

UNESCO CHAIR/UNITWIN NETWORK PROGRESS REPORT FORM

Title of the Chair/Network:	UNESCO Chair in Inclusive Adapted Physical Education and Yoga (1004)
Host Institution:	Ramakrishna Mission Vivekananda University (RKMVU), Belur, Howrah-711202, India.
Date of establishment of Chair/Network: (mm, yyyy)	12, 2012.
Period of activity under report: (mm, yyyy - mm, yyyy)	06, 2016 – 05, 2017
Report established by: (name, position)	Dr. Asis Goswami, Chairholder and Dean, Faculty of General and Adapted Physical Education & Yoga; Academic Coordinator of Department of Sports Science.

To be returned by electronic mail to both: unitwin@unesco.org and i.nichanian@unesco.org

Or by mail to UNESCO, Division for Teacher Development and Higher Education,
Section for Higher Education

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1. Executive Summary:

Major outcomes, results and impact of the Chair, including on national policies, in relation to its objectives as stated in Article 2 of the Chair Agreement (between the Institution and UNESCO)
(Not exceeding 300 words)

Activity of the Chair during the year 2016-17 was aimed to enlarge the scope of research and teaching activity through stating new courses, new research projects and more seminar / training programmes. This resulted in recruitment of additional faculty members. Research work on visually impaired was executed through consultation with different institutions involved in education of the VI children. Collaboration holds the core of such activity and that was achieved reasonably. Recent emphasis of Govt. of India on popularization of Yoga helped in mobilizing masses to enter in physical activity in the form of Yoga practice. It is expected that in the coming years all these activities would bring in benefits to large number of persons and thus would meet the aim of establishing the Chair.

2) Activities:

Overview of activities undertaken by the Chair during the reporting period

a) Education/Training/Research

Activities of the Chair cover two Faculties and a Department of the University under the School of Rehabilitation Science and Physical Education: a) General and Adapted Physical Education and Yoga; b) Faculty of Disability Management and Special Education and c) Department of Sports Science and d) Department of Yoga Studies.

i) Education

(leading to certificate)

Academic courses in Coimbatore Campus

1. The following courses are being conducted by the **Faculty of General and Adapted Physical Education and Yoga (FGAPEY)**, RKMVU, on a regular basis.

Ph.D.

Master of Philosophy

Master of Physical Education

Bachelor of Physical Education

Bachelor of Science in Physical Education

Diploma in Physical Education

In addition, a short term (Six weeks) course was organized on Diploma in Special Olympics (SO) in collaboration with Special Olympics Bharat, India during May-June 2016.

2. The following courses are being conducted by the **Faculty of Disability Management and Special Education (FDMSE)**, RKMVU, Coimbatore, on regular basis

Ph.D in Special Education (VI/HI/MR)

M.Phil in Special Education (VI/HI/MR)

Courses Recognized by Rehabilitation Council of India (RCI)

M.Ed in Special Education (VI/HI/MR)

B.ED in Special Education (VI/HI/MR)

D.ED in Special Education (VI/HI/MR)

DSL I – Diploma in Sign Language Interpretation

(VI-Visual Impairment, HI-Hearing Impairment, MR-Mental Retardation)

In addition Diploma in Theatre Arts for Holistic Development and Certificate course in Assistive Technology were also conducted.

Academic courses in Main Campus at Belur Math:



1. The Department of Yoga Studies has added two more courses in Yoga in addition to the already running weekend course PG Diploma course in Yoga from the session 2015. At present the courses are:

1. Two year PG Diploma in Yoga (weekend programme)

2. One year PG Diploma in Yoga (Regular programme)

3. One year Certificate Course in Yoga (weekend)

Dr. Goswami is teaching in these courses. The Diploma course also includes a course on 'Yoga for disabled persons'. An outreach programme has also been started to provide yoga practice for interested persons.

	<p>2. The Department of Sports Science will be starting Integrated M.Phil-Ph.D. programme from 2017-18 session. The course work contains a full paper on Inclusive Adapted Physical Activity and Yoga. One Doctoral student is already involved in research field “ON MOBILITY PATTERNS OF VISUALLY IMPAIRED IN SPORTING ACTIVITIES”.</p>
<p>ii) Training (short term)</p>	<p>1. Department of Mental Retardation, RKMVU-FDMSE organized a 3 day RCI approved CRE programme on “Best out of Waste: Need and Importance of TLM for Children with Intellectual Disability” from 16-18 July, 2016. Mrs. Akila Vaidyanathan, Founder Director, The Amaze Charitable Trust, Coimbatore delivered chief guest address.</p>  <p>2. Department of Visual Impairment, RKMVU-FDMSE organized a 3 day RCI approved CRE programme on “Teaching Children with Visual Impairment in Inclusive Classroom” from 6-8 August, 2016. Mr. G. Ramesh, PA to Chief Educational Officer, Coimbatore District was the chief guest of the inaugural programme.</p>  <p>3. Department of Hearing Impairment, RKMVU-FDMSE organized a 3 day RCI approved CRE programme on “Educational Assessment and Evaluation for Students with Hearing Impairment” from 27-29 August, 2016. Br. Paramarthachaitanya, Asst. Administrative Head gave benedictory Address; Dr. N. Muthaiah, Honorary Dean, FDMSE delivered the inaugural address.</p> <p>4. A 5-day training programme on “Curriculum Adaptation for Special Children” for Upper primary teachers was organized by RKMVU-FDMSE in collaboration with SSA, Chennai Tamil Nadu from 19 to 23 December 2016. The inaugural function was held on 19 November</p>

