

## EVALUATIVE REPORT OF CENTRE FOR PHYSIOTHERAPY & REHABILITATION SCIENCES

1. Name of the Department : **Centre for Physiotherapy & Rehabilitation Sciences**
2. Year of establishment : **2006 (Under UGC Xth plan Special Grant)**
3. Is the Department part of a School/Faculty of the university?

**Yes, Centre is attached with Faculty of Natural Sciences for administrative Purpose**

4. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

S. No.	Name of the Programme	Type of the Programme	Annual Intake
1.	Bachelor of Physiotherapy (BPT)	Regular, Full Time (4 ½ years)	40
2.	Master of Physiotherapy (Sports & Orthopedics)	Regular, Full Time (2 years)	20
3.	Ph.D.	Regular, Full Time	-

5. Interdisciplinary courses and departments involved : None
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: None
7. Details of programmes / courses discontinued, if any, with reasons : None
8. Examination System:

S. No	Name of the Programme	Specialization	Examination System
1.	Bachelor of Physiotherapy (BPT)	Physiotherapy	Annual system
2.	Master of Physiotherapy (MPT)	Sports/Ortho.	Semester System since 2010
3.	Ph. D.	Physiotherapy & allied areas	Semester system from 2010-

9. Participation of the department in the courses offered by other departments : NA
10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

S. No.	Post	Sanctioned	Filled	Actual Positions (Including CAS/MPS)
1.	Professor	02	01	01
2.	Associate Professors	01	Nil	00
3.	Asst. Professors	05	05	05

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### 11. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil.,

S. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 7 years	
						Awarded	Under Supervision
1	M. Ejaz Hussain	M.Phil, PhD	Professor	Physiology- Neuro-muscular sciences	28	08	08
2	Zubia Veqar	MPT, PhD (Perusing)	Asst. Professor	Osteomyology	13	-	-
3	Jamal Ali Moiz	MPT, PhD (Perusing)	Asst. Professor	Cardiopulmonar y	8	-	-
4	Saurabh Sharma	MPT, PhD (Perusing)	Asst. Professor	Neurology	8	-	-
5	Majumi M. Nuhoo	MPT, PhD (Perusing)	Asst. Professor	Sports Medicine	10	-	-
6	Shahid Raza	MPT,	Asst. Professor	Sports Medicine	8	-	-

### 12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

S. No.	Name & Former affiliation	Duration	Designation	Area of Expertise
1.	Prof. M. Fahim, Ph.D. Professor of Physiology (Retd) V.P. Chest Institute Delhi University, Delhi	2 years 2009- 2011	UGC Emeritus Prof.	Cardiovascular and Neurophysiology
2.	Prof. Najma Z.Baqar Professor School of Life Sciences, JNU	One year 2008-09	Visiting professor	Neurochemistry
3.	Dr. A. k. Daber, M.S. Ortho Head, Dept. of Orthopedics ESI Hospital, Okhla Ind. Area, ND	Three years 2012-	Visiting professor	Orthopedics
4	Dr.Chandan Chawla, MPT Senior Physiotherapist	Three years 2012-	Visiting professor	Physiotherapy (Ortho ) Exercise/Manual Therapy, Sports injury management

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5.	Dr. Subra Karmakar, Ph.D.(Physiology) Calcutta University	One year	Adjunct Faculty	Exercise Physiology
6.	Dr.A.J.Ahuja, M.S.,PGDSM Sports Authority of India, New Delhi	One year	Visiting Faculty	Sports Medicine
7.	Dr. Zafar Azeem, MPT	Two years	Visiting Faculty	Sports Physiotherapy
8.	Dr.Kavita Gulati, Ph.D. V.P.Chest institute, Delhi	Three years	Visiting Faculty	Pharmacology
9.	Dr.Sachin Yadac, M.S,Ortho S.J.Hospital,ND	Two years	Visiting Faculty	Orthopedics
10.	Dr.Neeraj Srivastava, MD Physiology MRIU, Faridabad	Four years	Visiting Faculty	Physiology
11.	Dr.Munish Khanna, MD Anatomy MRIU, Faridabad	Four years	Visiting Faculty	Anatomy
12.	Dr,M.Y.Shareef, MS Ansari Health Centre, JMI	Four years	Visiting Faculty	Surgery
13.	Dr.Niraj jain, MD, Radio R & R Army hospital	Two years	Visiting Faculty	Radiology
14.	Dr.Dhananjay Shaw, Ph.D. IGIPE, DU	Two years	Visiting Faculty	Biomechanics
15.	Prof.G.I.khanna MRIU, Faridabad	Two years	Visiting Faculty	Exercise Physiology
16.	Dr.Irshad Naqvi, MD Ansari Health Centre	Three years	Visiting Faculty	Medicine/Pediatrics
17.	Dr.Gagan Kapoor, MPT MRIU	One year	Visiting Faculty	Sports injury
18.	Dr.Moazzam Khan, MPT Sr.Physiotherapist CRPF New Delhi	One year	Visiting Faculty	Sports Physiotherapy
19.	Dr. Anuradha Solanki, Ph.D. SAI, ND	Two years	Visiting Faculty	Sports Psychology
20	Dr.Anup Krishnan, PGDSM Army Hospital, Delhi	One year	Visiting Faculty	Sports Medicine

