 21 August 2009, Parthanil Roy, Michigan State University, Nonsingular Group Actions and Stable Random Fields
- xx. 4 September 2009, CS Aravinda, TIFR Centre, Bangalore, Khinchine type theorem for closed negatively curved manifolds.

### **2.34.1.2. School of Mathematical Sciences—Dept. of Physics**

The following professors delivered lectures for the M.Phil. students during 2008 and 2009.

- i. Prof Padmanabha Dasgupta delivered a set of lectures on Path Integral Formalism in Quantum Field Theory
- ii. Prof Prasanta Rudra delivered a set of lectures on Group Theory
- iii. Prof Amitava Datta delivered a set of lectures on Standard Model of Particle Physics
- iv. Prof Debashis Gangopadhyay delivered a set of lectures on Quantum Field Theory
- v. Prof Nikhilesh Kar delivered a set of lectures on Theoretical Condensed Matter Physics
- vi. Prof Jayanta Kumar Bhattacharjee delivered a set of lectures on Statistical Mechanics

### **2.34.1.3. School of Indian Heritage—Dept. of Sanskrit**

- i. Prof. Tapan Kumar Bhattacharya, Head of the Department of Sanskrit, Jadavpur University, delivered a series of lectures on 'Nyaya' for students who chose Nyaya specialization in the 3<sup>rd</sup> year of the integrated M.A. course in Sanskrit.
- ii. Prof. Sitanath Acharya, formerly Gopinath Kaviraj Professor, University of Calcutta, gave a

series of classes on Sanskrit literature to the students of integrated M.A. course in Sanskrit.

iii. Prof. Amar Kumar Chattopadhyay, former Head of the Dept. of Sanskrit, Ashutosh College, Kokata, gave a series lectures on Veda.

iv. Prof. Tarapada Chakrabarty, former professor of Sanskrit, Burdwan University, West Bengal, delivered a set of lectures on linguistics.

### 2.34.2. Ranchi Faculty Centre

The following guest lecturers delivered a series of lectures since the starting of courses in the Faculty of 'Integrated Rural and Tribal Development' at the Ranchi 'Off-campus' Centre.

Sl. No.	Name and Address	Educational Qualification	Experience
1	Dr. P.N. Singh	M. Sc. (Ag.) Ph.D., Agronomy	Teaching- 1) 7 yrs. in PG & UG level, 2) 32 yrs. in Banking related to Agricultural development. 3. Guest lecturer in ISM & XISS, Ranchi.
2	Dr. R. N. Verma	M. Sc. Botany Ph.D. Plant Pathology	Ex-Director National Centre for Mushroom, Solan, H.P. Teaching - 6.5 yrs. in PG Level Research-29 yrs. Book Writing-2.5yrs
3	Dr. Nibha Bara	M. Sc.(Ag.) Ph. D. Extension Education,	Teaching- 11 yrs.(since 1997)
4	Dr. Milan Chakraborty	M. Sc.(Ag.) Ph.D. Entomology	Teaching -17 yrs in PG Level Research - 19 yrs.
5	Dr. D.K. Thakur Former Professor Ranchi Veterinary College Birsa Agricultural University	Ph. D., Vet. Science	Teaching- More than 35 yrs of PG & under graduate level.
6	Dr. A. K. Singh, Department of Aquaculture, Ranchi Veterenary College, BAU	Ph.D.Fish Breeding, M.Sc ( Zoology), Diploma Fishery Sc	Teaching- 16 yrs.
7	Dr. Umesh Tiwari	Ph.D. English	Teaching - More than 15 yrs.
8	Dr. A. Raza	M. Sc.(Ag.) Ph.D. Soil Micribiology	Teaching- More than 25 yrs in PG level

Sl. No.	Name and Address	Educational Qualification	Experience
9	Dr. P.K. Singh Lecturer, University Department of Sociology, Ranchi University	Ph. D, Sociology	Teaching – 22 yrs Research -5 yrs.
10	Dr. M.K. Jamuar	M. Sc. Zoology Ph. D, Ecology	Teaching- 27 yrs.
11	Dr. U.K. Verma	M.Sc in Sociology Ph. D, Economics B Ed.	Research in Rural & Tribal Development, Teaching - 10 yrs.Research - 24 yrs
12	Dr. R.N. Roy Associate professor cum Senior Scientist, Horticulture, Dept of Horticulture, BAU	M. Sc.(Ag.) Ph.D, Horticulture	Teaching - 20 yrs in PG Level
13	Dr. K. Prasad, (Retd) Associate professor, Agronomy Dept. of Agriculture, BAU	M. Sc. Ag.( Agron) Ph. D. in Agronomy	Teaching - 25 years.
14	Dr P. Dash Sharma, Retd. Professor, Ranchi University	M.Sc,Ph.D Anthropology	Teaching – 28 yeas
15	Mrs .Bharati Jha Deptt of Aquaculture, BAU	M. Sc Botany, Diploma- Fisheries	Teaching – 08 yeas
16	Dr Niraj Kumar, Scientist, Deptt of PBG, BAU	M.Sc (Ag), Ph.D Plant Breeding	Teaching -07 years
17	Dr Rajani Gupta	M. Sc (Zoology), Ph. D Fisheries	Teaching -05 years
18	Mr S.K.Verma, Lecturer, Xavier Inst. of Social Sciences	B. Sc (Physics), PGDRD	Teaching -12 years
19	Dr Prakash Kumar, Lecturer (Statistics), BAU	M. Sc, Ph. D (Agril. Stat.)	Teaching -15 years
20	Dr. G. P.Srivastava, BAU	M. Sc, Agronomy Ph. D (Agro)	Teaching -25 years
21	Dr. S. K. Thakur Block Veterinary Officer	M Sc. (Vet Scince) Ph. D. (Vet Scince)	
22	Dr. K. K.Prasad HOD, Dept of Horticulture, BAU	Ph. D. in Horticulture	Teaching- 25 years

**2.34.3. Narendrapur Faculty Centre**

A fairly exhaustive list of guest lectures given by different eminent persons at different times is given below.

Year	Guest lecturer	Topic
2007	Dr. Debabrata Dasgupta, Former Vice Chancellor, Bidhan Chandra Krishi Viswavidyalaya, Nadia and Professor of Agricultural Extension, Visva Bharati, Santiniketan	“Global Warming”
	Dr. Bernhard Hoepfer, Incharge of the Geographically Based Programme- India (GBPI) of German Agro Action (GAA), Bonn	GAA organization, its goal, activities etc.
	Professor P.N. Roy, former Pro-Vice Chancellor of Calcutta University and presently the member of the Planning Commission of West Bengal	‘World Trade organisation’ and ‘Intellectual Property Rights’,
	Chief General Manager of the National Bank for Rural and Agricultural Development (NABARD)	Sharing views and opportunities of students at NABARD
	Dr. Chandrasekhara, Faculty of National Institute of Agricultural Extension Management	Agri-clinic, Agri-entrepreneurship and Agri- business
	Prof. D. Dasgupta, former Vice Chancellor, Bidhan Chandra Krishi Viswavidyalaya	Higher Education at the Cross Roads”
	Mr. R. K. Pal, Management Consultant, ISO (UK)	Methods of Standardisation of Organisations
2008	Ms. T. Bhowmick from Sanlaap, a non-gov- ernment organization	violence against women
	Dr. Sheikh Rahim Mondal, Professor in the Centre for Himalayan Studies, North Bengal University	effect of globalization on rural development
	Prof. R. N. Bose, Chairman, Agricultural Commission- West Bengal and former Vice Chancellor, Calcutta University; Dr. S. D. Chatterjee, Director of Agriculture , Govt of West Bengal	“Promotion of Sustainable Agriculture”

Year	Guest lecturer	Topic
	Dr. N. Balasubramani, Faculty member of MANAGE, Hyderabad,	Time Management
	Mr. Manas Dey, Manager Operation, and Mr. Sumit Sarkar, Senior Consultant SREI Sahaj E-village limited, South 24 Parganas district,	Common Service Centre Scheme
2009	Eminent scientist Dr. Y. S. Rajan, Principal Advisor, Confederation of Indian Industries (CII)	different aspects of Rural Developmnet in the context of micro and macro aspects of developmental economics
	Mr. M. N. Roy, State Programme Manager, Save the Children, India	basic child right, problems of rural children, its causes and intervention strategies
	Prof. Trilochan Shastry, Dean, Indian Institute of Management, Bangalore	Cooperatives
	Dr. B. Chowdhury, Managing Director, Liebigs Agro Chem Pvt. Ltd.	entrepreneurship development utilizing dif- ferent agro-based biotechnology like biofer- tilizer, biopesticides, vermicompost etc
	Professor N. Selvaraj, Professor and Head, Institute of Commercial Horticulture, Tamil Nadu Agricultural University, Udhagamandalam, Tamilnadu	'Organic Horticulture'
	Dr. A. K. Hui, Deputy Director of Agriculture (Bio-control Lab.), Office of the Joint Director of Agriculture (Plant Protection & Quality Control), Govt. of West Bengal	Bio-intensive farming

List of Guest Lecturers who are taking classes regularly is given below:

Serial No:	Name	Designation
1	Dr.Amal Kumar Mallick	Reader (Retd) BCKV
2	Arin Ghosh	IFS (retd )
3	Dr.Bipul Behari Biswas	Consultant, Statistics & Public Health under KEIP
4	Dr.Dipankar Dasgupta	Ex Vice Chancellor, BCKV
5	Dr. Naresh Chandra Dutta	Professor (Retd)

Serial No:	Name	Designation
6	Prosenjit Chakraborty	Regional Manager
7	Dr. Sitesh Chandra Roy	Professor & Head (Retd) Deptt of Community Medicine
8	Dr.S.N.Mitra	Director, Law College, Durgapur
9	Hirak Banerjee	Lecturer
10	Prasanna Ash	Programme Coordinator (Education)
11	Dr.Anirudha Mukherjee	Professor
12	Dr. Shanker Bhoumik Res:Nagendra Apartment, Flat-F/6,7,N.K.Chatterjee Lane,Kolkata-700 035	Professor
13	Kanak Mukhopadhyay	Managing Director
14	Dr.Debasish Basu	Reader
15	Dr.Shankar Acharya	Professor
16	Prof Jaydeb Majumdar	Deputy Director
17	Mrs.Tapati Bhoumik	
18	Ms Subrata Chakraborty	Programme Coordinator
	ABBT Faculty	
1	Ms.Moumita Gangopadhyay	Senior Research Fellow
2	Dr. Rambilash Mallik	Lecturer
3	Prof. Sibanisankar Ghatak	Professor
4	Dr. Shyamal Kumar Ghose	Professor
5	Dr.S.K.Gupta	Former Joint Director & Emeritus Scientist
6	Prof. Sosthi Poi	Professor
7	Dr.Sudipta Tripathi	Farm Manager Agricultural Experiment Farm, University of Calcutta
8	Mr.Utpal Banerjee	Expert In Bee Keeping
9	Prakash Kanti Das	Former Head, Deptt of Genetics, BCKV
10	Dr.Bhabananda Chatterjee	

Serial No:	Name	Designation
11	Dr.(Mrs) Chhanda Mondal	BotanistPharmacologist
12	Dr.Pinaki Acharya	Lecturer & Head
13	Dr.Tarasankar Bandyopadhyay	Chief Scientific Officer
14	Mr.Utpal Biswas	Mushroom Expert
15	Ms.Tanima Chakraborty	Bioinformatics Expert
16	Dr.Sanat Kumar Sasmal	Fishery Expert

#### 2.34.4. Coimbatore Faculty Centre

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

SL	Year	Guest Lecture
1	2005	Sri.T.Dharnarajan, Headmaster (Retd.,) and recipient of the National Best Teacher Award, delivered a lecture on Qualities of a good teacher on 5 October2005. All the students undergoing the Diploma level, B.Ed. and M.Ed courses attended the lecture.
2	2007	Staff and students attended a lecture delivered by Pravrajika Brahmaprana from Vedanta Society of Southern California, Hollywood, U.S.A., on 'A Role Model for Today', at the GKD Auditorium on 14 November 2007.
3		Smt. Amutha Dhandapani and Selvi K.M.D. Mathula delivered a talk on 'Art, Music and Festivals of India – Paintings, Dances of India' on 22 December 2007 as part of the value-education programme.

SL	Year	Guest Lecture
4	2008	Mrs. Sujata Misal, Principal, KMCH College of Occupational Therapy, Coimbatore, delivered a guest lecture on 'Occupational therapy and fine motor enhancement activities to children with mental retardation', on 21 November 2008. B.Ed. and M. Ed. students of the faculty attended the lecture
5		Mr. Amalraj, Vice-President, National Federation of the Blind, Chennai, and an expert in Braille delivered guest lecture to the participants on 01.09.2008.
6		Mr. Kasimani, Braille Teacher from NIVH, Regional Centre, Chennai delivered guest lecture on 02.09.2008.
7		Mr. K. Rajagopal, Lecturer, NKT College of Special Education, Chennai delivered guest lecture on 04.09.2008.
8		Mr. S.M.A. Jinnah, General Secretary, Indian Association for the Blind, Madurai, delivered guest lecture on 09.09.2008
9		Mrs. Sujata Misal, Principal, KMCH College of occupational therapy, Coimbatore delivered guest lecture on "Occupational therapy and fine motor enhancement activities to children with mental retardation" to B. Ed. & M.Ed. students on 21 November 2008.
10	2009	Dr. Jaya Muthu, former Dean, Avinashilingam University delivered a lecture on "Redefining the role of teachers" on 2 April 2009.
11		Swami Atmaramanandaji Maharaj, Administrative Head, FDMSE delivered a lecture on "Cultural Problems of Post-Independent India - Factors which foster National Integration - Ways of Strengthening them" on 8 September 2009. as part of Value Education Programme.
12		Eternal Cultural Values of Ancient India – Spirituality, Simplicity, Purity, Truth, Tolerance, Catholicism, etc.
13		Cultural problems of post-independent India
14		Factors that foster national integration – ways of strengthening them
15		Swami Vivekananda's Humanism and its educational implications –Realization of religion as a vehicle for international understanding
16		Synthesis of Science and Religion for International Development
17		Integration of Spiritual Knowledge and Science and Technology for National Development and Enlightened Citizenship
18		Architecture, Sculpture and Famous Temples of India
19		Intelligence and creativity – identification and promotion of creativity'
20		Developing self-reliance, self-discipline, self-culture, self-study and physical fitness'
21		Sociological determinants of integration, teacher's role in strengthening integrative and cohesive forces? causes and prevention of social tension and conflicts among youth'

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

SL	Year	Guest Lecture
1	2007	In the month of April Mr. Troy W. Greison, Managing Director, Special Olympics Asia Pacific, Mr. Harpreet Singh Special Olympics Asia Pacific, New Delhi, Mr. D.G. Chaudhary Special Olympics Bharat, Gujarat Dr. Rajeev Prasad from Special Olympics Asia Pacific, New Delhi was taken was given a guest lectures in the topic of Special Olympics syllabus.
2	2008	In the month of October Dr.M.L.Kamalesh, Former principal of Lakshimibai National College of Physical Education, Trivandrum, on "National Sports Policy"
3	2009	In the month October Dr Gunasekaran delivered Special guest lecture in the topic "Awareness of the forest birds and animals".