	<p>2016. Swami Garishtanandaji Maharaj presided over the function; Dr. N. Arulmurugan, CEO, Coimbatore delivered the introductory address; Dr. N. Muthaiah, Hon. Dean, FDMSE delivered special address; Mr. C. Bellraj, Asst. Project Officer and Mr. K. Abdul Wahab, State Project Co-ordinator (Inclusive Education) SSA, Chennai also spoke on the occasion.</p> <p>5. SSA Training Programme for Training Module Development organized by SCERT Chennai, was conducted in GAPEY from 09.05.2016 to 13.05.2016. Dr. S. Alagesan, was the expert.</p>  <p>6. Physical Education Training Module preparation programme was organized by DIET Thirumoothynagar from 22nd to 24th June 2016 at our faculty. Dr. S. Alagesan, Professor & Head was the subject expert.</p> <p>7. Capacity Building Training for Physical Education Teachers in Coimbatore District was organized on 27th & 28th June 2016. Around 52 Physical Education Teachers attended the training programme.</p>
<p>iii) Research</p>	<p style="text-align: center;">FGAPEY</p> <p>Dr. M. Srinivasan, Assistant Professor and Dr. R. Giridharan, Assistant Professor, presented three major project proposals, under Central Sector Research Scheme on disability related technology, products and issues, Department of Empowerment of Persons with Disabilities, Ministry of Social Justice & Empowerment, New Delhi on 01.02.2017.</p> <p><u>Altogether the following Projects were submitted</u></p> <ol style="list-style-type: none"> 1. Creation of Adapted Yoga and Meditation Program on Physical, Mental and Cognitive Development of Persons with Intellectual Disability (Dr. M. Srinivasan). 2. Effects of Yogic Practices on Motor Fitness and Pulmonary Function of Adolescents with Cerebral Palsy (Dr. R. Giridharan). 3. Design and Implementation of Unified Adapted Physical Activities and their Effects on Coordinative Abilities of Motor Skills and Physiological Variables of Adolescents with Neurodevelopmental Disabilities (Dr. R. Giridharan). 4. Dr. M. Srinivasan, Assistant Professor presented research project proposal entitled Creation of Adapted Yoga and Meditation Program on Physical, Mental and Cognitive Development of Persons with Intellectual Disability in DST (Department of Science and Technology) on 20.02.2017

	<p>at Gurgaon, Haryana.</p> <p>5. Design and impact of adapted yoga module on life skills and biomotor variables of Children with Intellectual Disability. Submitted to MSJE</p> <p style="text-align: center;">FDMSE</p> <p>1. Dr. J.B. Dheesha, Asst. Prof. FDMSE has received a sanction letter from Ministry of Social Justice and Empowerment (MSJE), regarding the financial assistance for the project on "Development of adapted science experiments for improving skills in learning science of students with visual impairment" under Central Sector Scheme "Research on Disability Related Technology Products and Issues". The total financial grant allotted is Rs. 6.85 Lakh.</p> <p>2. Effect of tactile stimulation on concept formation for children with visual impairment and learning disabilities with sensory integration problems</p> <p>3. Identifying and assessing Assistive Technology Requirements of Students with Disabilities in Education and Enhancing the list of ADIP Scheme products. Proposal submitted to Ministry of Social Justice and Empowerment, Government of India.</p> <p style="text-align: center;">Main Campus at Belur Math</p> <p>Four research projects were submitted to different Government organizations for funding.</p> <p>1. Efficacy of yoga and meditation training for rehabilitation of chronic pain in sedentary population. Project proposal submitted to the Department of Science and Technology, Ministry of Science and Technology, Government of India, under the scheme Science and Technology of Yoga and Meditation (SATYAM).</p> <p>2. Effect of Ayurvedic Medicines and Yoga on Mild and moderate Hypertension Patients. Proposal submitted to the MINISTRY OF AYURVEDA, YOGA & NATUROPATHY, UNANI, SIDDHA AND HOMEOPATHY, Government of India.</p> <p>3. Effect of Yoga and Meditation on Metabolic, Cardiovascular and Lipid Profile of Type II Diabetes Mellitus Patients. Project proposal submitted to the Department of Science and Technology, Government of West Bengal.</p> <p>4. Bibliometric mapping of research in India on YOGA. Project proposal submitted to Central Council for Research in Yoga and Naturopathy (CCRYN), Government of India.</p> <p>Research in Progress</p> <p>1. Data collection under the project "On mobility patterns of visually impaired in sporting activities" is continuing by the research scholar Mr. Triloki Prasad.. A number of test methodology were developed in this year to assess balance, equilibrium and spatial orientation ability of Visually impaired persons. Data collection on the veering pattern have been completed and research papers are being prepared for publication.</p>
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2. A project on "Effect of meditation on heart rate variability" was taken up. R-R interval is being recorded using Polar Heart rate monitors during rest, pranayam and meditation. This is a longitudinal study and data is being collected on each subject for several months.