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### 13. Percentage of classes taken by visiting faculty – programme-wise information

S.No.	Programme	% of classes by visiting faculty	Remarks
1.	Bachelor of Physiotherapy (BPT)	40%	Most of the clinical papers are taken by VF
2.	Master in Physiotherapy (MPT)-Sports	50%	MPT is partly self financed course

### 14. Programme-wise Student Teacher Ratio

S. No.	Programme	Student-Teacher ratio	Remarks
1.	Bachelor of Physiotherapy (BPT)	18 : 1 #	Most of the clinical papers are taken by VF
2.	Master in Physiotherapy (MPT)-Sports	10.5 : 1 ##	MPT is partly self financed course supported by UGC
# calculated as per workload of regular faculty and ## with Visiting/guest/adjunct faculty			

### 15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

S. No.	Acad Support Staff (Tech) & Admin.	Permanent	contractual	Filled
1.	Technical Asst.	2	-	2
2.	Physiotherapist (contractual)	0	2	2
3.	Lab.Asst.(1 regular+1 Contract)	1	1	2
4.	Office Asst/Accounts Asst	0	2	2
4	Library Asst.	0	1	1
5.	Lab. Attend	0	4	4
6	Peon	1	0	1

### 16. Research thrust areas recognized by funding agencies

Sr. No	Recognized Thrust Areas	Funding agency
1.	Sleep Physiology and PT-mediated Sleep Rehabilitation	UGC

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2.	Role of herbal medicine in Cardiac hypertrophy	CCRUM/AYUSH
3.	Physiotherapy and Sports rehabilitation	UGC

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

S. No.	Projects Name	PI/Co-PI	Year From to	Funding agency	Amount sanctioned
1	Therapeutics and prophylactic potential of herbal drug in protection from chronic heart failure	Prof. M. Ejaz Hussain & Prof. M. Fahim	2009-2012	CCRUM (Ayush) Ministry of Health, GOI	RS.25,00,000/-
2	Effect of interferential therapy and temperature manipulation on sleep parameters in human subjects	Prof. M. Ejaz Hussain, Dr.Zubia Veqar (PT)	2010-2013	UGC	Rs.7,71,800/-
3	Integrated Master of Physiotherapy and Ph.D Programme in Sport Physiotherapy	Co-Ordinator : Prof. M. Ejaz Hussain	2010-2014	UGC Innovative programme	Rs.45,00,000/-

18. Inter-institutional collaborative projects and grants received – Nil

19. Departmental projects funded by UGC-Innovative, DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc., please indicate total grants received.

Integrated Master of Physiotherapy and Ph. D Programme in Sport Physiotherapy	2010-2014	UGC Innovative programme	Rs.45,00,000/-
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20. Research facility / centre with state recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications: (2007-2012)

S. No.	Item	Total Numbers
1	Number of papers published in peer reviewed journals (national / international) *	70
2	Number of papers published in conferences	-
3	Monographs	-
4	Chapters in Books	-

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5	Edited Books	-
6	Laboratory Manuals	-
7	Articles in Magazines	-
8	Editorials	-
9	Books with ISBN with details of publishers *	-
10	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	Pub Med, Web of Science, Scopus, Science Direct, Google Scholar
11	Citation Index – range / average (Highest Range)	2 -- 33
12	SNIP (Highest Range)	406 -- .877
13	SJR (Highest Range)	.414 -- .928
14	Impact Factor – range	.44 -- 3.096
15	h-index range	0-9

23. Details of patents and income generated (Patent applied also can be indicated .Pl give details of filing, name etc.)- NA
24. Areas of consultancy and income generated (Please include non-income consultancy as well as income consultancy)- NA
25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad. (Example visited any laboratory in India or Internationally for their laboratory set up, expansion). NA
26. Faculty serving in
- a) National committees- Prof. M.Ejaz Hussain is member of Board of Studies, Selection committee panel of many Central and state Universities- Bihar Central University, Ha
  - b) Hamhard University, LN Mithila University (Chancellor nominee), UGC Observer for selection of Professor at Punjabi University, Patiala
  - b) International committees
  - c) Editorial Boards
  - d) Any other (please specify) (Fellow /Member of any society/ Academy etc )
27. Faculty recharging strategies: (Orientation programs in the last 5 years, Summit, Post Doctoral Fellowships, Refresher Courses, Academic Staff College programs etc.)