#### 2.35. Industry/institution interface (outreach to other institutions/industry):

##### 2.35.1. Narendrapur Faculty Centre

- i. The students of the first batch of ABBT (2006-07) are continuing their internship at Synergy Biotech, Durgapur and two other organizations.
- ii. List of students along with the organizations where the IRDM students of Semester-III(2006-07) will be placed during their "on the job training" is given hereunder:

Name of organisation	Name of the student
State Rural Development Agency (SRDA) 63, Netaji Subhas Road, Kolkata-700001	Pritam Bhattacharyya Soma Das Gopal Nunia Uttam Kr. Sarkar Arun Kr. Das Malay Sankar Biswas Tanusree Mazumder
Sanlaap, 38B, Mahanirban Road, Kolkata-29	I. Sankhadip Bhattacharyya
CINI, P.O. Pailan via Joka, Kolkata-104	Anirban Ray Shreya Sengupta
Sambandh, Plot No.-2926/5198, Jayadev Nagar, Lews Road, Bhubeneswar-751002	I. Prosenjit Mondal
Pradan, Lal Mohan Trivedi Lane, Nilkuthi Danga, Purulia-723101, West Mengal	Zinia Yeasmin Anirban Banerjee Malay Pal

- i. Between 07.01.2009 to 15.01.2009, the Semester-III students of IRDM course were on their “On the job training” at different organizations working in the field of rural development. List of the students along with the organizations where they were placed is given below-

Name of organisation	Name of the student
State Rural Development Agency (SRDA) 63, Netaji Subhas Road, Kolkata-700001	Indira Biswas Saikat Majumder Tezoshi Khawas Tania Biswas
SOS Children Village Worldwide, Salt Lake City, Kolkata	1. Rumela Roy Chowdhury 2. Senjuti Mondal
Child In Need Institute (CINI), PO. Pailan via Joka, Kolkata-104	Namrata Dey Shatabdi Saha
Development Research Communication & Services Centre (DRCSC), 18B, Gariahat Road (South), Dhakuria, Kolkata 700031.	1. Sonai Sen
Professional Assistance for Development Action (PRADAN), Lal Mohan Trivedi Lane, Nilkuthi Danga, Purulia-723101, West Bengal	Avik Talukder Sayanti Sur Sayantani Jana

- Students of ABBT course were on a field placement between 20 July and 25 July, 2009 on at Vivekananda Institute of Biotechnology, Ramakrishna Ashrama, Nimpith, South 24 Parganas. From this placement students got the opportunity to learn the mass production methodologies of different agro inputs like Biofertilizer, Biopesticides, Biological Control, Vermicompost and micropropagation.
- The students of second semester (IRDM) enjoyed the opportunity for visiting Association for Social Health India (ASHI), 9 Asoke Avenue, Kolkata-6 on 10.08.09.
- The students of Semester II (IRDM) were on field visit at Save Our Soul (SOS) Village

## 2.35.2. Coimbatore Faculty Centre

### 2.35.2.1. Faculty of ‘General & Adapted Physical Education and Yoga’

» The University has signed MoUs with the following institutions to share and extend its services to following institutions for the benefit of the parties involved and with a view to impart training to students of our faculty:

- Department of Physical Education, Bharathiar University: To share infrastructure facilities, research labs, etc., to promote sports and research at various levels.
- With DFO (District Forest Officer), Coimbatore Circle, to conduct sports and games for the forest department and to utilize facilities available with the forest department to conduct annual leadership camp for our students in evergreen forests under the department.
- Parthiban Nursing Home: To conduct sports and games for their staff by utilizing facilities available with our faculty and to share their medical facilities, etc., for the benefit of our students

and staff.

iv. RKMV Polytechnic College: to conduct sports and games for the polytechnic and to utilize facilities available such as computer labs, etc., for conducting academic programs, feedback from students, net facilities, etc. for the benefit of the students and staff.

» The University interacted with various schools, colleges and other governmental and non-governmental agencies as part of its outreach program. The details are given below:

Sl.No	Year	Program
1	2008	Organized minor games sports programme for all the students studying in the Vidyalaya Polytechnic College (around 850 students) on their college Annual Day celebrations.
2		61 students of the University Faculty were engaged in spotting sporting talents of boys below the age of 12 in various schools in Coimbatore District. Nearly 6000 students were screened in nine days.
3		All the B.P.Ed students went for teaching practice to different schools in Coimbatore educational district
4		The University students officiated in the Annual Athletic Meet of the SNS College of Technology, Coimbatore
5		The University students acted as officials in the Coimbatore District Sports Meet for the disabled at the Nirmala College, Coimbatore
6		Free coaching classes was started during weekends in basket ball & volley ball for children living near the Vivekananda College, Mylapore, Chennai
7		The University staff acted as officials in the Coimbatore District Inter Collegiate Athletic Association's tournament in hockey & handball events.
8		Staff members and students of the University acted as officials in the Inter – Polytechnic Divisional Level Kho-Kho tournament
9		The University staff acted as a official 44 <sup>th</sup> All India PSG Tech Basket Ball tournament 2008 held at PSG College of Technology, Coimbatore
10		The University Faculty acted as officials in the Bharathiyar University Inter collegiate Football tournament held at Ramakrishna Mission Vidyalaya premises

Sl.No	Year	Program
11	2009	The University Faculty staff members acted as coach for the Coimbatore District Handball Team in the Tamilnadu State Championship Handball tournament held at Nagasiva polytechnic college, Madurai
12		The University Faculty students acted as selection members for Anna University football & basketball team respectively
13		A mini tennis program was launched by the University to create awareness and interest among school going children of Periyanaickenpalayam region
14		The Faculty is successfully conducting a Ramakrishna Mission Sports Academy for Tennis and Cricket at Chennai centre
15		The Faculty PG Diploma / Diploma in Special Olympics students underwent teaching practice in adapted physical activities for the intellectually challenged children studying in TAT Kalanilayam middle school.
16	2009	The University students underwent teaching practice in teaching physical activities to 137 Intellectually Challenged children (85 boys and 52 girls) and 137 normal children (86 boys and 51 girls) for 15 days to students studying in around 80 schools under the Sarva Siksha Abhiyan schools in 10 blocks of Coimbatore district

## 2.36. Results during the last 5 years or since the conferment of the deemed university status:

### 2.36.1. Belur Main Campus

#### 2.36.1.1. School of Indian Heritage—Depts. of Sanskrit and Bengali

- i. Five students (Ph.D. scholars) received their M.Phil. Sanskrit on successful completion of the two-year course work and dissertation at the annual convocation at Belur in July 2009.
- ii. Since the 5-year integrated M.A. course in Sanskrit was started only 3 years ago, the final results will be out only in 2012.
- iii. Six students (Ph.D. scholars) received their M.Phil. Bengali on successful completion of the two-year course work and dissertation at the annual convocation at Belur in July 2009.

#### 2.36.1.2. School of Mathematical Sciences—Depts. of Mathematics, Computer Science and Physics

The Departments of Mathematics and Computer Science started their respective M.Sc. courses in 2008, and the Department of Physics the M.Phil. course also in the same year 2008, so the results of these students were finalized only in June 2010. Four students of Physics are receiving their M.Phil. degrees on successful completion of their 2-year course work and dissertation, at the annual convocation on 4 July 2010. Ten students and M.Sc. computer science and nine students of M.Sc. Mathematics course are receiving their M.Sc. degrees at the annual convocation on 4 July 2010 on successful completion of their courses of study.

**2.36.2. Ranchi Faculty Centre**

Cumulative Grade Point Average (CGPA) of the 'Integrated M.Sc. in Integrated Rural & Tribal Development and Management' students (2006-2011 batch) for first six semesters (three years) is given below:

Name of the student	CGPA
1. Subhabesh Ghosh	7.15
2. Ramkrishna Mahto	6.97
3. Sudarshan Biswas	8.52
4. Ramprakash Kumar	6.55

Cumulative Grade Point Average (CGPA) of the 'Integrated M.Sc. IRTDM students (2007-12 batch) for the first four semesters is given below:

Name of the student	CGPA
1. B. Sushil Kumar	8.22
2. Yogendra Kumar	6.00
3. Jagdish. Kr. Mahto	6.25
4. Abhisekh Chatterjee	7.25
5. Parth Sarthi	8.66
6. Krishna Bedia	5.69

**2.36.3. Narendrapur Faculty Centre****Course : M.Sc in Integrated Rural Development & Management**

Year	No.of students appeared	No of students passed	No of students secured first class
2006-2008	14	14	14

**Course : P.G.Diploma in Agro-based Biotechnology**

Year	No.of students appeared	No of students passed	No of students secured first class
2006-2007	10	10	10

Year	No.of students appeared	No of students passed	No of students secured first class
2007-2008	09	09	09

**2.36.4. Coimbatore Faculty Centre****2.36.4.1. Faculty of ‘Disability Management and Special Education’**

Year	Students Appeared	Students Passed	Students secured First Class
2005-06	74	74	72
2006-07	73	73	73
2007-08	74	73	71
2008-09	57	57	56

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

Year	Students appeared	Students passed	Students secured First Class
2007-08	27	27	27
2008-09	88	88	88

**2.37. Placement details of the students during the last 5 years or since the conferment of the deemed university status:****2.37.1. Belur Main Campus—Department of Mathematics**

2006-08 Batch: The same academic programme that is running in Ramakrishna Mission Vivekananda University today ran its first cycle (as a pilot project) in Ramakrishna Mission Vidyamandira, affiliated to Calcutta University. Since 2008, this programme has been running at Ramakrishna Mission Vivekananda University.

4 out of 12 won the National Board of Higher Mathematics (NBHM) MSc scholarship (given to 30 students across the country in the year)

Placement: Out of 12 incoming students in the first batch, 11 have gone on for PhD's:

- » 1 to Rutgers, USA
- » 3 to IMSc Chennai
- » 4 to Indian Statistical Institutes
- » 2 to the IIT's
- » 1 to TIFR Bangalore

**2008-10 Batch:**

1 out of 6 won the National Board of Higher Mathematics (NBHM) MSc scholarship (given to 20 students across the country in the year)

**2009-11 Batch:**

4 out of 9 won the National Board of Higher Mathematics (NBHM) MSc scholarship (given to 20 students across the country in the year). It is noteworthy that they won this scholarship while still BSc students.

Sayan Das, a first year MSc student, presented a paper in the 9th National Workshop on Cryptology held at Sardar Vallabhai Patel National Institute of Technology, Surat, from 7-9 August 2009, organised by Cryptology Research Society of India.

**2.37.2. Ranchi Faculty Centre**

Out of six ABBT students of the first batch (2006-07) four boys were recruited by the Excel India (Pvt.) Limited as Village Agricultural Practitioners (VAP) through a campus interview held on 17.11.2007. As an apprentice each one is getting a consolidated remuneration of Rs.7000/- per month. One girl student appeared in an interview conducted by Nicolas Pharmaceuticals (Pvt.) Limited, Hyderabad and was selected for the post of Sales Manager. Under on-the-job training programme one other girl student was sent to the Vivekananda Institute of Biotechnology, Neempith for a two months' training and she has successfully completed the training on in March 2008. She has also got a job offer.

**2.37.3. Narendrapur Faculty Centre**

M.Sc. Integrated Rural Development and Management (2006-08 batch)

Sl. No.	Student	Organisation	Designation
1.	Soma Das	Professional Assistant for Development Action	Apprentice (Executive)
2.	Prosenjit Mondal	Professional Assistant for Development Action	Apprentice (Executive)
3.	Anirban Banerjee	Development Research Communication & Services Centre	Field Organizer
4.	Tanusree Majumder	Professional Assistant for Development Action	Assistant (Professional)
5.	Anirban Ray	Professional Assistant for Development Action	Assistant, Professional
6.	Arun Kumar Das	Professional Assistant for Development Action	Assistant, Professional
7.	Zinia Yeasmin	Professional Assistant for Development Action	Assistant, Professional

Sl. No.	Student	Organisation	Designation
8.	Malay Sankar Biswas	Professional Assistant for Development Action	Assistant, Professional

## PG Diploma in Agro-Based Bio-technology (2006-07 batch)

Sl. No	Name of the student	Organization
1	Mr. Mithun Saha	Wants to go for research in Biotechnology
2	Miss Monami Choudhury	Supervisor, Plant Tissue Culture Laboratory, Synergy Biotechnologies, Durgapur
3	Sudipta Bose	Assistant operation manager, Behala, Kolkata-700060
4	Miss Sumangala Das	Field Assistant, Department of Food Processing & Horticulture, Agra Block-II, East Midnapore,-741452
5	Miss Indrani Dutta	Village Agricultural Practitioner, Excel Crop Care Limited, Kolkata
6	Mr. Manotosh Mahato	Village Agricultural Practitioner, Excel Crop Care Limited, Kolkata
7	Miss Poulami Pal	Agriculture Accountant, Agriculture Known You Seed Pvt. Ltd., Kolkata
8	Mr. Priyanka Chhandogi	Village Agricultural Practitioner, Excel Crop Care Limited, Kolkata
9	Mr. Arnab Ray	Trainee, Quality Assurance, Caventer, Kolkata
10	Mr. Amalendu Banerjee	Got admission M.Sc. in Horticulture in Calcutta University

## PG Diploma in 'Agro-based Bio-technology' (2007-08 batch)

Sl. No.	Student	Designation/Organization
1.	Aniruddha Kr. Ray	Farm Supervisor-cum Trainer(Mushroom),Sarbik Vivekananda Gram Seva Sansthan, Kkhanakul, Hooghly
2.	Himadri Ranjan Das	Assistant Trainer, Agricultural Training and Demonstration, Bredhabeda Farm, RKM Ashrama, Narainpur, Chhattisgarh
3.	Suvankar Ghosh	Assistant Trainer, Agricultural Training and Demonstration, Bredhabeda Farm, RKM Ashrama, Narainpur, Chhattisgarh
4.	Nirupam Mondal	Assistant Trainer, Agricultural Training and Demonstration, Bredhabeda Farm, RKM Ashrama, Narainpur, Chhattisgarh
5.	Moumita Dinda	Technical Assistant (Agriculture), Shamyita Math, Bankura
6.	Jayati Kole	Joined higher studies (M.Sc. in Microbiology, Brindaban College, Bangalore)
7.	Kasturi Hatui	Joined higher studies (M.Sc. in Microbiology, Brindaban College, Bangalore)

#### 2.37.4. Coimbatore Faculty Centre

##### 2.37.4.1. Faculty of ‘Disability Management and Special Education’

**2005-06**

S.No.	Name	Course	Placement
1	Nguyen Lai Hong An	M.Ed	Foreign student- Returned back to native land (Vietnam) after completing the course
2	Kandasamy M.P	M.Ed	Working as Lecturer at FDMSE
3	Nguyen Van Khoa	M.Ed	Foreign student- Returned back to native land (Vietnam) after completing the course
4	Mayilswamy D	M.Ed	Working as Special Educator(SSA) at FDMSE
5	Hoang Thi Nga	M.Ed	Foreign student- Returned back to native land(Vietnam) after completing the course
6	Sambath Rani K	M.Ed	Working as Lecturer at ADU
7	Sreenivasan P.V	M.Ed	Working as Lecturer atNIVH, Regional Centre, Chennai