3. An instrument for recording the spatial orientation capability of the Visually impaired persons has been developed. This test use sound signal to indicate the direction where the Visually impaired person is to move and press one switch to stop the sound. He is expected to come back to the base station after pressing the switch. Time taken to stop the sound and actual travel path are used to indicate the spatial orientation ability. The circuit used one Arduino platform for interactive interfacing with nine manually operated switching system. Of the nine switch, one is used as base station. All the stations are connected with a speaker to produce sound signal. Functioning of the system was tested and sample data collection is in progress. This instrument could also be used to train the visually impaired persons to develop their spatial orientation capability.

b) Conferences/Meetings

(key conferences and meetings organized by the Chair or to which its Chairholder contributed)

i) Key conferences and workshops hosted by the Chair

1. A national Level Seminar on “**SPORTS SCIENCE AS AN EMERGING DISCIPLINE IN HIGHER EDUCATION**” was organized at the Belur Math Campus of the University Under the aegis of UNESCO Chair during February 17-18, 2017. This was organized by the Department of Sports Science. More than 150 students and Faculty members from different colleges and Universities had participated in this seminar. Sw. Atmapriyanandaji, the Vice Chancellor, was the Patron of the seminar. Theme lecture of the seminar was delivered by Prof. B.C. Kapri, Banaras Hindu University. Luminaries from the field of sports, Arjun Award winner Olympic level sports persons Mr. Joydeep Karmakar (Shooting), Mrs. Dola Banerjee (Archery) and Dronacharya Award winner Athletics Coach Dr. Kuntal Roy delivered their views on the topic. Other speakers in the seminar were Prof. Alope Banerjee, Former Vice Chancellor of University of Kalyani and Prof. Amitabha De, Director, Indian Institute of Management, Shillong. Lectures were also delivered by Dr. Asis Goswami, Dr. Ashok Ghosh, Dr. Subhankar Ghosh, Dr. S.R. Dasgupta and many other experts of this specialized field. Dr. Goswami had highlighted the need and nature of physical activity and sports participation by disabled persons.



2. National Conference on “**Empowering Persons with Visual Impairment for Quality Livelihood through Education and Adapted Physical Education**” was organized on 27th and 28th January, 2017 jointly by two Faculties of the RKMVU-FDMSE & GAPEY.



3. The National Seminar on ‘**Education for Persons with Learning Disabilities: Practices and Perspectives**’ was organized on 24-25 March 2017, by Sri Ramakrishna Mission Vidyalaya College of Education and RKMVU-FDMSE, Coimbatore. Rev. Swami Gautamanandaji Maharaj, Vice-President, Ramakrishna Math & Mission, Belur Math, Kolkata

launched the E-Journal “Journal of Disability Management and Special Education (JODYS)”. Swami Hararupananda, SRKV-CBE oriented about the key features of “JODYS”.]



ii) Other conferences/organizational activities undertaken by the Chairholder

1. Coimbatore District Athletic, Boccee, Badminton Skill test and competition:

Special Olympics Bharath, Tamil Nadu, Coimbatore District Athletic, Boccee, Badminton Skill test and competition was organized on 15.07.2016 at our Grounds. Around 140 students from 7 Schools participated in the programme.



2. Tamilnadu Paraplegic Cricket Tournament:

Tamilnadu Paraplegic Cricket Tournament was organized on 23rd & 24th July 2016. Around 7 Districts participated in the sitting Cricket and 2 states participated in the standing cricket.



3. Differently abled district level team competitions and athletic meet:

Ramakrishna Mission Vivekananda University (RKMVU) and Sports Development Authority of Tamil Nadu (SDAT), Coimbatore District, jointly organized the 'Differently Abled District Level Team Competitions and Athletic Meet' on 26.10.2016. This meet was conducted in an open category at the Vivekananda University Playground. A total of 205 athletes, including male and female participated. Of these, there were 124 athletes with intellectual disabilities, 59 athletes with hearing impairment, 17 athletes with visual impairment, and 6 athletes with orthopaedic impairment.



4. Leadership training camp:

68 students from BPEd I and BSc II year attended Leadership Training camp at Sri Avinashilingam Krishi Vigyan Kendra Vivekanandapuram, Karamadai, Coimbatore from 22.09.2016 to 28.09.2016.

5. State Level Yoga and Kalari Competition:

GAPEY organized the 4th State Level Yoga Competition and 2nd State Level Kalari Competition on 03.02.2017 at Venkatakrishna Indoor Stadium. A total number of 736 students from 35 schools participated in the competition in which 568 took part in yoga and 168 in Kalari competition. 94 special children also participated in yoga competition.

6. State Level Inter BSC Physical Education Football Tournament:

Our Faculty organized State Level Inter BSc Physical Education Football tournament on 19th & 20th December 2016.

7. UNIFIED PLAY DAY – 2017

Unified Play Day was celebrated on 21.02.2017.

Unified Play Day began with the march past of the participating children. The following Physical Activities were demonstrated by the intellectually challenged children partnered with the normal children.

1. Free Hand Exercises, 2. Yoga, 3. Social Group Behaviour, 4. Kolam, 5. Handkerchief Exercises, 6. Hoops, 7. Flag Drills

Dr. M. Krishnamoorthy, Chief, Hematology and Oncology, New York, Dr. Lalitha Krishnamoorthy, Retired Clinical Specialist, New York, Sri J.K.M. Jayaprakash, Joint Managing Trustee, Annai J.K.K. Sampoorani Ammal Charitable Trust, Komarapalayam and Mrs. C. Renuga, CEO, KTM

Jewelry Ltd. Coimbatore were the guests of honour and inaugurated Psychotherapy, Physiotherapy, Other Therapy and Play therapy stalls. Swami Abhiramananda Maharaj presided over the function.



8. Extension Services

As many as 1,451 persons were benefited by the services of physiotherapy, speech therapy, play therapy, orthotic and prosthetic, low vision, remedial teaching and counseling. Braille unit supplied 1044 volumes of Braille Books to 76 organizations, catering to the needs of more than 2500 children with Visual Impairment from various parts of Tamil Nadu.