<b>Dr. Zubia Veqar (PT)</b>	<b>Asstt. Professor</b>	<b>Orientation course done at ASC,JMI, 2009</b>
Dr. Jamal A.Moiz (PT)	Asstt. Professor	Orientation course done at ASC,JMI ,2011
Dr. Saurabh Sharma (PT)	Asstt. Professor	Orientation course done at ASC,JMI, 2011
Dr. Majumi M.Noohu (PT)	Asstt. Professor	Orientation course done at ASC,JMI, 2012

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### 28. Student Projects: (give details )

In house projects

Collaborative projects with other universities, industry, DRDO, etc

Research Projects and Collaborations with other Institutions:

S. No.	Name of Scholar	Title of research work	Collaboting institution	Placements
1.	Zahid Ashraf	Endothelial dysfunction in experimentally induced atherosclerosis in animals	Prof. M. Fahim V.P.Chest Institute, Delhi university	Scientist”C” DIPAS, DRDO
2.	Nahid Masood	Some Studies on Excitation- Contraction Coupling in Skeletal muscles	Prof. M. Fahim V.P. Chest Institute, Delhi university	Reader, Amity University.
3.	Mamta Singh	Innate immune mechanism in Aspergilosis in mice model	Dr Usha Sharma Institute of Genomics & Integrated Biology, IGIBE, Delhi	DST Young Scientist, IGIBE, Delhi
4.	Jyoti Gupta	Characterization of genomic segments altered in human meningiomas	Prof. S. Sinha Dept. of Biochemistry, AIIMS	Post-Doctoral Fellow in Canada
5.	Bibhuti Mishra	Serum Protein affected by REM sleep deprivation and its neurophysiologic correlates on sleep- wakefulness in rats	Prof. B. N. Mallik School of Life Sciences, JNU	Post-Doctoral Fellow in USA
6.	Roopali Gandhi	Study of Apoptotic cell death by antibody in cell culture	Dr.Rahul Pal National Institute if Immunology Delhi	Post-Doctoral Fellow in USA
7.	Sachin Puri	Characterization of the properties of an amplified region of DNA in primary Meningeal tumors	Prof.S.Sinha Dept. of Biochemistry, AIIMS	Post-Doctoral Fellow in USA
8.	Rizwan Siddiqui	Effect of experimental diabetes on membrane functions and its reversal by ant diabetic compounds	Prof.N.Z.Baqar School of Life Sciences,JNU	Post-Doctoral Fellow in USA
9.	Arun Pradhan	Studies on DEAD-box helicase in <i>Plasmodium falciparum</i>	Dr.Renu tuteja International Centre for genetic	Post-Doctoral Fellow NIH USA

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			Engineering (ICGEB) ,New Delhi	
10.	Pallavi Seth	Effect of Phenolic compound Curcumin on Neurophysiological, Biochemical and Behavioral alteration in Aluminium induced accelerated aging in Rat brain	Dr.Arun Sharma School of Life Sciences,JNU	Post-Doctoral Fellow in USA
11.	Mohd. Athar	Studies on the effect of DNA minor groove binding ligand on mitochondria structure function in irradiated Mammalian cells	Dr.NK Chaudhury Dr.R.Varshney INMAS, New Delhi	SRF INMAS/ DRDO
12.	Mahesh Kumar Seth	Evaluation of novel peptidomimics as ACEIs for antihypertensive activity using animal models of hypertension	Dr.santosh Pasha Institute of Genomics & Integrated Biology, IGIBE, Delhi	Scientist Ranbaxy Lab, Gurgaon
13.	Kapil Dev	Immunohistochemical and molecular study of Apoptotic regulators (Bcl-2,Bax) and Her-2/neu oncogene in breast cancer	Prof. Maulana Azad Medical College New Delhi	Asst.Prof Dept. of Biotechnology , JMI
14.	Jamal A.Moiz	Effect of addition of balance training to pulmonary Rehabilitation for patients with chronic obstructive pulmonary disease	Prof.S.N.Gaur V.P.Chest Institute, Delhi university	Asst.Prof. CPRS
15.	M.Majumi Noohu	Studies on the effect of Exercise interventions for prevention of Falls in community Dwelling Elderly adult fallers	Prof.Ray Dept. of Medicine AIIMS	Asst.Prof. CPRS

Masters Project:

MPT-Sports Sem-IV Research Project (2011-12):

S. No	Name	Topic	Supervisor
1.	Geeta Sharma	“Effect of Ice Massage on the Weight Discrimination Ability and Lower Extremity Functional Performance in Collegiate Footballers”	Dr. Majumi M Noohu
2.	Rashi Bhat	“Comparison of Dynamic Balance in Collegiate Field Hockey and Football player using Star Excursion Balance Test”	Dr. Jamal Ali Moiz



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3.	Kamakshi Dhaliwal	“Can” Exercise Positions : Reliability of establishment of one repetition maximum of supraspinatus and related musculature	Prof. M Ejaz Hussain
4.	Rahul Sharma	“Comparison of Dynamic and Static Stretching on Dynamic Balance Performance in Recreational Football Players”	Dr. Zafar Azeem
5.	Deepika Singla	“A Comparison of cervicothoracic and shoulder posture between healthy collegiate basketball players and students”	Dr. Zubia Veqar
6.	Yogesh Kumar	“Effect of plyometric and core stability training of running performance in distance runners”	Prof. M Ejaz Hussain
7.	Daljeet	“A Correlation Between core stability and athletic performance: An electromyographic study”	Dr. Saurabh Sharma
8.	Upasana Sharma	“Athletic Performance in Male Recreational Football Players of 12-15 Years with Flat Foot”	Dr. Pankaj Kumar Malik