S.No.	Name	Course	Placement
8	Subramanian M	M.Ed	Working as Production Manager Braille Production Unit at FDMSE
9	Nguyen Hiep Thuong	M.Ed	Foreign student- Returned back to native land(Vietnam) after completing the course
10	Banureka N	M.Ed	not willing to go for job due to family circumstances
11	Sunderavadivelu A	M.Ed	doing private practice as speech therapist
12	Vijayakumar R	M.Ed	working as PRO in FDMSE
13	Prabha I	M.Ed	Working as Lecturer at Sathyabhama University, Chennai
14	Abraham Jegan D	B.Ed	Working as PG Asst
15	Balamurugan R	B.Ed	Working as Special Educator(SSA) at FDMSE
16	Balasundaram U	B.Ed	Working as PG Asst
17	Christy Joy R	B.Ed	Working as Special Educator(SSA) at Madurai
18	Dessamma K	B.Ed	Working as PG Asst
19	Dheesha J.B	B.Ed	Working as Lecturer at FDMSE
20	Karthi Kumar U	B.Ed	Working as Special Educator(SSA) at Erode
21	Malarkodi P	B.Ed	Working as BT Asst
22	Muniswari N	B.Ed	Working as BT Asst
23	Nagaraj R	B.Ed	Working as Special Educator(SSA) at FDMSE
24	Paul Rajakumari R	B.Ed	Working as BT Asst
25	Ponnusamy K	B.Ed	Working as Special Educator(SSA) at Erode
26	Sankar N	B.Ed	Working as Special Educator(SSA) at FDMSE
27	Santhosh Kumar K	B.Ed	Working as Lecturer in Teacher Training Institute
28	Selvarani V	B.Ed	Working as Special Educator(SSA) at FDMSE
29	Teekaraman R	B.Ed	Working as Lecturer in College of Education
30	Vetrivelan R	B.Ed	Working as Special Educator(SSA) at Chennai
31	Vithya S	B.Ed	not willing to go for job due to family circumstances
32	Vidhya Priya M	B.Ed	Working as Teacher at Amritha Vidyalaya, Coimbatore
33	Yesammal R	B.Ed	Working as BT Asst
34	Anand H	B.Ed	Own Business
35	Arockia Vanitha G	B.Ed	Working as Special Educator(SSA) at Dindugal
36	Arockiam V	B.Ed	Working as Special Educator(SSA) at Dindugal
37	Bhuvaneswari P	B.Ed	Working as Special Educator(SSA) at Dindugal

S.No.	Name	Course	Placement
38	David Gnanaraj P	B.Ed	Working as Special Educator(SSA) at Dindugal
39	Jai Ganesh M.B	B.Ed	Working as Research Assistant
40	Kalpana Devi M	B.Ed	not willing to go for job due to family circumstances
41	Mary Bindu X	B.Ed	Working as speech therapist in Africa
42	Parvathi N	B.Ed	Working as Special Educator(SSA) at FDMSE
43	Pasumathy P	B.Ed	Working as Lecturer in College of Education
44	Praveena K	B.Ed	Working as BT Asst
45	Rajesh J	B.Ed	Own Business
46	Raman P	B.Ed	Own Business
47	Ramashree V.S	B.Ed	Working as Special Educator(SSA) at FDMSE
48	Sangeetha R	B.Ed	Working as BT Asst
49	Umarani R	B.Ed	Working as Special Educator(SSA) at FDMSE
50	Vinoth S	B.Ed	Own Business
51	Backialakshmi S	B.Ed	not willing to go for job due to family circumstances
52	Maheswari G	B.Ed	working as special teacher
53	Mala R	B.Ed	working as resource teacher
54	Malathi S	B.Ed	not willing to go for job due to family circumstances
55	Mangalavalli K	B.Ed	Working as Special Educator(SSA) at FDMSE
56	Selvakumari V	B.Ed	Working as Special Educator(SSA)
57	Uthayavathi S	B.Ed	Working as play therapy unit incharge at FDMSE
58	Venkatesan R	B.Ed	Working as Special Educator(SSA)
59	Rose Mary V	Diploma	Working as special teacher
60	Divya C	Diploma	Working as special educator
61	Kalaiyarasi S	Diploma	Working as special educator
62	Loganayaki R	Diploma	Working as Resource teacher
63	Anbarasan U	Diploma	Working as Special Educator
64	Aravintharaj P	Diploma	Working as Special Educator
65	Backiamahalakshmi D	Diploma	Working as Special Educator
66	Deivanai S	Diploma	Working as Special Educator
67	Muthukumar S	Diploma	Working as Special Educator
68	Ramya K	Diploma	Working as Special Educator
69	Renu P	Diploma	Working as Special Educator

S.No.	Name	Course	Placement
70	Sasikala B	Diploma	Working as Special Educator
71	Sathiya P	Diploma	Working as Special Educator
72	Sathiyakala P	Diploma	Working as Special Educator
73	Anitha V	Diploma	Working as Field Worker
74	Arjunan D	Diploma	Working as Field Worker
75	Cecilia Mary L	Diploma	Working as Field Worker
76	Hailu Gebre Ayele	Diploma	Foreign student- Returned back to native landafter completing the course
77	Manojkumar S	Diploma	Working as Field Worker
78	Sunthari P	Diploma	Working as Field Worker
79	Vennila R	Diploma	Working as Field Worker
80	Anandakumar P	Diploma	doing higher studies
81	Arunarani V	Diploma	doing higher studies
82	Nagulampikai Kanthar	Diploma	Foreign student- Returned back to native landafter completing the course
83	Ramakrishnan S	Diploma	doing higher studies
84	Anrose Nelson M	Diploma	working as Sign Language Interpreter
85	Jansi Rani J	Diploma	working as Sign Language Interpreter
86	Karen Hebzibha D	Diploma	working as Sign Language Interpreter
87	Rajkumari Luxmi Devi	Diploma	working as Sign Language Interpreter
88	Susanna D	Diploma	working as Sign Language Interpreter

**2006-2007**

S.No	Name	Course	Placement
1	Nagaraj.R	M.Ed	Working as Special Educator (SSA) at FDMSE
2	Ramesh.G.R	M.Ed	Working as Principal in College of Special Education
3	Sankar.N	M.Ed	Working as Special Educator (SSA) at FDMSE
4	Santhosh Kumar.K	M.Ed	Working as Lecturer in Teacher TrainingInstitute
5	Saravanan.R	M.Ed	Working as Lecturer in Special Education
6	Selva Vinayagam.V	M.Ed	WorkingasLecturerin Special Education
7	Arokia Mary.C	M.Ed	Working as Special Educator (SSA) at Madurai

S.No	Name	Course	Placement
8	Jai Ganesh.M.B	M.Ed	Working as Research Assistant
9	Kalaivani.K	M.Ed	Working as Special Teacher
10	Vasanthi.K	M.Ed	Working as special teacher
11	Maheswari.G	M.Ed	Working as special teacher
12	Malathi.S	M.Ed	Not willing to go for job due to family circumstances
13	Renugadevi.C	M.Ed	Working as Lecturer at FDMSE
14	Aarthy.B	B.Ed	Working as Special Educator (SSA) at FDMSE
15	Arumani.G	B.Ed	not willing to go for job due to family circumstances
16	Chinnammal.M	B.Ed	Working as BT assistant
17	Dhanalakshmi.K	B.Ed	Working as Low vision unit incharge at FDMSE
18	Ganthimathi.D	B.Ed	Working as Special Teacher
19	Hilda Caris Martha.A	B.Ed	Working as Special Teacher
20	Jeeva.M	B.Ed	Working as Special Teacher
21	Malarkodi.P	B.Ed	Working as Special Educator (SSA)
22	Nagarajan.K	B.Ed	Working as BT Assistant
23	Pandiarajan.N	B.Ed	Working as Resource Teacher
24	Poomadevi.V	B.Ed	Working as Resource Teacher
25	Preetha.K	B.Ed	Working as Resource Teacher
26	Rathi.C	B.Ed	Working as Resource Teacher
27	Revathi.S	B.Ed	Working as Special Teacher
28	Sakthivel.C	B.Ed	Working as PG Assistant
29	Senthil.N	B.Ed	Working as Special Educator (SSA) at FDMSE
30	Sriram Choudhry.S	B.Ed	doing higher studies
31	Valarmathi.K	B.Ed	doing higher studies
32	Vasanth Kumar	B.Ed	Working as Special Educator (SSA) at Erode
33	Deepthi .K.G	B.Ed	Working as Special Teacher
34	Gayathri.G	B.Ed	doing higher studies
35	Gowri.N	B.Ed	Working as Speech therapist
36	Hamsapriya.S.N	B.Ed	Working as speech therapist
37	Maheswari.N	B.Ed	doing higher studies
38	Nagarathinam.P	B.Ed	doing higher studies
39	Periasamy.K	B.Ed	working as resource teacher

S.No	Name	Course	Placement
40	Prabu.P	B.Ed	working as special teacher
41	Ramachandran.V	B.Ed	working as resource teacher
42	Ramkumar.S	B.Ed	doing higher studies
43	Ravin.A	B.Ed	doing higher studies
43	Reganraja.R	B.Ed	working as special teacher (SSA) at FDMSE
44	Senthil Kumar.S	B.Ed	Working as SpecialEducator (SSA) at FDMSE
45	Shanthi.S	B.Ed	Working as Resource teacher
46	Thiyagarajan.B	B.Ed	doing higher studies
47	Thundaiyan.M	B.Ed	Working as Special Educator (SSA) at FDMSE
48	Usha Rani.P	B.Ed	doing higher studies
49	Vairavel.M	B.Ed	Working as Special Educator (SSA) at FDMSE
50	Vanaja.R	B.Ed	doing higher studies
51	Vijaya.B	B.Ed	doing higher studies
52	Vijayalakshmi.R	B.Ed	doing higher studies
53	Yogaraj.P	B.Ed	Working as Special Educator (SSA)
54	Aravind.C.R	B.Ed	Working as Lecturer in College of Special Education
55	Arunthathi.A	B.Ed	Working as Resource teacher
56	M.Sebasthiammal.A	B.Ed	Workingas Special teacher
57	Renukadevi.S	B.Ed	Working as Special Educator (SSA) at FDMSE
58	Soundararaj.P	B.Ed	doing higher studies
59	Sudha.A	B.Ed	Working as Lecturer at FDMSE
60	Boobilias Sairaks Roy.P	Diploma	Working as Resource teacher
61	Deva Priya.F	Diploma	Working as Resource teacher
62	Selvalakshmi.S	Diploma	doing higher studies
63	V.Alias Venkit .C	Diploma	Working as Resource teacher
64	Anitha.M	Diploma	Working as special teacher
65	Avila Catherine.R	Diploma	Working as special teacher
66	Eswari.C	Diploma	Working as special teacher
67	Priya.J	Diploma	Working as special teacher
68	Vanitha.P	Diploma	Working as Resource teacher
69	Asha.B	Diploma	Working as Resource Teacher
70	Selin Sophiya.P	Diploma	Working as special teacher

S.No	Name	Course	Placement
71	Suganya.N	Diploma	Working as Resource teacher
72	Udhyakumar.G	Diploma	Working as Special Educator(SSA) at Erode

**2007-08**

Sl	Name	Course	Placement
1	Ashish Kumar Gupta	M.Ed	Working as Principal in College of Special Education
2	Shopana .B	M.Ed	Working as Lecturer in College of Special Education
3	Gowri .N	M.Ed	Working as Speech Therapist
4	Hamsapriya .S.N	M.Ed	Working as speech therapist
5	Sathya .S	M.Ed	Working as Lecturer in College of Education
6	Awadhesh Kumar Tiwari	M.Ed	Working as Lecturer in College of Education
7	Chellambabu .N.R	M.Ed	Working as Principal of special school
8	Gaurav Dubey	M.Ed	Working as Special Educatorin College of Education
9	Jameela .P.S	M.Ed	Working as Principal in College of Special Education
10	Jay Prakash Singh	M.Ed	Working as Lecturer in College of special education
11	Karthigai Selvi .S.V.S.J	M.Ed	Working as special educator
12	Krishna Kumar Srivastava	M.Ed	Working as coordinator in special school
13	Mini Mathew	M.Ed	Working as lecturer in Special Education
14	MohammadK.Siddiqui	M.Ed	Working as Lecturer in College of Education
15	Nelson .S	M.Ed	Working as Special Teacher
16	Rathna Kumar .D	M.Ed	Working as Vice Principal in College of Education
17	Satyanarain Nai	M.Ed	doing higher studies
18	Sherly Mathew	M.Ed	Working as Lecturer in College of Special Education
19	Shuchi Dubey	M.Ed	Working as Lecturer in College of Education
20	Soundararaj .P	M.Ed	doing higher studies
21	Sudha .A	M.Ed	Working as Lecturer at FDMSE
22	Vidya .R.P	M.Ed	Working as Resource teacher
23	Dhurgadevi .M	B.Ed	Working as Resource Teacher
24	Jeyamary .V	B.Ed	Working as BT Asst
25	Kannimuthu .S	B.Ed	Working as Special Teacher
26	Latha .R	B.Ed	Working as Special Teacher

Sl	Name	Course	Placement
27	Manisekaran .C	B.Ed	Working as Special Educator
28	Rajavelan .P	B.Ed	Working as Special Educator (SSA) at FDMSE
29	Renuga .R	B.Ed	Working as Special Teacher
30	Sankar .A	B.Ed	Working as Special Educator (SSA) at FDMSE
31	Shiny Jacob	B.Ed	doing higher studies
32	Victoria .H	B.Ed	Working as Special Teacher
33	Anitha .D	B.Ed	Working as Special Teacher
34	Annapoorni .C	B.Ed	Working as special teacher
35	Dominic Sagayaraj .M.A	B.Ed	Working as Resource teacher
36	Jegadeesh .R	B.Ed	Working as Resource teacher
37	Jeevanantham .N	B.Ed	doing higher studies
38	Kalaivani .S	B.Ed	doing higher studies
39	Karpakam .D	B.Ed	doing higher studies
40	Karthika .C	B.Ed	Working as Special Teacher
41	Kaviyarasi .R	B.Ed	Working as Special Educator
42	Rajkumari Luxmi Devi	B.Ed	Working as Sign Language Interpreter
43	Nagalakshmi .M	B.Ed	doing higher studies
44	Kotaiah .N	B.Ed	Working as Special Educator
45	Poongothai .G	B.Ed	doing higher studies
46	Priya .A	B.Ed	Working as Special Therapist
47	S.Satishkumar Singh	B.Ed	Working as Sign Language interpreter
48	Selvalakshmi .K	B.Ed	Working as Special Teacher
49	Selvanayaki .P	B.Ed	doing higher studies
50	Thara .S	B.Ed	Working as Special Educator
51	Valarmathy .D	B.Ed	Working as Special Educator
52	Vijaya .M	B.Ed	Working as special teacher
53	Deepa Joseph	B.Ed	Working as Lecturer in College of Education
54	Kalavathi .G	B.Ed	Working as Lecturer in College of Special Education
55	Sr. Minimol Francis	B.Ed	Working as Special Teacher
56	Muthamil Selvi .S	B.Ed	Working as Special Teacher
57	V. Rajendra Prasad	B.Ed	Working as Special Teacher
58	Rama .T	B.Ed	Working as Special Teacher