9. Yoga Fest 2017 at Main Campus at Belur Math

A Mass Awareness Programme on Yoga for Holistic Health and Wellbeing was organized on 17, 18, 19 March 2017 by the University with financial assistance from Central Council for Research in Yoga & Naturopathy (CCRYN), Ministry of AYUSH, Govt. of India. The programme included Seminar, workshop by various NGOs and Yoga institutes, yoga demonstration, quiz on Yoga, popularization of yoga culture by different organizations from their stalls and Yoga therapy. More than 1000 persons participated everyday in this programme. The programme also included demonstration of Indian martial arts 'Kaalari Payattu'.





iii) A selection of conference presentations by the Chairholder and other colleagues

Main Campus at Belur Math

Triloki Prasad, Subhankar Ghosh and **Asis Goswami** (2016) Variation in walking pattern in volunteers with open eye and closed eye condition. Presented by Triloki Prasad in Golden Jubilee National Seminar on Psycho-Social Perspectives of Physical Education held at Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal, India.

Coimbatore campus

S.No	Title	Journal
Dr. R. Giridharan, Assistant Professor		
1	Effect of adapted physical activity on physical fitness variables among individual with autism spectrum disorder	Proceedings of National seminar on Road map to 2020 Olympics, ISBN 81-9235734-89788192357348; 2016, p. 219-222
Dr. Dibakar Debnath, Assistant Professor		
1	Yoga therapy for back pain	Proceedings of National seminar on Road map to 2020 Olympics, ISBN 81-9235734-89788192357348; 2016, p. 219-222
2	Inclusion in physical education for students with visual impairment	Presented paper in National Conference on Empowering Persons with Visual Impairment for quality livelihood through education and adapted physical education, 2016
Sri. P. Senthilkumar, Assistant Professor		
1	Effect of kalari payattu training on physical fitness variables among inter collegiate cricket players	Proceedings of National seminar on road map to 2020 Olympics, ISBN 81-9235734-89788192357348; 2016, p. 219-222
2	Adapted cricket game modules for visual impaired	Presented paper in national conference on Empowering persons with visual impairment for quality livelihood through education and adapted physical education, 2016.

Sri. D. Yuvaraj, Assistant Professor		
	Inclusion in physical education for students with visual impairment	Presented paper in national conference on Empowering persons with visual impairment for quality livelihood through education and adapted physical education, 2016.
	Effect of specific football drills on selected skill performance and coordinative ability variables on football beginners	Proceedings of National seminar on road map to 2020 Olympics, ISBN 81-9235734-89788192357348; 2016, p. 219-222

c) Interuniversity Exchanges/Partnerships

(principal exchanges/partnerships between the Chair and other institutions including UNESCO Chairs/UNITWIN Networks)

1. Dr. Goswami has participated in the National Mission on Education through Information and Communication Technology (MNE ICT) project “e-PG Pathshala” to develop e-content in the field of “Physical Education, Sports and Health Education”. A video recording studio was established at Main campus of the university Belur Math. Thirty five modules of content were developed for Post-Graduate level of Physical Education. These contents are already uploaded in INFLIBNET website.

2. Dr. Goswami has participated as an External Expert for Development of the Draft State Sports Policy of the Government of Meghalaya prepared by Indian Institute of Management, Shillong, Meghalaya. Dr. Goswami has attended several meetings in different places of the country along with the team of IIM. The draft Policy has been submitted to the Government of Mrghalaya.

d) Publications/Multimedia Materials			
<i>(major publications and teaching/learning materials)</i>			
<i>Please tick relevant fields of output and indicate volume of output:</i>	Books	[tick] <input checked="" type="checkbox"/>	[no.] 2
	Books (edited)	<input type="checkbox"/>	
	Books (chapters)	<input type="checkbox"/>	
	Monographs	<input type="checkbox"/>	
	Research Reports	<input checked="" type="checkbox"/>	28
	Journal Articles (refereed)	<input type="checkbox"/>	
	Conference Proceedings	<input type="checkbox"/>	
	Occasional Papers	<input type="checkbox"/>	
	Teaching/Learning Materials	<input checked="" type="checkbox"/>	35
	Multimedia Materials (CD-Rom)	<input type="checkbox"/>	
	Multimedia Materials (Video)	<input checked="" type="checkbox"/>	35
Multimedia Materials (Other)	<input type="checkbox"/>		

Give details of major publications and materials including full citations.

i) Theses

M.Phil. Dissertation

Student	Guide	Topic
Arunpandian.S	Sri M. Ravi	Effect of asanas and pranayama practices on selected physical and physiological variables among inter collegiate level handball players.
Boopathy.P	Dr. R. Giridharan	Effect of specific training on selected physical fitness physiological and skill variables of high school female kho-kho players.
John Antony.J	Dr. M. Srinivasan	Effect of core strength training and aerobic dance on selected anthropometric variables among working men.
Mahesh Babu. P	Dr. R. Giridharan	Effect of adapted yogic practices on selected physical and physiological variables among individuals with cerebral palsy
Manoprabakaran. K	Dr. Dibakar Debnath	Effect of circuit training on selected physical fitness components and skill performance variables of medium pace bowlers in cricket
Vignesh. S	Dr. M. Srinivasan	Analysis of physical education curriculum on selected physical fitness, psychological and anthropometric parameters among state board, CBSE and ICSE school boys