Year: 2012-13

S. No.	Name	Topic	Supervisor
1.	Abhishek Shukla	Efficacy of inclined vs. plane plyometrics on dynamic balance, vertical jump and agility in collegiate volleyball players”	Dr. Saurabh Sharma
2.	Arti Kaushik	Correlation Between Latency of Transverse Abdominis and dynamic Balance-an EMG Study”	Dr. Saurabh Sharma
3.	Anjali Prajapati	“Comparison of Heart Rate Recovery (HRR) and Heart Rate (HRV) in between male soccer and field hockey Player: Effect of sub-maximal aerobic exercise”	Dr. M. Ejaz Hussain
4.	Eram Saleem	Energy Expenditure and Fatigue Levels in Different playing Position in Soccer”	Dr. M. Ejaz Hussain
5.	Bushra Tanveer	Effect of Short Term Agility Training on Gross Motor Development and Agility Competence in Pre Pubertal Children”	Dr. Zafar Azeem
6.	Kamran Ali	“Effect of plyometric training on Clay Versus on Muscle Tenderness, Jumping and Agility Ability in Field Hockey players”	Dr. Zafar Azeem
7.	Shagufta Imtiyaz	“To Compare the effect of Vibration Therapy and Massage in Prevention of Delayed Onset Muscle Soreness”	Dr. Zubia Veqar
8.	Sumbul Zaheer	“Effect of Prior Light Eccentric Exercise Versus Heat Preconditioning on Markers of Muscle Damage in Untrained Collegiate Males”	Dr. Jamal Ali Moiz
9.	Vasundhara Nagar	The Effect of Resistance and Mental Imagery Training on Balance in Recreation	Dr. Majumi Noohu

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		Basketball Players”	
10.	Zeeshan Hussain	“An Experimental Study to Compare the EMG Changes of Medial Gastrocnemius and Vastus Lateralis Muscles of Dominant LEG During Horizontal Walking and Uphill Running in Training in Training Male Football and Cricket Players”	Dr. Saurabh Sharma

Year: 2013-14

S. No.	Name	Topic	Supervisor
1.	Irshad Ahmad	EMG Activity profile of transverse abdominis and multifidus during bridging exercise variants in collegiate cricketers	Dr. Saurabh Sharma
2.	Md. Ghazi Ataulah	The effect of kinesio tape on HIP abductor strength and muscle performance in athletes with chronic ankle instability	Dr. Gagan Kapoor
3.	Md. Junaid Waheed	Electromyographic activity of selected LEG muscle in PES planus during uphill and downhill running	Dr. Moazzam Hussain Khan
4.	Prakash Jha	Acute effects of aerobic exercise and concurrent exercise on PSG sleep parameters	Dr. Zubia Veqar
5.	Rajani Kantam	Effect of two warm up programs on athletic performance in recreational soccer players	Dr. Zafar Azeem
6.	Sadaf Tanveer	Effect of eccentric strengthening versus standard rehabilitation in athletes after ACL reconstruction	Prof. M. Ejaz Hussain
7.	Safa Anwar	Relationship of percentage body fat and muscle mass with anaerobic and aerobic performance in collegiate athletes	Dr. M.M. Noohu
8.	Shalini Verma	Physical performance and markers of muscle damage after sports specific repeated sprints in male collegiate athletes: the repeated bout effect	Dr. Jamal Ali Moiz
9.	Tanzila Taj	An experimental study to compare the EMG activities and strength changes of dominant LEG muscles during different forms of exercises in football and volley ball players	Dr. Subhra Karmakar
10.	Zoya Khan	Effect of intermittent pneumatic compression therapy on heart rate variability in basketball player	Prof. M. Ejaz Hussain

### Training & Placement of Students:

A. Clinical Training : Our BPT 3<sup>rd</sup>. and 4<sup>th</sup> year and MPT students get clinical training at following hospital for four hour per day , group wise and by rotation from June-February.

1. St. Stephen’s Hospital, New Delhi

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2. Charak Palika Hospital, New Delhi
3. Guru Harkishan Hospital, New Delhi
4. Batra Hospita, New Delhi
5. Child Development Centre, Jamia Millia Islamia
6. Cheshire Home, New Delhi
7. Bara Hindu Rao Hospital, New Delhi
8. Pt.Madan Mohan Malviya Hospital, New Delhi
9. Fortis-Escorts Hospital, New Delhi
10. Delhi Society for Welfare of Specisl Children, Okhla Centre, New Delhi
11. Sports Injury Centre, Safdarjung Hospital, New Delhi (only for MPT)
12. Physiotherapy Clinic, CPRS, JMI.

B. Internship of BPT students: 20 students of our first batch of BPT pass outs undertook their internship at following hospitals and successfully completed it.