Sl	Name	Course	Placement
59	Ramya .D	B.Ed	Working as Special Teacher
60	Revathi .M	B.Ed	Working as Special Teacher
61	Selva Deeba .X	B.Ed	Working as Special Teacher
62	Sivakumar .V	B.Ed	
63	Suganya .B	B.Ed	Working as Special Teacher
64	Vimala .K	B.Ed	Working as special educator
65	Nithya .P	Diploma	Working as resource teacher
66	Priya Dharshini .M	Diploma	Working as special educator (SSA) at FDMSE
67	Radhakrishnan .M	Diploma	Working asResource teacher
68	Rajaram .K	Diploma	Own Business
69	Sivakama Sundhari .L	Diploma	Working as Special Teacher
70	Yuvarani .S	Diploma	Working as Special Educator (SSA) at FDMSE
71	Kar thika .R	Diploma	Working as special teacher
72	Rajeshwari .R	Diploma	Working as special teacher
73	Akila .K	Diploma	Working as special teacher
74	Annie Sobana .D	Diploma	Working as Principal in Special School
75	Kanmani .M	Diploma	Working as Special teacher
76	Kochu Rani .K.J	Diploma	Workingas special teacher
77	Premalatha.J.A	Diploma	doing higher studies
78	Reka .K	Diploma	doing higher studies
79	Birundha .V	Diploma	Working as sign language interpreter
80	Durai Raj .V	Diploma	Working as sign language interpreter

**2008-09**

S.No	Name	Course	Placement
1	Dheesha.J.B	M.Ed	Working as Lecturer at FDMSE
2	Prabha Shankar Tripathy	M.Ed	Working as Lecturer in College of Special Education
3	Roopesh Kumar Atteri	M.Ed	Working as Lecturer in College of Special Education
4	C. Donnie Serene	M.Ed	Working as Research Assistant
5	Raju Govind Arakh	M.Ed	Working as Lecturer and Coordinator

S.No	Name	Course	Placement
6	Shoba.K	M.Ed	Working as Lecturer in College of Special Education
7	Sita Ram Pal	M.Ed	Working as Lecturer and Coordinator
8	Abha Shree	M.Ed	Working as Lecturer in College of Special Education
9	Amit Kumar	M.Ed	Working as Lecturer in College of Special Education
10	Bhola Vishwakarma	M.Ed	Working as Lecturer in College of Special Education
11	Boby Mathew	M.Ed	Working as Lecturer in College of Special Education
12	D. Kumar Tripathi	M.Ed	Working as Lecturer in College of Special Education
13	Dileep Sharma	M.Ed	Working as Lecturer in College of Special Education
14	Johnson Mathew	M.Ed	Working as Lecturer in College of Special Education
15	Mahendra Kumar	M.Ed	Working as Lecturer in College of Special Education
16	Moumita Biswas	M.Ed	Working as Lecturer in College of Special Education
17	M. Muthu Selvi	M.Ed	Working as Special Educator (SSA) at FDMSE
18	Rajpawan	M.Ed	Working as Lecturer in College of Special Education
19	Rajesh Kumar Singh	M.Ed	Working as Research Assistant
20	Rajesh Kumar Verma	M.Ed	Working as Lecturer in College of Special Education
21	Rituparna Sarkar	M.Ed	Working as Lecturer in College of Special Education
22	Sudhi Basheer	M.Ed	Working as Lecturer in College of Special Education
23	Swadesh Roy	M.Ed	Working as Lecturer in College of Special Education
24	Thresiamma Philip	M.Ed	Working as Lecturer in College of Special Education
25	Tom George	M.Ed	Working as Lecturer in College of Special Education
26	Vinod Kumar Kalra	M.Ed	Working as Lecturer in College of Special Education
27	Athira Gopakumar	B.Ed	doing higher studies
28	A. Joseph Raja	B.Ed	working as Special Educator (SSA) at FDMSE
29	Jeyamary.V	B.Ed	not willing to go for job due to family circumstances
30	Reena.K	B.Ed	doing higher studies
31	Shinoj.M.N	B.Ed	working as Lecturer in College of Special Education
32	S.G.Sumathira	B.Ed	working as Resource teacher
33	Kaviyarasi.R	B.Ed	doing higher studies
34	Afsar Khan	B.Ed	doing higher studies
35	Christy.V	B.Ed	doing higher studies
36	Dhananjay Kumar Pandey	B.Ed	doing higher studies

S.No	Name	Course	Placement
37	S. Elavarasi	B.Ed	working as special educator
38	Harish Kumar	B.Ed	doing higher studies
39	V. Indirani	B.Ed	working as special educator (SSA) at FDMSE
40	D. Jeya Prakash	B.Ed	Working as special educator (SSA) at FDMSE
41	D. Jyothi Imelda Rani	B.Ed	not willing to go for job due to family circumstances
42	M. Kalaimathi	B.Ed	working as special educator
43	Manisha Vaid	B.Ed	working as special educator
44	Martin .V.M	B.Ed	working as special educator
45	Nagarasan.N	B.Ed	working as special teacher
46	M. Poongodi	B.Ed	not willing to go for job due to family circumstances
47	Reetu Kataria	B.Ed	working as special teacher
48	Sudhir Kumar Singh	B.Ed	doing higher studies
49	Sunil Kumar	B.Ed	doing higher studies
50	K.Valli	B.Ed	not willing to go for job due to family circumstances
51	Wasim Ahmad	B.Ed	doing higher studies
52	Annamma.P.K	Diploma	working as special teacher
53	J. Karthick Prabu	Diploma	working as resource teacher
54	M.Renugambal	Diploma	working as resource teacher
55	Sherly Jacob	Diploma	working as special teacher
56	P.Rajeshwari	Diploma	not willing to go for job due to family circumstances
57	M.Saraswathy	Diploma	not willing to go for job due to family circumstances
58	D.Sumithra	Diploma	not willing to go for job due to family circumstances
59	Santhy Sahaya Mary.A	Diploma	working as special teacher

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

**2007-08**

Sl	Name	Course	Placement
1	Balasubramani	BPEd	Doing own business
2	Bharathkumar	BPEd	Working as Physical Education Teacher
3	Durairaj	BPEd	Working as Physical Education Teacher

Sl	Name	Course	Placement
4	Ekambaram	BPEd	Doing higher studies
5	Ezhilmaran	BPEd	Doing higher studies
6	Kannan	BPEd	Working as Physical Education Teacher
7	KarthiK.C	BPEd	Working as Physical Education Teacher
8	Karuppasamy	BPEd	Working as Physical Education Teacher
9	Manikandan.M	BPEd	Doing higher studies
10	Manikandan.R	BPEd	Working as Physical Education Teacher
11	Manojkumar	BPEd	Working as Physical Education Teacher
12	Mohankumar	BPEd	Working as Physical Education Teacher
13	Muthuraj	BPEd	Working as Physical Education Teacher
14	Praveenkumar	BPEd	Working as Physical Education Teacher
15	Raja.P	BPEd	Doing higher studies
16	Rajesh kannan.M	BPEd	Doing higher studies
17	Rajesh.n	BPEd	Working as Physical Education Teacher
18	Saravanan	BPEd	Working as Physical Education Teacher
19	Sasikumar	BPEd	Working as Physical Education Teacher
20	Selvam	BPEd	Working as Physical Education Teacher
21	Subbaraj	BPEd	Doing own business
22	Sundaramoorthy	BPEd	Doing own business
23	Sureshkumar	BPEd	Working as Physical Education Teacher
24	Udhayakumar	BPEd	Working as Physical Education Teacher
25	Vediyappan	BPEd	Working as Physical Education Teacher
26	Vijayakumar	BPEd	Working as Physical Education Teacher
27	Vijayakumar	BPEd	Working as Physical Education Teacher

**2008-09**

S.No	Name	Course	Placement
1	Amal Sambath Kumar N.B	MPed	Working as Physical Education Teacher
2	Gnanavel. R	MPed	Working as Physical Education Teacher
3	Karthikeyan .K	MPed	Working as Physical Director

S.No	Name	Course	Placement
4	Mahendran .G	MPed	Working as Physical Director
5	Prabhu .O	MPed	Working as Physical Education Teacher
6	Ragu. A	MPed	Working as Physical Education Teacher
7	Ramesh G	MPed	Working as Physical Education Teacher
8	Ranganathan .G	MPed	Working as Physical Education Teacher
9	Sandeep. R	MPed	Doing higher studies
10	Sankar Ganesh .K	MPed	Working as Physical Education Teacher
11	Saravanakumar.B	MPed	Doing higher studies
12	Selva nambij	MPed	Doing higher studies
13	Sivashamugam R	MPed	Doing higher studies
14	Thirumalai Gokulan R	MPed	Working as Physical Education Teacher
15	Veerasamy K V	MPed	Doing higher studies
16	Venkatesh M	MPed	Working as Physical Director
17	Vijay Anand V	MPed	Doing higher studies
18	Yadhendar. M	MPed	Working as Physical Education Teacher
19	Yuvaraj A	MPed	Doing higher studies
20	Anandan G	BPEd	Working as Physical Education Teacher
21	Arun C	BPEd	Working as Physical Education Teacher
22	Augustin Aaron G	BPEd	Working as Physical Education Teacher
23	Balamurugan V	BPEd	Working as Physical Education Teacher
24	Chithravel G	BPEd	Working as Physical Education Teacher
25	Dharmalingam R	BPEd	Working as Physical Education Teacher
26	Ilayaraja K	BPEd	Working as Physical Education Teacher
27	Josin.P.John	BPEd	Working as Physical Education Teacher
28	Krishnamoorthy N	BPEd	Working as Physical Education Teacher
29	Madasamy M	BPEd	Working as Physical Education Teacher
30	Manikandan C	BPEd	Working as Physical Education Teacher
31	Murugan V	BPEd	Working as Physical Education Teacher
32	Petchimuthu M	BPEd	Working as Physical Education Teacher
33	Ponnusamy C	BPEd	Working as Physical Education Teacher
34	Prabhu K	BPEd	Working as Physical Education Teacher
35	Prabu S	BPEd	Working as Physical Education Teacher

S.No	Name	Course	Placement
36	Santhakumar R	BPEd	Working as Physical Education Teacher
37	Satheesh Kumar C	BPEd	Working as Physical Education Teacher
38	SathivelK	BPEd	Working as Physical Education Teacher
39	Sathyaraj C	BPEd	Working as Physical Education Teacher
40	Senthilkumar J	BPEd	Working as Physical Education Teacher
41	Sivakumar V	BPEd	Working as Physical Education Teacher
42	Sivaraj L	BPEd	Working as Physical Education Teacher
43	Vairamuthu G	BPEd	Working as Physical Education Teacher
44	Venkatesh N	BPEd	Working as Physical Education Teacher
45	Vijayakumar K	BPEd	Working as Physical Education Teacher
46	Ajithkumar M	DPEd	Working as Physical Education Teacher
47	Amaravathi S	DPEd	Working as Physical Education Teacher
48	Ambikapathi D	DPEd	Working as Physical Education Teacher
49	Arockia Sahayaraj G	DPEd	Working as Physical Education Teacher
50	Arul Martin .J	DPEd	Doing higher studies
51	Azharudeen. S	DPEd	Working as Physical Education Teacher
52	Balaguru .S	DPEd	Working as Physical Education Teacher
53	Balaji V	DPEd	Working as Physical Education Teacher
54	Balakrishnan N.C	DPEd	Working as Physical Education Teacher
55	Chinnathambi S	DPEd	Working as Physical Education Teacher
56	Eswaran A	DPEd	Doing higher studies
57	Gobinath B	DPEd	Working as Physical Education Teacher
58	John Paul A	DPEd	Working as Physical Education Teacher
59	John Raghu raj S	DPEd	Working as Physical Education Teacher
60	Karthikeyan P	DPEd	Working as Physical Education Teacher
62	Kirubaraj D	DPEd	Working as Physical Education Teacher
63	Manikandan M	DPEd	Working as Physical Education Teacher
64	Maduraiveeran M	DPEd	Working as Physical Education Teacher
65	Mohanraj J	DPEd	Working as Physical Education Teacher
66	Murugesan R	DPEd	Working as Physical Education Teacher
67	Muruganantham R	DPEd	Working as Physical Education Teacher
68	Muthiah M	DPEd	Working as Physical Education Teacher

S.No	Name	Course	Placement
69	Muthukumar .P	DPEd	Working as Physical Education Teacher
70	Pachiappan .S	DPEd	Working as Physical Education Teacher
71	Perumal S	DPEd	Working as Physical Education Teacher
72	Prabhakaran B	DPEd	Working as Physical Education Teacher
73	Prakash M	DPEd	Working as Physical Education Teacher
74	Prakash P	DPEd	Working as Physical Education Teacher
75	Raja .R	DPEd	Working as Physical Education Teacher
76	Rajaprakash M	DPEd	Working as Physical Education Teacher
77	Ramkumar N	DPEd	Working as Physical Education Teacher
78	Santhosh R	DPEd	Working as Physical Education Teacher
79	Saravanakumar N	DPEd	Working as Physical Education Teacher
80	Sellappa R	DPEd	Working as Physical Education Teacher
81	Senthamizhselvan M	DPEd	Working as Physical Education Teacher
82	Sundarraaj A	DPEd	Working as Physical Education Teacher
83	Suresh C	DPEd	Working as Physical Education Teacher
84	Thanigaimalai G	DPEd	Working as Physical Education Teacher
85	Vairamuthu G	DPEd	Working as Physical Education Teacher
86	Veerumuthu M	DPEd	Doing higher studies
86	Vijayarahavan B	DPEd	Doing higher studies
87	Vinothkumar P	DPEd	Working as Physical Education Teacher
88	Vinothkumar R	DPEd	Working as Physical Education Teacher

## 2.38. Recent Achievements

### 2.38.1. Belur Main Campus: School of Mathematical Sciences—Department of Mathematics

Dr Kingshook Biswas, a faculty of the Mathematics Department, has been elected Junior Associate of the Indian Academy of Sciences in 2009.

### 2.38.2. Narendrapur Faculty Centre

Dr. Md. Nasim Ali, Lecturer, has been awarded a gold medal for best oral presentation of his research paper in National Conference 2009 on “Plant Sciences: Diversity, Products and Environmental Planning” held on 11th & 12th October, 2009 at the Department of Botany, Marwari College, Ranchi organized by Advances in Plant Sciences of India (APSI).

### **2.38.3. Coimbatore Faculty Centre**

#### **2.38.3.1. Faculty of 'Disability Management and Special Education'**

» Vivekananda National Awards for Excellence presented: As part of the Platinum Jubilee Concluding Celebrations of the Ramakrishna Mission Vidyalaya, Coimbatore 16 eminent personalities working in various fields were awarded the Vivekananda National Award for Excellence, during 31 January – 5 February 2006. Dr. M.N.G. Mani, former Director, IHRDC and ex-Dean of the Faculty of Disability Management and Special Education, Ramakrishna Mission Vivekananda Educational and Research Institute was also one of the recipients of the award.

» Efforts of IHRDC lauded: The District Administration, Coimbatore lauded the efforts of the International Human Resource Development Centre for the Disabled (IHRDC) in implementing the Swarnajayanthi Gram Swarojgar Yojana (SGSY) scheme for persons with disabilities in Coimbatore district. On August 15, the District Collector Sri Kosalaraman presented the award for excellence to IHRDC which was received by Swami Vishveshananda, the then Secretary of IHRDC.

» Faculty of Disability Management and Special Education: The faculty received the state award for the best performance in implementing special education for the disabled under the 'Education for All' (SSA) scheme for the year 2006-07. The award was presented at a function held in Chennai, on the occasion of World Disability Day on 3 December 2007, by Hon'ble Minister MRRK Panneerselvam, Minister for Health and Family Welfare, Tamil Nadu, in the presence of Hon'ble Minister Poongodi (Minister for Social Welfare, Tamil Nadu).