ii) Publications

Research papers

S.No	Title	Journal
Dr. S. Alagesan, Professor & Head		
1	Effect of aerobic dance aquarobics and combined training on selected biochemical variables of engineering college students	International Journal of Adapted Physical Education & Yoga, Vol. 1, issue.8. October, 2016, ISSN : 2455-8958
2	Design and development of recreative adapted gadgets and physical activities and their effects on functional abilities and psychomotor abilities of intellectually challenged children	International Journal of Adapted Physical Education & Yoga, Vol. 1, issue. 2, April 2016, ISSN : 2455-8958
Dr. P.J. Sebastian, Professor		
1	Analysis of coordinative abilities of Selected Games	International Journal of Adapted Physical Education & Yoga, Vol. 1, issue. 4, June 2016, ISSN : 2455-8958
2	Effect of Kalaripayattu exercises on selected motor components and coordinative abilities of national level football players.	International Journal of Adapted Physical Education & Yoga, Vol. 1, issue 2, April 2016, ISSN : 2455-8958

Dr. M. Srinivasan, Assistant Professor,		
1.	Effect of Yogic Practice and SAQ Training on Selected Coordinative Abilities of Students with Hearing Impairment	American Journal of Arts and Design 2016; 1(1): 15-20
2.	Effect of Yogic Practice and SAQ training on Selected Physical Fitness Variables of Students with Hearing Impairment	International Journal of Recent Research and Applied Studies, Volume 3, Issue 12 (18), pp. 78-83, December 2016
3.	Impact of adapted with unified exercise programme on selected fundamental motor skills of children with intellectual disability	International Journal of Recent Research and Applied Studies, Volume 3, Issue 11, pp. 64-67, ISSN 2349-4891, November 2016
4.	Impact of Adapted Physical Activities on Selected Motor Fitness Variables of Girls with Intellectual Disability,	International Journal of Recent Research and Applied Studies, Volume 3, Issue 7 (8), pp. 44-49, ISSN 2349-4891, July 2016,
5.	Effect of adapted physical activities on selected biomotor variables of boys with intellectual disability	Indian Streams Research Journal, Vol. 6, No. 5, pp. 49-55, ISSN: 2230 – 7850, Impact factor – 4.1625, June
6.	Impact of adapted yoga with recreational games practice on selected biomotor variables of intellectually challenged children	International Journal of Adapted Physical Education & Yoga, 2016, Vol. 1, No. 2, pp.8-16. ISSN: 2455 – 8958
7.	Effect of e-content assistive with traditional training on selected biomotor abilities of intercollegiate cricket pace bowlers	International Journal of Adapted Physical Education & Yoga, 2016, Vol. 1, No. 2, pp. 28-34. ISSN: 2455 – 8958
8.	Effect of e-content assistive with traditional training on selected skill performance variables of intercollegiate cricket pace bowlers	International Journal of Current Research and Modern Education (IJCRME) ISSN: 2455 – 5428 Volume I, Issue I, 2016, pp. 334-339.
9.	Effect of traditional training on selected skill performance variables of inter-collegiate cricket pace bowlers	International journal of recent research and applied studies ISSN 2349-4891 March 2016, Vol. 3, Issue 3, 3(9), pp.35-38.
10.	Effect of e-content assistive and imagery specific training with traditional training on selected biomotor abilities of intercollegiate cricket pace bowlers	International Journal of Recent Scientific Research, ISSN: 0976-3031, 2016, Vol. 7, Issue, 4, pp. 10561-10564, April.
11.	Effect of e-content assistive and imagery specific training with traditional training on selected skill performance variables of intercollegiate cricket pace bowlers	International Journal of Multidisciplinary Research and Modern Education (IJMRME) ISSN 2454 – 6119, Volume II, Issue I, 2016, pp.519-525.
12.	Effect of ladder training on selected physical fitness variables on school volleyball players	International Journal of Advanced Science and Research, ISSN 2455- 4227 January 2016, Vol. 1, Issue 1, pp.39-40.

Dr. R. Giridharan, Assistant Professor		
1.	Adapted physical activities on cognitive abilities of processing speed among adolescents with intellectually disability	Journal of Physical Education and Sports Sciences; Volume -4 ; Issue- 1: June 2016, ISSN: 0976-6618; pp 42-50
2.	Effects of varied forms of weight training on selected anthropometric variables of college students.	International Journal of Adapted Physical Education & Yoga, Vol. 1, No. 1. March, 2016, ISSN : 2455-8958
3.	Impact of adapted with unified exercise programme on selected fundamental motor skills of children with intellectual disability	International Journal of Recent Research and Applied Studies, Volume 3, Issue 11, pp. 64-67, ISSN 2349-4891, November 2016
Dr. A. Sathiya Moorthy Assistant Professor		
1	Comparative effective of mcconnell taping kinesio tex taping method with lower body plyometric training on physical fitness variable and pain among university level volleyball players with petello – formal pain syndrome	International Journal of Adapted Physical Education & Yoga, Vol. 1, No. 1. March, 2016, ISSN : 2455-8958
Dr. Dibakar Debnath, Assistant Professor		
1	Effect of plyometric training on selected motor fitness variables on among college handball players	International journal of law, education, social and sports studied, Volume.1.s.1.2016; ISSN:- 2455-8958. P 47-49
Sri. M. Ravi, Assistant Professor		
1	Effect of Yogic Practice and SAQ training on Selected Physical Fitness Variables of Students with Hearing Impairment	International Journal of Recent Research and Applied Studies, Volume 3, Issue 12 (18), pp. 78-83, December 2016
2	Effect of Yogic Practice and SAQ Training on Selected Coordinative Abilities of Students with Hearing Impairment	American Journal of Arts and Design 2016; 1(1): 15-20
3	Effects of varied forms of weight training on selected anthropometric variables of college students.	International Journal of Adapted Physical Education & Yoga, Vol. 1, No. 1. March, 2016, ISSN : 2455-8958
Sri. P. Senthilkumar, Assistant Professor		
1	Effect of specific batting skill training on selected psychomotor variables on college level cricket players	International Journal of Adapted Physical Education & Yoga, Vol. 1, No. 1. March, 2016, ISSN : 2455-8958
Sri. D. Yuvaraj, Assistant Professor		
1.	Position –wise analysis of coordinative ability and anthropometric variables among college level football players	International Journal of Adapted Physical Education & Yoga, Vol. 1, No. 1. March, 2016, ISSN : 2455-8958
2.	Effect of asana and pranayama practices on selected physical and physiological variables of college men	International journal of physical education, sports and health, P-ISSN: 2394-1685, E-ISSN:2394-1693 Impact Factor (ISRA): 5.38, 2016; 3(5): 204-205