1. Northern-Railway, Central Hospital, New Delhi
2. R&R, Army Hospital, New Delhi.
3. St. Stephen's Hospital, New Delhi

29. Awards / recognitions received at the national level and international level by Faculty.

Prof. M. Ejaz Hussain received following:

S. No	Name of the Award	Awarding Authority	Year and other details
1.	Postdoctoral Fellowship for <b>two years</b>	International Centre Centre for Insect Physiology & Ecology (ICIPE), Nairobi- A UNDP-USAIR Institute	1985-1987
2.	National Associate ship – <b>One year</b>	Dept. of Biotechnology, GOI	1999-2000
3.	International Associate ship award for six months	Dept. of Biotechnology, GOI	2004
4.	Research Associate ship	Case western Reserve University, school of Medicine ,Ohio, USA	2004-05

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Pl refer ERD-

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31. Code of ethics for research followed by the departments: All the research projects/synopsis etc are being evaluated and approved by Institutional Ethical Committee of JMI as per ICMR ethical guidelines.

32. Student profile course-wise:

Name of the Course (refer to question no. 4)	Annual intake	Applications received	Selected	
			Male	Female
Bachelor of Physiotherapy	40			
2007-2008		1560	24	16
2008-2009		958	17	23
2009-2010		1055	14	26
2010-2011		755	13	27
2011-2012		855	12	28
2012-2013		648	14	26
Master in Physiotherapy	10			
2010-2011		185	3	7
2011-2012		87	3	7
2012-2013		135	4	6
Ph.D				
2010-2011		11	2	0
2011-2012		15	2	0
2012-2013		16	2	0

33. Diversity of students

Name of the Course (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BPT	25%	25%	50%	Nil
MPT	40%	20%	40%	Nil

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. NA.

35. It is a professional course and students do not generally try for civil services. NET/Gate is not held in Physiotherapy.

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### 36. Student progression

Student progression	Percentage against enrolled
UG to PG	40%
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	-so far no but we are trying -Most of our pass outs are getting employment in hospitals and private clinics
Entrepreneurs	

### 37. Diversity of staff

Percentage of faculty who are graduates	
of the same university	Nil
from other universities within the State	Nil
from universities from other States	100%
from universities outside the country	Nil

38. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period - NA

39. Present details of infrastructural facilities with regard to

- a) Library: Centre has a good library facility with a collection of nearly 1200 books in Physiotherapy, most of them are foreign publishers and they had to be imported.
- b) Internet facilities for staff and students: 100% for students and Faculty
- c) Total number of class rooms: Six (at present,), 4 more class rooms will be added soon. Our Building is under renovation
- d) Class rooms with ICT facility: All class rooms has ICT facility(ceiling mounted LCD projector, podium equipped with PC, mike and provision of OHP, black and white boards)
- e) Students' laboratories: 4  
 Exercise therapy Lab.: This lab. is used by UG/PG students for teaching exercise therapy, PT Orthopaedics, PT Neurology, PT Cardiopulmonary, PT Sports, PT Community Medicine etc. Main equipments are as follows :  
 Tread mill, Theraband, Multi station Therapeutic Gymnasium, cycle ergometer, dumbbell, barbells, medicine balls, balance board, physio ball, parallel bar, various types of walking aids, wheel chair etc

Electrotherapy Lab: this lab is utilized for teaching UG/PG students Electrotherapy modalities like ultrasound, shortwave diathermy, and Microwave diathermy. TENS, Laser, Electrical stimulator, UVR, IRR lamps, hydrocollator pack, paraffin wax bath etc.

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### Physiotherapy clinic:

1. The centre is running a Physiotherapy clinic (only OPD) from 9.30Am to 5 PM on all working days which provides physiotherapy services to students, staff and dependents of JMI staff .Our clinic is catering nearly 40-50 patients per day. This also provides hands-on training to our BPT 3<sup>rd</sup>, 4<sup>th</sup> and MPT students.
  2. Physiotherapy services to players of JMI sports team and interuniversity hockey tournament & National football tournament held at Jamia Millia Islamia, December 16 , 2011 to January 5, 2012.
  3. Fitness assessment of 55 students selected by SAI, JMI was done at the centre's Physiotherapy-Sports clinic April, 2011
- f) Research laboratories – Two
- a. Sleep research Lab:
  - b. Exercise Physiology research lab.:

### 40. List of doctoral, post-doctoral students and Research Associates

#### a) from the host university –

S. No.	Name of scholar	Title of Ph.D.	Date	Present position
1.	Zubia Veqar	Effect of interferential therapy & temperature on sleep parameters in Human subjects.	Registered 2009	Asst.Prof Centre for Phyiotherapy, JMI
2.	Jamal A.Moiz	Effect of addition of balance training to pulmonary Rehabilitation for patients with chronic obstructive pulmonary disease	Registered 2011	Asst.Prof. CPRS
3..	M.Majumi Noohu	Studies on the effect of Exercise interventions for prevention of Falls in community Dwelling Elderly adult fallers	Registered 2011	Asst.Prof. CPRS
4.	Saurabh Sharma	Effect of concurrent exercises on strength and metabolic parameters in Indian Athles	Registered 2012	Asst.Prof. CPRS
5.	Shahzada A.Rashid	Studies on the effect of resistance training on in tyo-II Diebetes p	Registered 2012	Physiotherapist
6.	Deepika Singla	Title yet to be finalised	Registered 2014	NON-Net Scholar
7.	Irshad Ahmad	Title yet to be finalised	Registered 2014	NON-Net Scholar
8.	Shalinin Verma	Title yet to be finalised	Registered 2014	NON-Net Scholar
9.	Kamran	Title yet to be finalised	Registered	NON-Net Scholar