» Honours: The State Government of Tamil Nadu has selected the institute as the best NGO twice for its effective implementation of inclusive education of children with disability. The first gold medal and a certificate of appreciation were presented by Sm. P. Vijayalakshmi Palanisamy, Minister for Social Welfare, on behalf of the State Government, on 3 December 2003. At a similar function held on 3 December 2007, Sri Panneerselvam, Minister for Health and Family Welfare and Sm. Poongodi, Minister for Social Welfare, Tamil Nadu, presented the award.

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

##### **Recent achievements, Awards:**

»

» SAI Study Centre: The expertise of the University's faculty in Special Olympics was recognized by the Sports Authority of India (SAI) by granting permission to conduct certificate course in Special Olympics for trainers sponsored by the SAI. The Special Olympics Bharat, an accredited unit of Special Olympics International, has signed a MoU in this regard empowering the University to nominate its employees/volunteers for the SAI sponsorship.

» National Trainers: The Special Olympics Asia Pacific is conducting a National Trainer accreditation programme for graduates of PG Diploma/Diploma from the University. So far, about 40 trainers have been certified as National Trainers by the Special Olympics Asia Pacific.

» Inclusion of Adapted Physical Education in Physical Education in Teacher Trainers' Syllabus: For the first time in India the University's faculty had the distinction of including a unique school teaching exercise for students of physical education involving training normal and special children in unified mode. The programme known as Unified Play Day (UPD) was never tried in our country before and the first attempt was made

by the University under its Faculty of 'General & Adapted Physical Education and Yoga'. Under the UPD program 137 Intellectually Challenged children (85 boys and 52 girls) and 137 normal children (86 boys and 51 girls) studying in around 80 schools under the Sarva Siksha Abhiyan schools in 10 blocks of Coimbatore district were trained for 15 days by student trainers of our faculty at their school premises. Finally on a pre-defined day, the Unified Play Festival Day was conducted, with these intellectually challenged children along with 184 parents and 68 teachers and 20 special educators participating in a synchronized demonstration of their learnt activities at the faculty campus. The children and invitees were also exposed to music therapy, play therapy, physiotherapy, psychotherapy and kolam therapy. This has become an annual feature of the University's academic calendar and this unique feature has aroused great enthusiasm among the teachers and parents of the challenged children.

» BOCCE: The University faculty conducts national/state level sports events for disabled persons to promote physical activity, wellness and to provide exposure to teacher trainers regarding adapted physical education. The National Camp-cum-Tournament in Bocce game for Intellectually Disabled (ID) people was conducted by FGAPeDY. 24 teams from ten states viz, Chattisgarh, Delhi, Gujarat, Madhya Pradesh, Maharashtra, Karnataka, Kerala, Tamilnadu, Puddicherry, Uttarapradesh participated. A total of 296 athletes, escorts and coaches registered themselves at the venue. 110 student volunteers from the sister institutions of Ramakrishna Mission Vidyalaya, Coimbatore, acted as officials. Seven officials from Special Olympics (Bharath) also attended the Camp.

» Boxing Nationals: The University faculty jointly organized 42nd youth National Boxing Championship for the year 2009 with Tamil Nadu State Boxing Association under the aegis of Indian Boxing Federation from 2nd June to 7th June 2009. All over India from 33 boxing units and 500 boxers, coaches, managers and officials participated. The boxing competitions was held in 11 weight categories such as, less than 48 kgs (Light Fly), 51 kgs (Fly), 54kgs (Bantam), 57kgs (Feather), 60kgs (Light), 64 kg (Light Welter), 69kgs (Welter), 75kgs (Middle), 81 kgs (Light Heavy), 91 kgs (Heavy) and 91+kgs (Super Heavy). The Overall Championship was won by Service Sports Control Board (SSCB).

» Tamil Nadu Inter University Football Tournament: The University faculty organized Tamil Nadu Inter University Football Tournament on 24th and 25th November 2007. The University finished 3rd in the tournament.

» All India & South Zone Inter University Football Tournaments: The University has signed a MoU with the Bharatiar University to organize the forthcoming All India Inter University & South Zone Inter University Football Tournament of the Association of Indian Universities. In this tournament around 27 universities are expected to participate.

#### **2.38.4. Recent Achievements in General**

##### **VIVEKDISHA—Space and ICT Based Development Project under ISRO**

Indian Space Research Organization (ISRO) launched a unique space and ICT-based development project called ISRO-VRC project under which Village Resource Centres (VRCs) are set up for the benefit of remote rural masses of the country. ISRO has chosen Ramakrishna Mission Vivekananda University for this project and has supplied the technical know-how and equipment to set up 14 VRCs under what the University calls the VIVEKDISHA—9 VRCs in West Bengal and 5 in Jharkhand. Dr Madhavan Nair, Chairman, ISRO, inaugurated this VIVEKDISHA ISRO-RKMVRU VRC Project on 4 July 2008 at the Belur Main Campus. The programmes taken up by the University under VIVEKDISHA are the following: Tele-education (including participative education, literacy through formal and non-formal methods, skill development, communicative English, value education, Indian cultural and spiritual heritage, computer education and training, teacher education, imparting

indigenous knowledge, etc), Tele-medicine (health counselling, treatment in simple cases, health and hygiene awareness, etc), Agricultural Counselling, Awareness regarding e-governance, Integrated Rural Development (including literary spread, crop advisory and disease forecasting services by experts, vocational training for sustaining development, technology transfer for increased crop production, low cost irrigation techniques, watershed management, organic farming practices, herbal medicine and medicinal plant cultivation, composting methods, etc). The VRCs are located in remote rural areas as well as in semi-urban areas from where there is an extensive outreach to hundreds of villages. The Expert Centre of the VIVEKDISHA Project is located at the University's Belur Main Campus. During the cyclone Alia distress in West Bengal in May-June 2009, nearly 500 patients were treated in remote rural areas by the residential monk-doctor at Belur Math and necessary medicines were distributed to them free of cost.

### **Rural Technology Action Group (RuTAG) Project**

This is an interesting and unique research project taken up by the University under its Faculty of 'Integrated Rural Development and Management (IRDM)' at its Narendrapur 'Off-campus Centre'. The vision, objectives and achievements so far in this project are delineated below.

Swami Vivekananda said that "to find out new means of food production should be our first and foremost goal."

To actualize the above mentioned goal set by Swami Vivekananda, the University has identified and developed a package of practices for 'Sustainable Agriculture with Low Cost Technologies'. Under the Rural Technology Action Group for Eastern India (RuTAG-EI) project sponsored by the Ministry of Science and Technology, Government of India, the university started research works to upgrade and standarize some of the identified liquid manure cum bioinoculums with the following objectives. Achievements of the project after one year are given below in brief.

Objectives	Achievements
i) Proportion of different ingredients, dose, method and time of application of different low cost inputs like Panchagavya, Sanjivani, sashyagavya and Kunapajala are to be standardized for recommendations.	Proportion, dose, method and time of application of Panchagavya and Sanjivani have been standardized on four crops viz green gram, black gram, chilli and mustard. For Panchagavya: Cowdung: Cow urine: milk: curd: ghee in 5: 3: 2: 2: 1 ratio. Dose: 3% of water, 4 times spray: twice at vegetative stage, once before flowering, and once before pod initiation. For Sanjivani: Cow dung: cow urine: water in 1:1:10 ratio. Dose: 10% of water, 4 times spray: twice at vegetative stage, once before flowering, and once before pod initiation.

Objectives	Achievements
ii) Effect of Panchagavya and Sanjivani on morphology of the plants, yield and quality of produce needs to be documented. This experiment will be conducted on crops grown in two seasons of a year.	<p>i) In case of greengram, blackgram, mustard and chili the most of the yield attributing characters were significantly higher in crops with Panchagavya spray than the control.</p> <p>ii) Yields were also significantly higher in the treatment plots.</p> <p>iii) Biochemical properties with respect to antioxidant content of blackgram (with panchagavya spray) was significantly higher than grown under control.</p> <p>iv) As per project proposal we are supposed to conduct our experiment on two crops but we have done on four crops grown in three seasons of a year.</p>
iii) Effect of organic farming on soil health	Soil health with respect to organic carbon content, phosphorus, Potash and microbial population was enhanced with one year cultivation of organic practices.
iv) Bio-chemical composition and best period of fermentation of Panchagavya and Sanjivani.	Microbial population becomes the maximum during 8th and 10th days in all the three preparations, namely, Sanjivani, its enriched product (Sanjivani + vegetable wastes) and Panchagavya.
v) Seasonal variation in microbial population	Microbial population of the organic preparations is found to be less in winter than summer. But the best period of fermentation is 8 to 10 days in both the cases.
vi) Increase in shelf life of Panchagavya and Sanjivani	Carrier based materials showed increased shelf life of Sanjivani
vii) Economic analysis for one acre of land of a small farmer.	<p>Panchagavya: Addl. return of about Rs 6000 from addl expenditure of only Rs 360.</p> <p>Sanjivani: Addl. return of Rs 960 with almost zero/negligible addl expenditure.</p>

### Research Programme:

A Brief Report of the Achievements vis-à-vis the Objectives under the Sustainable Agriculture with Low Cost Technologies Project during July 2008 to March 2009

The overall conclusion emerging from the above is that the effects of two low cost organic inputs to increase productivity and profitability of crops in sustainable agriculture are found to be significant. Under the Phase II of the Project from June 2009 to March 2010, the University proposes to demonstrate the positive effects of Panchagavya (fermented five products of the cow, namely, cow dung, cow's urine, milk, curd and ghee) and Sanjivani (fermented mixture of cow dung and cow's urine) on paddy (kharif season) and mustard (rabi) crops

with respect to morphology of the plants, yield and quality of the produce. This would greatly motivate the farmers to adopt these low cost technologies for sustainable agriculture.

### **Extension Programme:**

Technologies upgraded and standardized during first phase of the RuTAG-EI have been demonstrated in the field of three selected farmers of a village in South 24-Parganas in West Bengal in kharif-2009 to transfer the same among other farmers. The demonstrations will be continued during Rabi season of 2009 also and afterwards in other villages also.

Swami Vivekananda said that 'each village of India should have a centre, one man of education, to recreate the village...'. According to him, "our mission is for the destitute, the poor, and the illiterate peasantry and labouring classes, and if, after everything has been done for the first, there is spare time, then only for the gentry", for which Swami Vivekananda exhorted: "Organize and found societies and go to work—that is the only way."

This University in the hallowed name of Swami Vivekananda is striving to actualize his vision.

### **Full Membership of Global University Network for Innovation (GUNI)**

Ramakrishna Mission Vivekananda University has been awarded the full membership of the Global University Network for Innovation (GUNI).

The Global University Network for Innovation (GUNI) is a global network made up of over one hundred members from the five continents. These members include UNESCO higher education chairs, educational establishments and research institutes that are committed to innovation, quality and social commitment within higher education. GUNI was set up in 1999 by UNESCO, the United Nations University (UNU) and the Technical University of Catalonia (UPC), where the GUNI Secretariat is based.

GUNI's mission is to contribute to the strengthening of higher education throughout the world by advocating the application of the decisions taken at UNESCO's World Conference on Higher Education (WCHE), which was held in Paris in 1998. Through its lines of action, GUNI promotes and reflects on innovation, universities' social commitment and how to improve the quality of higher education.

The main objectives of GUNI are as follows.

- » To contribute to the application of the WCHE's Declaration and Framework for Priority Action, whose aim is to narrow the differences in higher education between developed and developing countries.
- » To act as a UNESCO/UNU international forum for discussing the challenges that higher education faces.
- » To contribute to the reform and renewal of higher education policies across the world.
- » To contribute to research on higher education and to ensure that progress is made, particularly in developing countries.
- » To favour cooperation between higher education institutions and society.

GUNI is divided into five regional networks that represent Asia and the Pacific, Latin America and the Caribbean, Sub-Saharan Africa, Arab nations, Europe and the United States. It has an Executive Committee made up of representatives of the founding institutions, UNESCO, the UNU and the UPC, whose Rector is the Network's president. The presidents of each of the regional networks are also members of the Executive Committee. There is likewise a Plenary Council, which comprises all of the Network's members. An annual meeting is held for the Council to be informed of and discuss results and the following year's work plan.

GUNI works on several projects exposed below:

### **Report Higher Education in the World**

Higher Education in the World is published as part of the GUNI Series on the Social Commitment of Universities. The Report is the result of an overall analysis of higher education in the world. A specific subject is chosen for each edition. The Report reflects on the key issues and challenges facing higher education and its institutions in the twenty-first century. A Delphi survey is conducted for the Report to gauge the opinion of over 100 experts, politicians, civil society members and professionals on the way they view the challenges facing higher education and how to overcome them. Statistics, analytic maps and detailed bibliography round off the publication.

### **International Barcelona Conference on Higher Education**

The Conference is an international forum for debate on the challenges facing higher education in the twenty-first century. The Conference is held every year in Barcelona and is attended by distinguished experts, scholars, university managers, administrators and politicians from all over the world, who discuss innovative proposals and the results of the latest research. Every year, GUNI presents the World Report on Higher Education within the framework of the International Barcelona Conference on Higher Education.

### **Universities and Social Commitment Observatory**

The Observatory detects and disseminates good practices in its endeavor to serve as a meeting point between universities. Its purpose is to facilitate the transfer of good practices and to bring about change within higher education institutions. In order to disseminate practices among institutions and broaden their role in the construction of harmonious societies, the Observatory also acts as a resource centre, using the common goal of social commitment as its underlying premise.

### **Research Projects**

GUNI undertakes research projects on higher education for public and private not-for-profit institutions. To do so, it has a group of researchers who apply GUNI's mission to practical realities.

The Vice Chancellor, Swami Atmapriyananda, was invited to write an article in Higher Education in the World 2008: New challenges, changing roles: Steering a course for human and social development, a GUNI publication. His article on "Ethics and Values in Learning and Teaching: Challenges for the Human and Social Development Role of Higher Education" was published in this volume.

### **UNESCO Chair for 'Inclusive Education—Adapted Physical Education and Yoga'**

UNESCO has shown interest in the creation of a Chair in the area of 'Inclusive Education—Adapted Physical Education and Yoga', which is a unique area of work in the University. There is no higher education institution in Asia with a UNESCO Chair in the area of 'Inclusive Education' and hence the keenness on the part of UNESCO to create one in the University. When the Vice Chancellor visited Paris in 2008, the Director of Higher Education at UNESCO headquarters evinced keen interest in the above project. The University has submitted all the necessary papers to UNESCO in this regard and is awaiting the endorsement of the Ministry of Human Resource Development, Government of India to enable UNESCO to take further action in the matter. If this Chair is created in the University, it would not only enormously increase the visibility of the University, but would also facilitate networking with like-minded higher education institutions which have a strong social commitment mission.

### Publications by the University:

The deemed university began publishing books in its name right from the beginning. The first publication to come out on 4 July 2006 was the Year Book 2005-06, giving in detail the concept and vision of the university, its achievements and activities during the year 2005-06. On the same occasion, two books were published: Selfless Work: Its Basis, Methods and Fulfilment by Swami Bhajananandaji and the Bengali translation of the same work, Nihswartha Karma: Bhitti, Paddhati o Siddhi. On 4 July 2008, a combined Year Book, 2006-07 & 2007-08 combined was published giving in detail the achievements and activities of the University during the two years 2006-08. On 4 July 2009, the University published another important book: Human Development and Its Quantification: A Holistic Approach, by Prof. Shoutir Kishore Chatterjee. The University hopes to not only steadily keep publishing books every year, but also publish more than one book of original and innovative nature of research variety.