3.	Effect of aerobic training on selected bio-chemical and anthropometrical variables of college men	International journal of physical education, sports and health, P-ISSN: 2394-1685, E-ISSN:2394-1693 Impact Factor (ISRA): 5.38 2016; 3(5): 206-207
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Details of major publications and materials.

Journal of Adapted Physical Education and Yoga:

The biannual Journal of Adapted Physical Education and Yoga (JOAPEY) published by GAPEY was converted to monthly online journal named International Journal of Adapted Physical Education and Yoga (IJAPEY). The online journal IJAPEY was launched on 06.03.2016 by Revered Swami Gautamananda Maharaj, President, Ramakrishna Math, Chennai.

Book Publication:

11th Convocation of Ramakrishna Mission Vivekananda University was held on 20.08.2016. On this occasion Swami Atmapriyananda Maharaj released 'Report of the activities of UNESCO Chair 2015-16' and a Quarterly Magazine in Braille and Large print "**Wonders of Touch**" was released by Prof S. Parasuraman, Chief Guest of this occasion.

e) Cooperation with UNESCO Headquarters, Field Offices

NA

f) Other (any other activities to report)

Staff strength of the Department of Sports Science has been increased by appointing two more faculty members. They are:

1. Prof. A.K. Ghosh, former Associate Professor, Faculty of Medicine and Health Sciences, University Tunku Abdul Rahman, Bandar Sungai Long, Selangor, Malaysia.
2. Prof. Subhankar Ghosh, Department of Physics, St. Xavier's College, Kolkata, as Adjunct Faculty.

A number of the future plans that were mentioned in the last report, have been implemented already. They are:

1. Establishment of Sports Science and Yoga research laboratory

Construction of the building for Sports Science and Yoga is nearing completion. The instruments purchased last year are being used in various research projects.

2. Starting of Sports Science and Yoga Course

New courses in Yoga launched during the year are:

1. One year full time Post Graduate Diploma in Yoga
2. Certificate course in Yoga.

3. Assistive Technology Cell: The Assistive technology cell was planned in the last year has started functioning with a number of equipment and facilities.

4. Play Area for Disabled Children: Playing facilities to promote physical, mental and social benefits. FDMSE has developed play grounds like Jumping pit, stair climbing exercise area, volleyball ground and a small multipurpose playfield, and Bocce ground. This facility is being used regularly to organize different disabled sports competitions.

3. Future Plans and Development Prospects:

Outline of action plan for the next biennium and short/medium and long-term development prospects. Please do not hesitate to refer to difficulties that the Chair has experienced (Not exceeding 300 words)

In the coming four years the UNESCO Chair activities would be focused around the following directions:

1. Enlarging scope of research work through more research programmes. Emphasis would be placed on building collaboration with other organizations for research studies.
2. Starting more number of courses to develop trained manpower who will be able to promote inclusive environment and improve quality of life of the disabled population.
3. Broad base the service facility through collaborations.

Attempts would be made to achieve these goals through the following methods and means:

a. Academic courses to be conducted

- i. Courses related to sports
 - a) Integrated M.Phil.-Ph.D. (programme in all related fields)
 - b) M.Sc. in Sports Science
 - c) Diploma in Sports Science
 - d) Diploma in sports training
 - e) Diploma in sports psychology
- ii. Courses related to disability
 - a) M. Sc. in Rehabilitation sciences
 - b) M. Sc. Adapted Physical Education
 - c) Diploma course in Orientation and mobility training for the blind persons
- iii. Special programmes related to the UNESCO Chair
 - a) Certificate programmes for awareness creation about 'Inclusive Adapted Physical Education' among School and college level physical education teachers.

b. Identified research project area(s)

- I. **Clinical fields** (sports medicine / orthopaedics / psychiatry / and the like)
 - a) Mapping of risk factors in various sports and games
 - b) Proprioceptive neuromuscular facilitation (PNF) effectiveness in recovery from fatigue
 - c) Health risk assessment of elderly population in urban and rural sectors of West Bengal.
- II. **Exercise physiology and biochemistry**
 - a) Heart rate variability in resting state in relation to age & gender – focus for creating the standard.