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b) from other universities

S. No.	Name of scholar	Title of Ph.D.	Date	Present position
1.	Mahesh Kumar Seth	Evaluation of novel peptidomimics as ACEIs for antihypertensive activity using animal models of hypertension	Registered 2007	Scientist Ranbaxy Lab, Gurgaon
2.	Kapil Dev	Immunohistochemical and molecular study of Apoptotic regulators (Bcl-2, Bax) and Her-2/neu oncogene in breast cancer	Submitted 2012	Asst. Prof Dept. of Biotechnology, JMI
3.	M. Dilshad Manzar	Electrophysiological and immunological sleep studies in human subjects.	Registered 2010	SRF ICMR
4..	Unaise A.	Exercise interventions in the management of type-2 Diabetes in Indian population	Submitted 2012	JRF/UGC(NN) & Asst. Prof. MRIU

41. Number of post graduate students getting financial assistance from the university.

Unnaisa A. - JMI/UGC

Dilshad Manzar - SRF-ICMR

42. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. - No

43. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, At every two-three years curriculum is revised as per recent development in the area of study and it goes through committee of studies for approval

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Every class has two student class representative (one topper +one elected), one faculty is for each Class as class advisor, who regularly interact with students and feed back is again discussed in the departmental meeting

c. Alumni and employers on the programmes offered and how does the department utilize the feedback? NA

44. List the distinguished alumni of the department (maximum 10)- NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (that you have organized)

S. No	Name of the workshop / Special Lecture / Workshop Tutorial /	Name of the Expert	Year	Remarks
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**EVALUATIVE REPORT OF CENTRE FOR PHYSIOTHERAPY &  
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1.	<p><b>“Recent Advances in Physiotherapy &amp; Biomedical Sciences”</b></p> <p>1. Single event multilevel surgery in cerebral palsy</p> <p>2. Diabetes: Genesis and Chemical Signalling</p> <p>3. “Physical activity for Health: Implications in Type 2 Diabetes Management.”</p> <p>4., “Polysomnography and Sleep scoring”</p> <p>5. “Plasticity in therapy- induced cortical reorganization”</p> <p>6., Cardiopulmonary Rehabilitation”</p> <p>7. Antenatal and post natal care”</p> <p>8. Respiratory Renal Reflex”</p> <p>9. “Ion Channels, Human Diseases and Patch Clamp Technique.”</p> <p>10. “Recent advances in Sonographic interpretation”</p> <p>11., “Thrombosis and its Implications”</p> <p>12., V.P.Chest Institute, DU. “Allergy, allergen and immune response.”</p> <p>13., Hamdard University, ND., “Genetic basis of human diseases”.</p>	<p>1. Dr. Syed Shah Alam AIIMS</p> <p>Prof. M. Ejaz Hussain</p> <p>Dr. Unaise A (PT),</p> <p>Dr. Apar Jindal</p> <p>Dr. Ashu Bhasin (PT),</p> <p>Dr. Divya Mahajan (PT) S.J. Hosp</p> <p>Dr. Suneeta Sood (PT), Prof. K. Ravi , DU</p> <p>Dr. Nilofer Khan ,DRDO</p> <p>Dr. Midhat Hussain, MAMC</p> <p>Dr. Zahid Ashraf, DRDO</p> <p>Prof. M.K Aggarwal ,DU</p> <p>Dr. Salim Javed , Hamdard</p>	2012	
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**EVALUATIVE REPORT OF CENTRE FOR PHYSIOTHERAPY &  
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	14., MAMC ,ND. “How is Cadaver Preserved.?”	Dr. Riyazul Qamar Khan Moulana Azad Medical College		
	15.,Prev.Heath and Corporate Relation, ND, “Preventive Health”.	Dr. Anil Chaturvedi		
2.	1.Advances in Sleep Research,  2.Career Advancement in Physiotherapy,  3.Prevention of Sports Injuries,  4.Common Sports Injuries and its Mangement, ,  5.Biomechanical Research trends in Rehabilitation and Sports,  6.Concept and Application of Eccentric Exercise in Injury Management,  7.Sports training and Management : A Physiotherapist’s Perspective,  8. Exercise & Fitness Training for high performance Athelete,  9. Pulmonary Rehabilitation in	Prof. Subimal Datta, Boston,USA. Dr. Raju  Dr.P.S.M. Chandran, SAI  Dr.Farasat Hussain  Dr.Dhanjay Show ,DU  Dr.A.G.K Sinha , PUP  Dr.Henmant Juneja, DU  Prof.G.L Khanna ,MRIU  Dr.Vishal Bansal VPCI Dr.Jamal Ali Moiz  Dr.Deepak Talwar ,Metro Hospital,Noida	2011	