### Special Lecture Series by the monks of the University for the benefit of the students, faculty, staff members and their families, at Indian Institute of Technology (IIT), Kharagpur

On invitation by the authorities, especially the Director, of IIT Kharagpur, the monks of the University have initiated a lecture series at IIT, Kharagpur, mainly for the benefit of the IIT faculty, staff, their families and students. Alarmed at the increasing incidents of stress-related mental disorders, depression cases etc, the IIT Director thought it essential to have some regular discourses followed by counselling sessions by the monks of the Deemed University. The lecture series is on the general theme, Fundamentals of Indian Spiritual Heritage, and the first module in the series on Gita and Yoga was offered for 4 months from 26 August to 18 December 2009, once a week on every Wednesday, nearly 2 hours each day. The interactive session after the lecture and the informal counselling even thereafter have proved to be of immense benefit to the audience. The Director of IIT Kharagpur has renewed this effort for the next module too, the series due to start from January 2010.

### Facilities for faculty and staff & 36. Facilities for Students

The following is a typical list of the staff facilities in any of the Faculty Centres:

#### Facilities for faculty and staff

The following facilities are provided for the staff

- i. Meditation/Prayer Hall
- ii. Yoga and Fitness centre (available at Coimbatore Centre only)
- iii. Gymnasium (available at Coimbatore Centre only)
- iv. Contributory Provident Fund
- v. Gratuity
- vi. Medical Insurance
- vii. Life Insurance Coverage for willing staff members
- viii. Staff quarters (available at Narendrapur and Coimbatore Centres)
- ix. Provision for accommodating for willing staff members in hostels
- x. Cooperative Society (where commodities can be purchased, goods and cash loan can be availed ) (available at Coimbatore Centre)
- xi. Central Library with a rich collection of books

- xii. Plenty of greenery and open space for relaxation as well as discussion
- xiii. Indoor stadium (available at Coimbatore Centre only)
- xiv. Auditorium
- xv. Weekly Spiritual classes (satsang) for those willing
- xvi. Spiritual Retreat (Antharyoga) (at Coimbatore Centre)
- xvii. Encouragement to pursue higher education
- xviii. Round the clock security
- xix. Book stall
- xx. Financial Asst. for the educational children of staff members (deserving cases)
- xxi. Free distribution of clothes for deepavali (deserving cases)
- xxii. Telephone Booth, Branch of State Bank of India and Post Office within the campus.
- xxiii. Pure drinking water and green environment.

While the above chart gives a general idea, more specifically, the facilities provided in the individual 'Off-campus' Centres are given below:

### **At Narendrapur Faculty Centre** **Facilities for Faculty and Staff**

- Residential complex of Ramakrishna Mission Ashrama, Narendrapur (Acharya Pally) for staff members and their family
- Salary of staff members according to UGC norms
- Financial and other support for the staffs to take part in national and international seminars/workshops/symposium etc.
- Provision for modern electronic educational gadgets like Laptop, Digital Camera, LCD projector etc.
- Access to high speed broadband internet connection
- Free primary healthcare facilities within the campus
- Health insurance facility for the staff and their family

### **Facilities for students**

- Classroom facility: Computer for individual classrooms; access to high speed broadband internet connection; A-V instructional devices like OHP, LCD Projector; occasional screening of documentary films on developmental issues
- Laboratory: Tissue Culture laboratory, Biofertilizer laboratory, Biopesticides production unit, Biocontrol Laboratory; Soil testing laboratory;
- Field practicals:
  - » Access to agricultural (organic farming) and dairy farms for practical
  - » Access to cultivate in Poly house
  - » Mushroom: Production of both spawn and mushroom as their practical
  - » Medicinal garden: For practical on medicinal and aromatic plants
  - » Exposure to an Apiary unit
  - » Vermicompost unit: Exposure to Solid waste management
- Village and Industrial placement: Students are provided with food and lodging facility during their Village and industrial placement including different centres of the RKM-LSP (an Ashrama Unit) during field visits.
- Library: Access to 8478 books, 13 Journals and 22 Periodicals, 3 Newspapers, apart from occasional lendings from British Council Library, Kolkata and American Library, Kolkata.

- Free primary healthcare facilities within the campus

### **At Ranchi Faculty Centre**

#### **Facilities for faculty and staff**

- Salary of staff members according to UGC norms.
- Access to high speed broadband internet connection.
- Free primary healthcare facilities within the campus.
- Health insurance facility for the staff and their family.

#### **Facilities for students**

- Classroom facility: A-V instructional devices like OHP, LCD Projector; occasional screening of documentary films on developmental issues.
- Access to Broad-band Internet connectivity.
- Laboratory: Tissue Culture laboratory, Biofertilizer laboratory, Soil testing laboratory, Bio-control laboratory
- Field practicals:
  - » Access to agricultural (organic farming) and dairy farms for practical
  - » Propagation under Shed Net
  - » Mushroom: Production of both spawns and mushroom as their practical.
  - » Medicinal garden: For practical on medicinal and aromatic plants.
  - » Apiary unit: For practical on beekeeping
  - » Vermicompost unit: Exposure and practical classes to vermicompost production.
- Village and Industrial placement: Students are provided with food and lodging facility during their Village placement including different adopted villages of RKM Ashrama, Ranchi.
- Library: Access to nearly 25000 books, 100 Journals and periodicals and newspapers.
- Free primary healthcare facilities within the campus.

### **Co-curricular and extra-curricular activities:**

#### **At Ranchi Faculty Centre**

- Participation in different cultural functions within and outside the Ashrama
- Active participation in the Annual Celebration of the Ashrama and hosting exhibition stall on broader issues related to rural development for generating mass awareness in Kisan Mela.
- Participation in Blood Donation Camp for Thalasemia patients.

#### **At Narendrapur Faculty Centre**

- Participation in different cultural functions within and outside the Ashrama
- Participation in different academic/professional competitions (e.g. I Create Foundation Business Plan Competition)
- Active participation in the Annual Celebration of the Ashrama and hosting exhibition on broader issues related to rural development for generating mass awareness
- Participation in General Exhibition where students help in preparation of food and distribution of prasad to the 'poorest of the poor' section of society.
- Participation in Blood Donation Camp for Thalasemia patients.
- Celebration of World Peace Day (21st September) and World Environment Day (5th June) etc.

**At Coimbatore Faculty Centre—Faculty of ‘Disability Management and Special Education’:  
Curricular and co-curricular activities conducted since 2005-06**

- Graduation Ceremony conducted: The Graduation Ceremony for the outgoing students of the post-matric institutions of the Ramakrishna Mission Vidyalaya was conducted at the GKD Auditorium on 29.03.05. From the IHRDC, 19 students undergoing diploma level courses in Community Based Rehabilitation, Sign Language Interpretation and Computer Applications for the Blind participated in the event. Apart from the monastics of the Ramakrishna Order, Dr. Nalla G. Palaniswamy, Chairman, Kovai Medical Centre and Hospital and Dr. S.N. Subramanian, Secretary, SNS Institutions, Coimbatore attended the ceremony and blessed the outgoing students.
- Kalaimagal Vizha Celebrations: The Kalaimagal Vizha celebrations of the Ramakrishna Mission Vidyalaya were celebrated from 6-8 October. Three students of the IHRDC performed Bharata Natyam in the cultural programme on 8 October.

**2006**

- Inauguration of Special Education courses: The formal inauguration of the B. Ed. & M. Ed. Special education courses of the Vivekananda Deemed University was made at IHRDC on 13 August 2006. The Pro-chancellor, The Vice-Chancellor, The Registrar and senior monks from different centres of the Ramakrishna Math and Mission participated in the function. The inaugural session for the B. Ed. & M. Ed. Students was given by Dr. Mani, Dean of the Faculty of Disability Management and Special Education.
- Students excel in Competitions: Two students of the Centre won laurels in the competitions conducted by the Vidyalaya on account of the Gurupuja Celebrations. Ms. Karen Hephzibah, Diploma in Sign Language Interpretation student secured the First prize in the English Essay writing and Ms. P. Vanitha, Diploma in Special Education student secured Second Prize in the Tamil Essay writing competition. The prizes for both the students were given in the Gurupuja day celebrations on January 1.
- National meet in Athletics conducted: The third National Junior Championship in Athletics for the Disabled was conducted in the Maruthi College of Physical Education grounds, during January 31 to February 2., which was collaborated by three organizations namely IHRDC, Paralympics Committee of India – Bangalore and the Maruthi College of Physical Education. All the staff and students of the Centre contributed at various levels towards the conduct of the athletic meet.
- The event was sponsored by the CBM – SARO (S), Bangalore.

**2007**

- Faculty of Disability Management and Special Education: Gurupuja was celebrated in the Vidyalaya with the usual lively festivities. Staff and students of the faculty attended the annual event held on 7 January 2007.
- Independence Day was observed on 15 August 2007 by the staff and students. Dr. (Mrs.) M. Chandramani hoisted the National Flag and delivered the Independence Day Address. The event was presided over by Swami Sahanananda. Students of the University presented a cultural programme on the occasion.
- A special programme was organized on 1 September 2007 to mark the birth anniversary of Madam Maria Montessori.
- The second convocation of the University was held on 8 September 2007 at Venkatakrisnan Indoor Stadium. Dr. R. Chidambaram, Principal Scientific Advisor, Government of India, delivered the convocation address. Swami Prabhananda, General Secretary, Ramakrishna Math and Ramakrishna Mission, delivered the Chancellor's address, and presented the degree certificates and medals to rank holders. The Vice-Chancellor Swami Atmapriyananda, Administrative Head and Secretary Swami Atmaramananda and Registrar Swami Sarvapriyananda participated in the function. Degrees were awarded to 73 students. The function was attended by Swamijis from some centres of Ramakrishna Math and Mission, parents, guard-

ians, former students, heads of Vidyalaya institutions, staff, students, and well-wishers.

- On 29 September 2007, to mark the World Day of the Deaf and International Day of Sign Language, the students organized a special programme which included a silent play and competitions for the hearing impaired children. Swami Tatprabhananda delivered a special address on the occasion. Honorable Dean, staff, students, special children, parents and members of the Coimbatore Deaf Association attended the function.
- To mark the 'White Cane Day', students organized a special programme on 15 October 2007.
- The second convocation of the University was held on 8 September 2007 at Venkatakrishnan Indoor Stadium. Dr. R. Chidambaram, Principal Scientific Advisor, Government of India, delivered the convocation address. Swami Prabhanandaji Maharaj delivered the Chancellor's address and presented the degree certificates and medals to rank holders. The Vice-Chancellor Swami Atmapriyanandaji Maharaj, Administrative Head Swami Atmaramanandaji Maharaj and Registrar Swami Sarvapriyanandaji Maharaj participated in the function. Degrees were awarded to 73 students. The function was attended by Swamiji's from various centres of Ramakrishna Math and Ramakrishna Mission, parents, guardians, past students, heads, staff, students and well wishers.
- The World Disabled Day was celebrated at FDMSE on 3 December 2007. Drivers and conductors of buses plying on the highway in front of the campus were greeted and provided sweets for being disabled-friendly. Sri R. Venkatachalam, Deputy Manager, Sri S. Manivannan, Branch Manager, State Transport Corporation, Coimbatore, and Sri P. Natarajan, Deputy Manager, State Transport Corporation, Mettupalayam, participated in this function and greeted the drivers and conductors. Swami Harivratana and Sri P.R.G. Arunkumar, President, Perianaickenpalayam Town Panchayat flagged off the 'Disability Awareness Rally.' Staff members and students of FDMSE, Polytechnic, ITI, parents and Special Educators participated in the rally. In the afternoon a public meeting was held at the GKD Auditorium in the campus.
- Sri S. Karamegam, Chief Educational Officer, Coimbatore was the Chief Guest. Dr. V. Sugumaran, Retd. Professor, Government Arts College, Coimbatore delivered the Special Address. Swami Nirmaleshananda presided. Students of the Vidyalaya and other educational institutions presented cultural programmes. The Swami gave away prizes and certificates to the students who took part in the various competitions.

### 2008

- The year began on an auspicious note with the customary celebration of the Kalpataru Day on 1 January 2008. It included the morning Arati, bhajans and a talk by Swami Harivratana on the significance of the Kalpataru Day. Staff and students of both the faculties, viz. Disability Management and Special Education (FDMSE), and General and Adapted Physical Education and Yoga (FGAPeY) attended the event.
- They also attended the Jayanti celebrations of Sri Ramakrishna, Holy Mother, and Swami Vivekananda. As in every year, the celebrations included bhajans by the students of the Vidyalaya and monastic members, followed by Homa.
- Gurupuja was celebrated on 6 January 2008 with the usual grandeur. Students participated in the flag hoisting and exhibition-inauguration functions.
- Students of the FGAPeY participated in the youth rally held on the National Youth Day, in commemoration of the 146th birthday of Swami Vivekananda. The event that was held on 12 January 2008 was organized by Vidyalaya's Maruthi College of Physical Education and held at Sri Saraswathi Vidyalaya Matriculation High School, Karamadai. Sri R. Porusappan, Secretary, Nanjaiah Lingammal Polytechnic College, Mettupalayam, flagged off this rally; around 500 students from 8 colleges participated.
- Republic Day was celebrated on 26 January 2008. Swami Tatprabhananda hoisted the national flag. Students of the faculties participated.
- The 10th and 11th Spiritual Retreats for the benefit of the staff of Vidyalaya including those of the facul-

ties of RKMVU, their family members, hostel students (Higher Secondary and above), and monastics were held on 21 February and 10 August 2008 at the GKD auditorium. The half-day programmes included prayer, bhajans, meditation and discourses by Swamis of the Vidyalaya.