- b) Study of posture control in different age groups and in disability (interdisciplinary with Biomechanics)
- c) Muscle involvement mapping in shoulder and hip joint motions.
- d) Cardio-respiratory capacity in different category of disability.
- e) Effect of stress reduction methods on Lifestyle disorders

III. Psychology

- a) Psycho-physiology of depression in aged.
- b) Psychological profile of persons with sensory deficit.
- c) Psycho-physiological effect of yoga and meditation.

IV. Biomechanics / human movement

- a) Development of a tool for evaluation of Static and dynamic weight bearing patterns in elderly persons.
- b) Gait pattern in blind and deaf persons.
- c) Static posture control and skill in archery and shooting

V. Training methods / sports analysis / match analysis

Orientation and Mobility (O & M) training in relation to motor learning – deficit and advantage.

Match analysis in Table Tennis, Badminton, Hockey and Soccer.

VI. Innovation laboratory (Workshop for rehabilitation engineering)

- a) Development of GPS activated walking stick (with Biomechanics & physiology)
- b) Development light weight orthotic devices

c. Projects with social relevance

Sensory Park:

A plan for the creation of a Sensory Park is ready for submission to different funding organizations. The space required for the project has been identified and allocated at Coimbatore Campus of the university with a possible name “Sri Sarada Devi Knowledge Park”. The project has the following aims to achieve:

1. The Knowledge Park would provide an environment to stimulate the sensory organs and motivate children and parents to seek knowledge. It would also preserve & propagate the tradition, create awareness about nature & inculcate love for it and encourage wisdom seeking processes.
2. The knowledge park would also serve as real life laboratory to study the sensory systems of the disabled persons as well as normal human being. A number of structure have been planned to be included in the park as
 - Tactile Wall
 - Sensory Gardens
 - Bridge
 - Rocking Boat
 - Rock garden/Water falls
 - Artificial Forest
 - Sculptures

- Artificial Mountain
- Inclusive Play Equipment
- Sensory Pod
- Assistive Tech Cell

Difficulties encountered:

Limited financial support is a major deterrent in research programmes and other developmental activities. Specially grant for manpower like Research Fellow and Faculty members are hindrance for bigger activities.

Appendix:

1) Human Resources

Main Campus at Belur Math

Swami Atmapriyananda - Vice Chancellor
 Swami Sarvottamananda – Pro Vice Chancellor
 Swami Hariharananda - Registrar
 Swami Kirtipradananda – Deputy Registrar
 Swami Kaleshananda - Controller of Examinations

Department of Sports Science

Dr. Asis Goswami - UNESCO Chair and Academic Coordinator
 Dr. A.K. Ghosh - Professor
 Dr. Subhankar Ghosh - Adjunct Faculty

Department of Yoga Studies

Dr. U.S. Ray - Head of the Deptt.
 Mr. Prasanta Samanta - Yoga Trainer and Teacher
 Mr. Dpankar Pal - Visiting Faculty
 Dr. K.P. Pal - Visiting Faculty
 Mr. Robin Karati - Visiting Faculty

Coimbatore Campus

Administrative Head
 ♦ Swami Garisthananda
Assist. Administrative Head
 ♦ Swami Divyapragyananda

GAPEY Faculty members

Dean of the Faculty
 ♦ Dr Asis Goswami

♣ Department of General and Adapted Physical Education

♦ Dr. S. Alagesan
 ♦ Dr. P.J. Sebastian
 ♦ Dr. Giridharan
 ♦ Dr. Sathiamurthy

♣ Department of Adapted Yoga

♦ Dr. Srinivasan
 ♦ Dr. Divakar Debnath
 ♦ Mr. Senthil Kumar
 ♦ Mr. Ravi
 ♦ Mr. Mohan Raj

FDMSE Faculty members

- ♣ **Dean of the Faculty**
 - ♣ **Dr Muthaiah**
- ♣ **Department of Visual Impairment**
 - ♣ **Mrs. Kamakshamma Moorthy**
 - ♣ **Dr. Parween**
 - ♣ **Dr. Dheesha**
- ♣ **Department of Hearing Impairment**
 - ♣ **Mr. Parthasarathy**
 - ♣ **Dr. Abhishek Srivastav**
 - ♣ **Mr. Ramakrishna Pettala**
 - ♣ **Ms. Pongothai**
- ♣ **Department of Mental retardation**
 - ♣ **Dr. A. Sudha**
 - ♣ **Ms. Saumya**
 - ♣ **Mr. Lokesh kumar**
- ♣ **Core Faculty**
 - ♣ **Dr. Prabha Hariharan**

2) Financial Resources

<i>Please tick sources of financial contribution and specify the amount in U.S. dollars</i>		[tick]	Amount (\$)(approx)
Host Institution	<input type="checkbox"/>	√	305714.00
Partner Institution	<input type="checkbox"/>		_____
Government Body	<input type="checkbox"/>		65714.00
Other Public Institution/Body	<input type="checkbox"/>		_____
(incl. Research Councils)			
UNESCO	<input type="checkbox"/>		_____
Other UN Agency	<input type="checkbox"/>		_____
IGO	<input type="checkbox"/>		_____
NGO	<input type="checkbox"/>		_____
Industry	<input type="checkbox"/>		_____
Other Private	<input type="checkbox"/>		_____

Give details of financial contributions, material resources and space.

Infrastructure available in Coimbatore Campus

FGAPEY

Administrative Building

This houses offices of Administrative Head, Dean, faculty members, office bearers and research scholars. It has a fully provided assembly hall, world class-conference room and multi-purpose hall for conducting the daily assembly and occasional meetings. The building is disabled friendly and is provided with ramps, lift, wheel chairs and disability friendly toilets.