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	<p>COPD,</p> <p>10. Skeletal Muscle Dysfunction in COPD: Role of Exercise,</p> <p>11. COPD and its Management</p> <p>12. Arterial Blood Gas Analysis and its Interpretation,</p> <p>13. Coronary Heart Disease and Angioplasty,</p> <p>14. Cardiac Rehabilitation: Role of Exercise.</p> <p>15. Physiotherapy Management for ICU Patient.,</p>	<p>Dr. Shamim Akhtar , St Stephens Hosp</p> <p>Dr. Vineet Bhatia , Fortis Hosp.</p> <p>Dr. Mayank Shukla , Amity univ.</p> <p>Dr. Rajeev Agarwal, AIIMS</p>		
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EVALUATIVE REPORT OF CENTRE FOR PHYSIOTHERAPY &  
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3.	<ol style="list-style-type: none"> <li>1. Immunotoxin for cancer therapy-Concept Development,</li> <li>2. Scientific paper writing ,</li> <li>3. Current trends in physiotherapy practice in UK and Risk factors for cardiopulmonary dysfunctions,</li> <li>4. Physiology of Ageing,</li> <li>5. Psychologists perspective of Healthy Ageing</li> <li>6. Women &amp; Ageing : A social Concern,</li> <li>7. Nutrition and Healthy Ageing,</li> <li>8. Overview of medical aspects of Healthy Ageing</li> <li>9. Healthy ageing –A Psychiatrist’s view</li> <li>10. Healthy ageing –A physiotherapist’s perspective</li> <li>11. Healthy Ageing-A radiologist’s perspective,</li> </ol>	<p>Prof.R.S. Verma , IIT,Chennai Mr.lingou, UK Dr.R Jeyasundar,UK</p> <p>Prof. M. Nihal , LNMU</p> <p>Dr Naved Iqbal,, Dr Sabiha Hussain</p> <p>Dr Seema puri, DU</p> <p>Prof Vinod Kumar ,AIIMS</p> <p>Dr Saurabh Vatss ,RML Dr Kanchan Mittal (PT),,</p> <p>Dr.K.G.S Rana</p>	2010	
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4.	<p>1. Nextgen Research &amp; Teaching Tools : The Lab Tutor &amp; Lab chart Revolution</p> <p>2. National Dementia Strategy</p> <p>3. Worckshop on ‘3D Gait Analysis conducted</p> <p>4. Showcases Lab . demonstration &amp; training of physiological data acquisition system setup in the center</p>	<p>Dr. Peter Parslow (Australia)</p> <p>Dr. MM Jacob, ARDSI</p> <p>Dr. Peter Parslow (Australia)</p> <p>Dr. Binaca Brijnath ,Australia</p> <p>Dr. Y.P. Singh ,ARDSI</p>	2009	
	<p>5. “Alzheimer’ s Disease and Aging in India: Implications”</p> <p>6. “Medical Management of Alzheimer’ s Disease”</p> <p>7. “Care of Alzheimer’ s Patients”</p> <p>8. “Alzheimer’ s Scenario in India &amp; ARDSI activity”</p>	<p>Dr. K.S. Anand ,RML V.K.Khanna</p> <p>Dr. MM Jacob, ARDSI</p>		

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4.	<p>9. “Physiotherapy Management of Alzheimer’ s Patients</p> <p>10. “Role of Sleep in Memory Consolidation”</p> <p>11. “Aerobic Training: from Fitness Appraisal to Periodisation”</p> <p>12. “Psychological Preparation of Sportspersons”</p> <p>13. “Shoulder Impingement Syndrome: Causation and Management”</p> <p>14. “Knee Injuries and Their Management”</p> <p>15. “Shock Wave Therapy in Sports Health”</p> <p>16. “Heart Rate Training and the Overtraining Syndrome in Athletes”</p> <p>17. “Dietary Management for Sports Performance”</p>	<p>Dr. Majumi M. Noohu</p> <p>Dr. Sushil Jha ,JNU Prof. G.L. Khanna,MRIU</p> <p>Dr. Anuradha Solanki,SAI Dr. A.G.K. Sinha,PUP</p> <p>Prof. H.L. Nag,AIIMS Dr. Shaurabh Sharma</p> <p>Dr. Shweta shenoy,GNDU,</p> <p>Dr. Priti Rishi Lal ,SAI</p>		
5.	<p>1. Physiotherapy an emerging Profession</p> <p>2. Laser &amp; its application in Physical therapy</p> <p>3. Gupta Importance of Suspension techniques in Physiotherapy</p>	<p>Dr.Rajeev Agarwal, AIIMS</p> <p>Dr.Deepak , Holy Family</p> <p>Dr.Priyanka</p>	2008	