- Five orthopaedically handicapped students were presented with special disabled-friendly scooters, each costing about Rs.50,000/-, at a function held on 21 July 2008 at the FDMSE, Ramakrishna Mission Vidyalaya. The beneficiaries were M. Saraswathy of the faculty, R. Senthilkumar of Polytechnic, R. Manikandan, R. Lakshmanan and M. Sasikumar of the College of Arts and Science.
- Around 540 first year students from Vidyalaya's Gandhi Teacher Training Institute, Institute of Agriculture and Rural Development, Industrial Training Institute, Polytechnic, and the Faculties of Ramakrishna Mission Vivekananda University participated in the Vidyarthi Homa conducted on 15 August 2008 at the indoor stadium.
- Swami Gautamanandaji Maharaj, President, Ramakrishna Math, Chennai, inaugurated the new extension centre of the Faculty of General and Adapted Physical Education and Yoga at Vivekananda College, Chennai, on 24 August 2008. Swami Atmaramananda and Swami Anuragananda of the Vidyalaya, along with Sri E. Amudhan, Lecturer, attended the inauguration.
- The Third Convocation of the Faculty of Disability Management and Special Education and the First Convocation of the Faculty of General and Adapted Physical Education and Yoga was held at the Venkatakrishnan Indoor Stadium on 30 September 2008. Revered Swami Prabhanandaji Maharaj, General Secretary, Ramakrishna Math and Mission, and Chancellor, RKMVU, presided over the function and awarded the degrees and diplomas to the graduating students. Dr. V. Jayaraman, Director, National Remote Sensing Centre, ISRO, Hyderabad, the Chief Guest for the function, delivered the Convocation Address on 'Knowledge Management – Space Technology Application for Reaching the Unreached'. Swami Atmapriyananda, the Vice Chancellor, and Swami Atmaramananda, Administrative Head and Secretary, participated in the function.
- Saraswathi Puja was celebrated at FDMSE on 7 Oct 2008. Swamiji and Brahmacharis, Staff and students attended.
- Kalaimagal Vizha was celebrated from 13 to 15 October 2008 at the indoor stadium. The programmes on the three days focused on literature, music, and drama, in that order. Renowned speaker and poet, Sri R. Gangai Manimaran, inspired the audience with his speech on the topic 'Annaiyin Arul' on 13 October 2008. Selvi S. Lavanya Sundararaman and party from Chennai gave a devotional music performance on 14 October 2008, which included compositions of Bharathiar, Papanasam Sivan and Periyasamy Thooran. On 15 October 2008, students from various institutions of the Vidyalaya enthralled the audience with an exciting cultural performance depicting Indian culture, tradition and folk arts. The three-hour presentation included dance, drama, and instrumental music by students of various institutions of the Vidyalaya. A mime show on eradicating dowry, and a dance performance by students of RKMVU, were some of the highlights. Swamis Satyaprabhananda, Harivratana and Sarvasahananda addressed the audience on the three days, respectively.
- The International Day of the Disabled was observed on 3 December 2008 at the GKD Auditorium. Sri P. Gnanadurai Michael, former South East Asia Regional Representative, was the Chief Guest. Swami Atmaramananda, Secretary and Administrative Head, Ramakrishna Mission Vidyalaya, presided. Dr. D. Pradeep, Psychiatrist, R.S. Puram, Coimbatore, and Thiru R. Srinivasan, Professor of English (Retd.), Government Arts College, Coimbatore, offered felicitations. Challenged students and faculty staff of Vidyalaya were honoured by presenting with mementoes to them. Early Identification and Intervention Centre for Children with Special Needs, Diagnostic Assessment and Guidance Centre, Adjustment Training Centre for Adult Disabled Persons, Coaching Centre for the Hearing Impaired, and BOCCE playground for mentally challenged children were inaugurated on this occasion. An exhibition on the education and reha-

bilitation of disabled was also arranged to create awareness among public. Dr. M.Chandramani, Honorary Dean, welcomed the gathering, and Thiru A. Dorairaj proposed the vote of thanks.

## **At Coimbatore Faculty Centre—Faculty of ‘General & Adapted Physical Education and Yoga’: Curricular and co-curricular held since 2007-08**

### **2007**

- Inauguration of Special Olympics courses:
- Faculty of General & Adapted Physical Education and Yoga: Gurupuja was celebrated in the Vidyalaya with the usual lively festivities. Staff and students of the faculty attended the annual event held on 7 January 2007.
- The second convocation of the University was held on 8 September 2007 at Venkatakrishnan Indoor Stadium. Dr.R.Chidambaram, Principal Scientific Advisor, Government of India, delivered the convocation address. Swami Prabhananda, General Secretary, Ramakrishna Math and Ramakrishna Mission, delivered the Chancellor’s address, and presented the degree certificates and medals to rank holders. The Vice-Chancellor Swami Atmapriyananda, Administrative Head and Secretary Swami Atmaramananda and Registrar Swami Sarvapriyananda participated in the function. Degrees were awarded to 73 students of FDMSE. The function was attended by Swamijiis from some centres of Ramakrishna Math and Mission, parents, guardians, former students, heads of Vidyalaya institutions, staff, students, and well-wishers.
- Tournaments Organized: A National Camp-cum-Tournament in BOCCE game for Intellectually Disabled (ID) people was conducted at the Vidyalaya to create awareness about the newly started Faculty of General & Adapted Physical education and Yoga. The event was widely covered by local press and three TV channels. Totally 24 teams from ten states viz, Chattisgarh, Delhi, Gujarat, Madhya Pradesh, Maharastra, Karnataka, Kerala, Tamilnadu, Puddicherry, Uttarapradesh participated. A total of 296 athletes, escorts and coaches registered themselves at the venue. 110 student volunteers from our sister institutions acted as officials. Seven officials from Special Olympics (Bharath) also attended the Camp. Srimati Vanita Mohan, Executive Director, PRICOL, who was the Chief Guest, took the guard of honour. Air Marshall, Denzil Keelar (Rtd.), Chairman, Special Olympics Bharath, came all the way from New Delhi and lighted the “Olympic Torch”.
- FGAPeDY organized Tamilnadu Inter University Football Tournament on 24th and 25th November 2007. Our University got III position in the tournament.
- Tournaments Participated: Our university Athletics and Football team participated in the All India Inter University Athletic Meet and South Zone Inter University Football Tournament held at Annamalai University at Chidambaram.
- Our University participated in the South Zone Inter University Handball tournament at Nagarjuna University, Guntur, Tamilnadu Inter University Ball Badminton tournament at SRM University Chennai, Tamilnadu Inter University Football Tournament organized by our faculty. Our University got III position in the tournament.
- Memorandum of Understanding: MOU will be signed between Ramakrishna Mission Vivekananda University, Special Olympics Asia Pacific and Special Olympics Bharat on the occasion. Swami Atmapriyanandaji, Vice chancellor of Ramakrishna Mission Vivekananda University, Professor Sudeep Bannerjee, Advisor Ministry of Human Resources, Mr. Troy W. Greison, Managing Director, Special Olympics Asia Pacific, Air Marshal Denzil Joesph Keelor (Rtd), Chairman Special Olympics Bharath was participated.
- Camp: Annual Leadership Training Camp was conducted at Vellingiri Hills, Poondi from 2nd to 9th October 2007. 28 B.P.Ed students and 3 staff members attended the camp. The boys were exposed to group living in natural environment. The camp activities included trekking in the forest, community singing, camp fire program, kit inspection, collection of articles, knots & lashes, badminton racket gutting, progressive party games, vocabulary, community work etc., The camp was organized in collaboration with Maruthi

College of Physical Education.

- Scout masters camp was conducted for 43 students of diploma in physical education.
- Faculty Improvement Programme: FGAPeDY staff members Mr. M. Ganeshkumar and Mr. R. Giridharan were underwent Post Graduate Diploma Course in Special Olympics.
- FGAPeDY staffs namely Sri R. Giridharan and Sri. M. Suresh Kumar attended a 3 days workshop on Statistical Application in Research Methods conducted by “Everonn Limited – Coimbatore”.
- Cultural Competition: Faculty students participated in the intercollegiate dance competitions organized by Maruthi College of Physical Education and got III place.
- Association of Indian Universities: Association of Indian Universities has written to the Vice Chancellor, of Ramakrishna Mission Vivekananda University that our university can participate in the South Zone, & All Inter University sports competition from this year.
- Inspection: NCTE (National Council for Teacher Education) Commission Inspection took place on the 27th & 28th September 2007, in connection with granting recognition to start B.P.Ed and M.P.Ed courses. Commission members Dr. Pradap Reddy and Dr. H. D. Guru Basappa inspected the faculty.
- International Events: Faculty Dean Dr. M. S. Nagarajan attended Special Olympics World Summer Games at Shanghai, China as chief Technical Delegate for cricket. His poster presentation on the PG Diploma in Special Olympics offered by Ramakrishna Mission Vivekananda University received good response from foreign university delegates.
- Talent Identification in Sports: FGAPeDY 61 students were engaged in spotting Sporting Talents of boys below the age of 12 at various schools in Coimbatore District. Nearly 6000 students were screened in nine days from 03.10.07 to 12.10.07. This program was organized in collaboration with Maruthi College of Physical Education.

### 2008

- The year began on an auspicious note with the customary celebration of the Kalpataru Day on 1 January 2008. It included the morning Arati, bhajans and a talk by Swami Harivratanaanda on the significance of the Kalpataru Day. Staff and students of both the faculties, viz. General and Adapted Physical Education and Yoga (FGAPeDY) and Disability Management and Special Education (FDMSE) attended the event.
- They also attended the Jayanti celebrations of Sri Ramakrishna, Holy Mother, and Swami Vivekananda. As in every year, the celebrations included bhajans by the students of the Vidyalaya and monastic members, followed by Homa.
- Gurupuja was celebrated on 6 January 2008 with the usual grandeur. Students participated in the flag hoisting and exhibition-inauguration functions.
- Students of the FGAPeDY participated in the youth rally held on the National Youth Day, in commemoration of the 146th birthday of Swami Vivekananda. The event that was held on 12 January 2008 was organized by Vidyalaya's Maruthi College of Physical Education and held at Sri Saraswathi Vidyalaya Matriculation High School, Karamadai. Sri R. Porusappan, Secretary, Nanjaiah Lingammal Polytechnic College, Mettupalayam, flagged off this rally; around 500 students from 8 colleges participated.
- Republic Day was celebrated on 26 January 2008. Swami Atmaramananda hoisted the national flag. Students of the faculties participated.
- The 10th and 11th Spiritual Retreats for the benefit of the staff of Vidyalaya including those of the faculties of RKMVU, their family members, hostel students (Higher Secondary and above), and monastics were held on 21 February and 10 August 2008 at the GKD auditorium. The half-day programmes included prayer, bhajans, meditation and discourses by Swamis of the Vidyalaya.
- Around 540 first year students from Vidyalaya's Gandhi Teacher Training Institute, Institute of Agriculture and Rural Development, Industrial Training Institute, Polytechnic, and the Faculties of Ramakrishna Mission

Vivekananda University participated in the Vidyarthi Homa conducted on 15 August 2008 at the indoor stadium.

- Swami Gautamanandaji Maharaj, President, Ramakrishna Math, Chennai, inaugurated the new extension centre of the Faculty of General and Adapted Physical Education and Yoga at Vivekananda College, Chennai, on 24 August 2008. Swami Atmaramananda and Swami Anuragananda of the Vidyalaya, along with Sri E. Amudhan, Lecturer, attended the inauguration.
- The Third Convocation of the Faculty of Disability Management and Special Education and the First Convocation of the Faculty of General and Adapted Physical Education and Yoga was held at the Venkatakrishnan Indoor Stadium on 30 September 2008. Revered Swami Prabhanandaji Maharaj, General Secretary, Ramakrishna Math and Mission, and Chancellor, RKMVU, presided over the function and awarded the degrees and diplomas to the graduating students. Dr. V. Jayaraman, Director, National Remote Sensing Centre, ISRO, Hyderabad, the Chief Guest for the function, delivered the Convocation Address on 'Knowledge Management – Space Technology Application for Reaching the Unreached'. Swami Atmapriyananda, the Vice Chancellor, and Swami Atmaramananda, Administrative Head and Secretary, participated in the function.
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- Unified Play Day: Unified sport was organized. It is an offshoot of Special Olympics and the concept has been put into trial in a few western countries. This is the first time an attempt has been made in India. In this 137 intellectually challenged children (85 boys and 52 girls) and 137 normal children (86 boys and 51 girls) participated in the play day demonstration. They were also exposed to music therapy, play therapy, physiotherapy and kolam therapy. 184 parents and 68 teachers witnessed their children's performance in variety of activities. The chief guests were Sri Premchand Kashyap, Executive Director, Sports Authority of India, Sri Troy W. Grieson, Managing Director, Special Olympics Asia Pacific, Air Marshall Denzil Keelor chairman, Special Olympics Bharat, Dr. D. Raja Sabapathi, Director, Ganga Medical Centre, and Sri R. Rajendran of GKD group of companies. The resource persons were Dr. Meena was the resource person for Music therapy, Dr. Gayathri for Kolam and Dr. Shanmuga Ganesan for Psychotherapy units.
- Faculty Improvement Programme: FGAPeDY staff members Mr. M. Ganesh Kumar & Mr. M. Suresh Kumar are underwent "Software Based Statistical Analysis" Program at Annamalai University.
- FGAPeDY staff members are Sri. E. Amudhan, Sri. S. Sivasankar, Sri. S. Kalidasan, & Srimathi. S. Akila were underwent Post Graduate Diploma Special Olympics Course.
- Our staff namely Sri.R.Giridharan, attended the Hockey Clinic cum Referee examination on 21st & 22nd June 2008 organized by the Coimbatore District Hockey Association at Coimbatore.
- Our staff Sri S. Udhaya Shankar, was underwent 10 days specific training in gymnastics at Sports Authority of India Training Centre, Thiruvananthapuram.
- Our staffs Sri S.Sivasankar and Sri S.Udhayashankar attended the Kalari Payattu training programme by

Kalari master Sri.Jayaprakash from Thirunelveli.

- Achievements: Our students participated in the Inter Physical Education Tournament & Sports at Annamalai University, Chidambaram at various games and sports.

S.No	Name	Class	Events	Place
1	Mr. J. Selvanambi	M.P.Ed	Hammer Throw	II
2	Mr. R. Thirumalai Gokulan	M.P.Ed	5000 mts.	IV
3	Mr. O. Prabu	M.P.Ed	Discus	V

- Our student Sri S. Pachiappan, D.P.Ed participated in the Open Shuttle Badminton Tournament held at Dindigul and also secured the Best Player Award (Cash award & Prize).
- The candidates of 2I PGDSO / DSO were accredited as National Trainer by the Special Olympics Asia Pacific Region for the year 2008
- Our student Sri G. Anandan B.P.Ed student of our Faculty Secured 2nd Place in the District Level Badminton Tournament organized by the Vagai Sports Clup, Annur.
- Our faculty students namely Selvanambi and O. Prabhu, of M.P.Ed II year won 1st and 2nd Places in the Weight lifting competition respectively in the Coimbatore District Inter Collegiate Athletic Association's (CICAA) Competitions.
- Our faculty students namely G. Anandan, B.P.Ed & S. Pachiappan, D.P.Ed II year secured 3rd place in the Shuttle Badminton in the Coimbatore District Inter Collegiate Athletic Association's (CICAA) Competitions.
- Our student Sri Thirumalai Gokulan of our M.P.Ed., student got II position in Mini Marathon Race organized by District Sports Council.
- Tournaments Participated: Our university Ball Badminton team participated in the All India Inter University Ball Badminton tournament held at Dravidian University Kuppam.
- Extension Activities: Our students officiated in the Annual Athletic Meet of SNS College of Technology, Coimbatore and District Sports Meet for the disabled at Nirmala College, Coimbatore
- Our faculty has started free coaching classes (Weekends) in Basket ball & Volley ball for children near by Vivekananda College at the university centre Mylapore in Chennai. Swami Deshikatmananda, Secretary, Student Home, Chennai, inaugurated the camp.
- Scholarship: A total amount of Rs. 47815/- have been received towards SC/ST scholarship from the government of Tamilnadu.
- The District Adidraavidar and Tribal Classes Welfare Department sanctioned Rs. 4450/- for our two Christian converted students.
- Extension Centre: New extension centre of the faculty was inaugurated at Chennai by Srimath Swami Gowthamanandaji Maharaj, President Sri Ramakrishna Math, Chennai on 24th August 2008 at Vivekananda College Chennai, in this function Swami Atmaramanandaji Maharaj, Administrative Head, Swami Anuraganandaji, Asst Administrative Head and Sri E.Amudhan, Lecturer of our Faculty attended.
- National Council for Teacher Education: NCTE has issued conditional recognition to B.P.Ed and M.P.Ed courses of FGAPeDY.
- Meeting: Our faculty staff Sri. R. Girdharan, attended the Coimbatore District Hockey Association's Executive Committee meeting at Coimbatore