Academic Block and Library (Common for both the faculties)

It is a huge class room complex with 20 class rooms. Classes are held in this building for different courses offered at our University. The building is disabled friendly and fully furnished for all class room activities.

It also has a fully furnished Disabled friendly Library with about 1,00,000 books and journals. The Library has computers provided with internet facility and software like NVDA and JAWS meant for visually challenged population. The library has more than 35 subscriptions of periodicals including national and international journals and magazines. The library abounds with various other instructional materials such as DVDs, Audio and Video cassettes, Braille books and books on Sign language. In addition, large number of research theses and dissertations add to the richness of the library. Internet and reprographic services are available to for the convenience of the students.

Laboratories

In addition to the classrooms and lecture halls, the Faculty shares the following laboratories with the MCPE (Maruthi College Physical Education):

- Educational Psychology and Sports Psychology Laboratory
- Educational Technology and Media Laboratory
- Anatomy and Exercise Physiology Laboratory
- Health, Physiotherapy and Sports Medicine Laboratory
- Kinesiology and Biomechanics Laboratory

Swami Niranjanananda Hostel for Men (capacity 300)

The Faculty besides its building has a spacious Hostel for Men. The Hostel has two dining halls and a kitchen. The Hostel is at a stone's throw away from the Faculty. Hence sports facilities and grounds are accessible to students round the clock.

Play Fields and Related Infrastructure

The sprawling campus has the following Spots related infrastructure which meet the needs of the students as needs as well as public in an around Vidyalaya.

- Fitness centre,
- Adequate play ground, both indoor and outdoor.
- A 400 meters track,
- Hockey field,
- Football field,
- A volleyball complex ,

- Tennis complex,
- Ball-badminton complex,
- Kabaddi complex, etc.,
- A well equipped indoor stadium
- Tennis Indoor stadiums

Recreation

All the buildings situated in Spectacular Sprawling campus of the GAPEY are well connected by roads. There are beautiful gardens all over with many a species of plants. Many species of birds, especially peacocks are our occasional visitors. An Indoor stadium of international standards where we observe our annual day celebrations, a well equipped Gymnasium, A Tennis Indoor stadium, various playfields belonging to Vidyalaya cater to the recreational needs of our students. Large GKD Auditorium with a capacity of 800 is the place where we organize cultural events and seminars. There are Ramayana Park and Vivekananda Park for relaxation. There are provisions for staff-members to stay inside the Vidyalaya Campus. These are among the other infrastructural facilities that GAPEY enjoys because of its setting in Vidyalaya to mention a few.

FDMSE

Administrative Building

This houses offices of Administrative Head, Dean, faculty members, office bearers and research scholars. It has a fully provided assembly hall, conference room and multi-purpose hall for conducting the daily assembly and occasional meetings. Apart from these some of the extension units like Braille Press, Orthotic and Prosthetic Unit, Sign Language Unit, Low Vision Unit, Audio Video Lab, Vocational training Unit are situated in the same building. The building is disabled friendly and is provided with ramps, lift, wheel chairs and disability friendly toilets.

Academic Block (Common for both the faculties)

It is a huge class room complex with 20 class rooms. Classes are held in this building for different courses offered at our University. The building is disabled friendly and fully furnished for all class room activities. It also has a fully furnished Disabled friendly Library with about 1,00,000 books and journals. The Library has computers provided with internet facility and soft-wares like NVDA and JAWS meant for visually challenged population. There is a separate Braille book section in the library. There are several CDs and DVDs to encourage different modes of learning.

Hostel for Men and Women

Swami Vivekananda Hostel for Men (Capacity 144) and Sri Sarada Devi Hostel for Women (Capacity 82). These are two separate hostels meant for teacher trainees undergoing various courses at our Faculty. The Hostels in general are disabled friendly provided with ramps etc. There are rooms with attached bathrooms inside the hostel, which are disabled friendly especially to accommodate physically challenged teacher trainees. Each hostel has separate huge dining hall, a prayer hall and playfields for recreation.

Therapy Unit

This is another place where the children with disabilities are attended to by our expert special educators. Teacher trainees also undergo hands on training here about how to deal with children with disabilities. We have three spacious rooms in this area for this purpose. Parents of the children with disabilities are given training at personal level to deal with their children. The area is

provided with different Play grounds for teaching Adapted Physical Education to children with disabilities. A small scale canteen supplies the refreshments for the people at FDMSE.

Recreation

All the buildings situated in Spectacular Sprawling campus of the FDMSE are well connected by roads. There are beautiful gardens all over with many a species of plants. Many species of birds, especially peacocks are our occasional visitors. An Indoor stadium of international standards, a well equipped Gymnasium, various playfields belonging to Vidyalaya cater to the recreational needs of our students. Large GKD Auditorium with a capacity of 800 is the place where we organize our annual day, cultural events and seminars. There are Ramayana Park and Vivekananda Park for relaxation. There are provisions for staff-members to stay inside the Vidyalaya Campus. These are among the other infrastructural facilities that FDMSE enjoys because of its setting in Vidyalaya to mention a few.

Belur Campus

1. The Infrastructure facility of Main campus:

Administrative block (in Medha Bhaban)



Academic Block (Pajna Bhaban) (include Yoga Practice Hall, Meditation Hall, Laboratory and class rooms)



Multipurpose play field
 Hostel for Science students
 Hostel for Humanities students
 Guest house
 Upcoming Sports Science and Yoga Building

End of the Form