### 2009

- Training Programme: To popularize tennis among the students of our Sri Shivananda Higher secondary school (English medium), a mini Tennis programme was launched. Swami Atmaramanandaji inaugurated the programme. Sri D Devendran, tennis coach with Australian Sports Academy is in-charge of the programme.
- Our faculty students of I & II MPed gave coaching in different games at various schools and colleges of Coimbatore district.
- Meeting: An expert committee meeting of Kalari was held. Dr. V Vasudevan, Director, Arya Vaidya Sala, Ramanathapuram, Coimbatore, Sri PM Narayanan Namboodiripad, Poomulli Kalari, Palakkad, Sri Krishnadas, Vallabhatha Kalari Sangham, Chavakkad, Sri J Muniyasamy, Technical Director, AISF, attended the meeting.
- Staff Activity: Our staff Sri S Kalidasan acted as coach for the Coimbatore District Handball Team in the Tamilnadu State Championship Handball tournament held at Nagasiva polytechnic college, Madurai.
- Our staffs Sri M Ganesh kumar & Sri S Udhayasankar acted as selection committee members for Anna University football & basketball team respectively.
- Tournament Organized: Our faculty organized the 42nd Youth National Boxing Championship. In this tournament fully 33 teams participated from all over India.
- Camp: Annual leadership training camp was conducted 48 students of DPed and 26 students of BPed were held at Vellingiri hills. Our faculty staff members attended the camp along with the students.
- Tournament Participation: Our Faculty participated in the CICA tournaments at various games and sports held at Bharathiar university premises. Our Ball Badminton team won the runner up position in the tournament.
- Our university Kho-Kho and basketball teams are participating in South Zone Inter University organized by Kakatiya University and University of Vellore Institute of Technology held at Warangal and Vellore respectively.
- Research Work: The Viva Voce examination conducted for research candidates for the degree of Master of Philosophy. They were Mr. Arun K K guided by Dr R Jayachandran, Lecturer, Mr.K Kalaimanan guided by Dr E Amuthan, Lecturer and Mr.A Sellaperumal guided by Sri M Ganeshkumar, Lecturer.
- Convocation: Fourth convocation of our Ramakrishna Mission Vivekananda University was held for the faculties of our Faculty and Faculty of Disability Management and Special Education. Swami Atmapriyananda, Vice-Chancellor welcomed the gathering. Swami Atmaramananda, Administrative Head gave Introductory Address. Dr. R. A. Mashelkar, President, Global Research Alliance and Bhatnagar Fellow delivered the Convocation address. Presidential Address delivered by Swami Suhitananda, Asst. Secretary, Ramakrishna Math & Ramakrishna Mission and Pro- Chancellor of the University. Degrees and Diplomas were awarded to our M Phil, MPed, BPed, and DPed students on this occasion.
- Cultural Competition: Our students participated in the state level Inter Collegiate Dance Competition organised by Maruthi College of Physical Education.
- Our students participated in Kalaimahal Vizha group dance competition organized by Ramakrishna Mission Vidyalaya, Coimbatore.
- Clinic Class: Clinic class was conducted in the games of Kho-Kho. Followed by next day Kho-Kho referee exam was conducted.
- Tournament Participation: Our faculty teams participated in the 17th Karunya Evangeline Memorial tournament at Karunya University, Karunya Nagar in the game of football, basketball and volleyball
- Achievements: Our student Sri S.Pachaippan II DPed student got "Best player award" in the "Rajasekar Memorial Men's Doubles Shuttle Indoor Tournament" organised by the "7's sports club " Podanur, Coimbatore
- Our student Sri S Krishnan II MPed of our faculty placed first in the Swami Vivekananda Chicago speech competition.

- Faculty Improvement Programme: All staff members participated in a workshop on Volleyball conducted by Maruthi College of Physical Education.

### **Growth in infrastructural facilities since the conferment of deemed university status:**

The following buildings have been constructed:

- i. A 4-storeyed academic-cum-administrative building (total floor area nearly 50000 sq.ft.) at the Belur Math Main Campus of the University (headquarters)
- ii. A 3-storeyed academic-cum-administrative building (total floor area nearly 30000 sq.ft.) at the 'off-campus' centre at Narendrapur, West Bengal
- iii. A 3-storeyed academic-cum-administrative building (total floor area nearly 50000 sq.ft.)—the first floor is complete while the other floors are in the process of construction subject to availability of funds—at the 'off-campus' centre at Ranchi, Jharkhand
- iv. Two-storeyed academic-cum-administrative and hostel buildings, library block, etc (total floor area nearly 40000 sq.ft.) at the Coimbatore Centre, Tamil Nadu

Under construction are three buildings at Belur main campus to house (i) School of Mathematical Sciences, (ii) School of Indian Heritage and (iii) Central Library, Seminar Block and Computer Centre. The first two Schools will be 4-storeyed while the central one will be 4.5-storeyed. The total floor area of all these buildings will be: (i)  $7000 \times 4 = 28000$  sq. ft., (ii)  $7000 \times 4 = 28000$  sq.ft. and (iii)  $10000 \times 4 = 40000$  sq.ft.

Equipment (for disability management and special education, adapted and general physical education etc at Coimbatore, audio-visual equipment, computers including clusters, networking etc at Belur Math main campus and the other 'off-campus' centres), Laboratory facilities at Ranchi and Narendrapur—Tissue Culture Laboratory, Biofertilizer Laboratory, Biopesticides Production Unit, Biocontrol Laboratory, Soil testing Laboratory, Pharmacognasy Laboratory, Play field facilities at Coimbatore to be tune of nearly 5 acres, with 200 metres, 8-lane, Olympic size standard track and field, separate track and landing for field events such as high jump, long jump, triple jump, pole vault etc, standard hockey field, kho-kho court, cricket practice facility with run up tracks etc.

### **Steps taken by the deemed university on the suggestions of the various UGC Visiting Expert Committees:**

There have been only two visits by Expert Committees so far: one, for approval of the three 'off-campus' Centres, and two, for the starting of two Schools, namely, Mathematical Sciences and Indian Heritage. There have not been any specific suggestions by these Committees.

### **Whether all the authorities of the deemed university are as per the MoA/Rules. Please give details of the constitution and meetings held.**

Yes. Regular meetings of the Board of Management have been held on the following dates, either at the Belur Main Campus, or in any one of the 'Off-campus' Faculty Centres:

#### **Dates of Board of Management Meetings:**

- 11 May 2005
- 13 August 2005

- 17 December 2005
- 2 September 2006
- 4 March 2007
- 3 July 2007
- 4 November 2007
- March 2008
- 20 October 2008
- 7 March 2009
- 20 June 2009
- 16 July 2009
- 11 October 2009

Academic Council and Board of Studies meetings held as per UGC guidelines in the various Faculty Centres on account of the subject-specificity nature of the specialized areas chosen. Finance Committee meetings were also held as per guidelines. The dates of these meetings in the case of Ranchi and Narendrapur Faculty Centres are as follows:

**Ranchi—Faculty of Integrated Rural & Tribal Development and Management (IRTDM)—Combined meetings of the Academic council and Board of studies:**

Sl. No. (Meeting No.)	Date of Meeting
1	20 September 2006
2	13 January 2007
3	18 July 2007
4	2 February 2008
5	7 June 2008
6	11 December 2008
7	18 March 2009
8	10 September 2009

Narendrapur—Faculty of Integrated Rural Development and Management (IRDM)—Combined meetings of the Academic council and Board of studies:

Sl. No. (Meeting No.)	Date of Meeting
1	10 November 2006
2	19 May 2007
3	1 September 2007

Sl. No. (Meeting No.)	Date of Meeting
4	13 January 2008
5	24 May 2008
6	20 September 2008
7	3 January 2009
8	30 May 2009
9	5 September 2009

Coimbatore—Faculty of ‘Disability Management and Special Education’—Meetings of the Academic council and Board of studies:

Sl. No. (Meeting No.)	Date of Academic Council Meeting	Date of Board of Studies Meeting
1	11 August 2005	8 August 2005
2	12 February 2006	24 January 2006
3	30 August 2006	26 August 2006
4	7 March 2007	24 February 2007
5	16 April 2008	26 February 2008
6	23 April 2009	5 March 2009

Constitution of the Board of Management:

Swami Prabhananda, General Secretary of the Ramakrishna Mission (parent body or sponsoring society) is the ex-officio President of the Institute, equivalent to Chancellor of the Deemed University.

- » (1) Pro-Chancellor (Chairman)...Swami Suhitananda
- » (2) Vice Chancellor...Swami Atmapriyananda
- » (3) Dean of Research ...Swami Sarvottamananda
- » (4) Dean of the Faculty of IRDM\* at Narendrapur Centre... Dr Manas Ghosh
- » (5) Dean of the Faculty of DMSE\*\* at Coimbatore Centre ... Dr M.Chandramani
- » (6) Administrative Head of the Coimbatore Faculty Centre (Chancellor’ Nominee 1)...Swami Atmaramananda
- » (7) Administrative Head of the Ranchi IRTDM\*\*\* Faculty Centre (Chancellor’ Nominee 2)...Swami Shashankananda

- » (8) Administrative Head of the Narendrapur Faculty Centre (Chancellor' Nominee 3)...Swami Suparnananda
- » (9)UGC Nominee... Prof Arabinda Das, ex-VC, Kalyani University, WB
- » (10) MHRD Nominee... Prof Damodar Acharya, Director, IIT Kharagpur
- » (11) Funding Agency's Nominee ... Sri Lakshmi Nivas Jhunjunwala
- » (12) One Professor of the University ... Prof Siddhartha Roy, Dept of Physics
- » (13) One Professor/Associate Professor of the University ... Swami Vidyanathananda, Dept of Mathematics
- » (14) One Lecturer of the University ... Swami Bhaveshananda, Faculties of IRDM & IRTD
- » (15) Sponsoring Society's Nominee ... Prof Asis Kumar Banerjee, Ex-VC, Calcutta University Registrar (Non-member Secretary)... Swami Sarvottamananda (holding additional charge) Note:\* IRDM = Integrated Rural Development and Management—Faculty at Narendrapur Centre \*\* DMSE = Disability Management and Special Education-- Faculty at Coimbatore Centre) \*\*\* IRTDM = Integrated Rural & Tribal Development and Management —Faculty at Ranchi Centre)

## **2.39. Future growth plan of the deemed university:**

### **2.39.1. Belur Main Campus**

New campus—master plan, two schools, seminar block etc. School of Humanities and Social sciences etc.

### **2.39.2. Ranchi Faculty Centre**

The Faculty Centre is contemplating the following growth plan in future:

- » Commencement of new courses on
  - i. Diploma in Integrated Farming, Integrated Rural Bio-technology, Watershed Management.
  - ii. 2-year M.Sc. in 'Agricultural Biotechnology'
- » Development of Model Organic Farm
- » Development of five model villages on 'Sustainable farming'
- » Development of five model villages on 'Integrated Development'
- » Proposed research projectson the following areas:

### **A. Agri-Horticultural Fields (Production and improvement):**

- i. Development of home garden modules for year round vegetables production for the rural populace of Jharkhand and West Bengal
- ii. Standardization of seed production protocols for different open pollinated varieties of self-pollinated crops including vegetable crops
- iii. Establishment of the packages of practices for safe vegetables production under net house

conditions

- iv. Standardization of seed production guidelines for rabi onion from the kharif grown onion bulb
- v. Standardization of growth regulating chemicals as well as different organic solutions for initiation of rooting in hard, semi-hard and soft-wood cuttings of different horticultural crops
- vi. Identification and standardization of natural sources of organic solvents for dissolving growth regulating chemicals
- vii. Framing year round economic crop production packages in a suitable rotation for water deficit regions of Jharkhand and Eastern India
- viii. Adaptation trials on different non-traditional crops and their subsequent popularization in rural Jharkhand

#### **B. Developmental strategies and issues in Agricultural Extension System:**

- i. Changing scenario of agricultural development and its implication on agricultural extension
- ii. Farmer driven extension programmes
- iii. Dissemination and adoption of organic farming system models in Jharkhand
- iv. Innovations in Private Extension and their applications in Public Extension System
- v. Study on the Models of Private-Public Partnership in Agricultural Extension Management
- vi. Farm Management Extension (FME)
- vii. Women Groups and Agriculture Development
- viii. Farmers' Organization for Agricultural Development

#### **C. Social and Environmental issues in Rural Development:**

- i. Women's Empowerment and Rural development in Jharkhand
- ii. Dimension of Exclusion and Inclusive Policies for Rural Jharkhand
- iii. Participatory Planning and Action Programmes for Selected Villages of Jharkhand
- iv. Sustainable Tourism for Sustainable Livelihood
- v. Health Status of School-going Tribal Children of Jharkhand
- vi. Documentation of Ethno-medicinal Resources for Conserving Biodiversity
- vii. Local Knowledge System, Agro-Biodiversity and Sustainable Livelihood

#### **D. Agri-biotechnological aspects:**

- i. Standardization of tissue culture media for propagation of important horticultural and medicinal plants.
- ii. Identification and utilization of potash mobilizing bacteria and their efficacy under Jharkhand condition.
- iii. Isolation of bio-fungicides and their utilization for control of fungal diseases in different crops.
- iv. Preparation of liquid based bio-fertilizers and bio-pesticides using low cost technologies.

#### **2.39.3. Narendrapur Faculty Centre**

- » Commencement of new courses on
  - i. I-yr. Post Graduate Diploma in Integrated Rural Development & Management (IRDM)

- ii. 2-yr. M. Sc. in 'Agricultural Biotechnology'
- iii. Masters in Social Work
- iv. Certificate courses on Disaster Management
- » Laboratory of molecular biology will be established
- » Bio-control laboratory having all modern equipment will be established
- » Development of a Model Organic Farm is one important priority
- » Journal of the IRDM Faculty Centre is being planned

#### **2.39.4. Coimbatore Faculty Centre**

##### **2.39.4.1. Faculty of 'Disability Management and Special Education'**

- i. In order to facilitate credit transfer between courses approved by the NCTE and RCI, we have applied to the NCTE to start BEd, MEd, MPhil & PhD courses in General Teacher Education with emphasis on disability Management
- ii. Inter-disciplinary research doctoral degrees between general and special education
- iii. Introduction of dual degrees
- iv. Implementation of academic packages to help horizontal and vertical credit transfer between in each specialized field of disability
- v. Transfer of disability curriculum credit to facilitate graduates from other streams such as Associate degree holders, ...., admission in BEd Special Education and vice-versa
- vi. Master in Physiotherapy in Disability Management
- vii. Expansion of Orthotic and Prosthetic Department to improve quality of extension services

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

Future expansion plans to introduce following academic programs:

- i. 1. Implementation of academic course in Master of Sports Physiotherapy with emphasis on injury and disability management.
- ii. 2. Introduce new innovative courses in BSc and MSc in Yoga with emphasis on disability management and its value to physical education.
- iii. 3. To start SAI summer training course in Paralympics.
- iv. 4. Implementation of academic packages to help horizontal and vertical credit transfer between in each specialized field of physical education
- v. 5. Organizing international level seminars and conferences
- vi. 6. Creation of standard research laboratories
- » Revive the traditional sports—ancient Indian sports heritage—Start a course in Kalaripayattu for different grades
- » II: Future expansion plans to improve infrastructure
  - i. Extension of academic block
  - ii. Indoor handball stadium
  - iii. Semi indoor Tennis court
  - iv. Organizing national level tournaments
  - v. Organizing international level tournaments in disabled sports