45. List the teaching methods adopted by the faculty for different programmes (UG/ PG/P hD.).

- Black Board/White Board
- OHP
- Power point

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- Assignments
- Term paper
- Group discussion
- Seminars/symposium/invited lectures
- Participation of whole class in national/international conference
- Workshops/hands on training by experts
- Clinical posting in various multispecialty hospitals
- Internship in various multispecialty hospitals
- clinical case presentation
- Lab. practice
- Lab. demonstration
- Hospital visit
- Visit to others institutions of higher learning

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? N/A
47. Highlight the participation of students and faculty in extension activities. N/A
48. Give details of “beyond syllabus scholarly activities” of the department. N/A
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NO
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. N/A
51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

1. The first and only central University in India offering physiotherapy program
2. Offering physiotherapy courses at undergraduate , post graduate and Doctoral levels
3. Having a wide network of collaboration with different hospitals for clinical posting of students
4. Sophisticated equipments for teaching, research and patient care
5. Functional physiotherapy clinic run by qualified physiotherapists

Weakness:

1. Shortage of regular faculty leading to dependency on visiting faculty.
2. There no teaching hospital associated with the centre hence our students have to go in various other hospitals in Delhi
3. Shortage of infrastructure facility as per the requirement of the programme.
4. Lack of awareness among the students and in the society about the impotence of the discipline, due to which we are not able to attract creamy layer students.
5. Lack of central physiotherapy council to regulate the discipline in terms of quality education and protecting the interest of the physiotherapist professionals

## EVALUATIVE REPORT OF CENTRE FOR PHYSIOTHERAPY & REHABILITATION SCIENCES

### Opportunities:

1. Research collaboration with different hospitals / research institutes
2. Centre can grow as a national referral centre in physiotherapy
3. Centre can mobilized lot of grants from various funding agencies for the development of research, teaching and providing clinical service in special areas.
4. Outreach activities in community specially rural areas
5. To initiate Specialized clinics in Geriatric care and Women's health

### Challenges:

1. Lack of council to regulate the physiotherapy profession, and unavailability of specific guidelines for teaching and clinical practice
2. To Start post graduate programmes in other specialty such as orthopedics, neurology and cardiopulmonary , geriatrics, pediatrics, women's health, community medicine etc
3. To develop qualified human resource and to trained all faculty members leading to PhD degree in order to improve quality teaching, research and clinic.
4. To motivate young post graduates to join research and higher learning in India and abroad in physiotherapy and other areas of health sciences
5. Availability of large number of unqualified and untrained physiotherapist produced by mushroom growth of private physiotherapy colleges in the country.

### 52. Future plans of the department.

- To Consolidate and strengthen the existing programme and provide quality education and clinical training
- To develop adequate human resource for teaching, research and clinic
- To develop state of the art teaching, research laboratory as per international standards
- To run efficient, smart and state of the art clinical facility having specialty clinics in all area of Physiotherapy
- To grow as national resource & referral centre for teaching ,research and clinical service

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**Annexure -ERD-II  
EVALUATIVE REPORT OF CENTRE FOR PHYSIOTHERAPY &  
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<b>S. No.</b>	<b>Name of the conference / seminar /workshop</b>	<b>Funding &amp; sponsoring authorities</b>	<b>Year Remarks</b>
1	One day Workshop on Advanced EEG (3 D Localization of Sources) & Biofeedback Solution	JMI/UGC	2014
2	2 day Workshop On “Neurodevelopment Treatment (NDT)”	JMI/UGC	2014
3	2 days Workshop On “Kinesiotaping”	JMI/UGC	2013
4	Workshop Notice “Thera band exercises training”	JMI/UGC	2013
5	<u>Workshop Notice “Exercise Testing and Prescription”</u>	JMI/UGC	2013
6	Workshop on Kinanthropometry – a new horizon in Sports Physiotherapy, Centre for Physiotherapy	JMI/UGC	2013
7	Workshop on Rehabilitation of hand and Upper Limb after Nerve Injury, Centre for Physiotherapy and Rehabilitation Sciences	JMI/UGC	2013
8	SEMINAR on Gender Sensitization Organized by Centre for Physiotherapy and Rehabilitation Sciences	JMI/UGC	2013
9	Manual Therapy Workshop-2013	JMI/UGC	2013
10	National Symposium on Neurological Disorders and Neuro-rehabilitation organised by Centre for Physiotherapy and Rehabilitation Sciences	JMI/UGC	2013
11	2-day WORKSHOP ON RESEARCH METHODOLOGY AND BIostatISTICS	JMI/UGC	
12	“Recent Advances in Physiotherapy& Biomedical Sciences”–two days	JMI/UGC	2012



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13	Workshop on Spinal Rehabilitation conducted by Dr Prakash Shroff, Mumbai	JMI/UGC	2012
14	One day workshop on Anthropometric measurement in Sports by Dr. Shamal Kolay, GNDU, Amritsar	JMI/UGC	2012
15	Workshop on Dry needling techniques in Physiotherapy conducted by Dr Prakash Shroff, Mumbai	JMI/UGC	2012
16	National Symposium on “Cardiopulmonary Rehabilitation”	JMI/UGC	2011
17	5days-ManualTherapyworkshoponSpinal Mobilization–MTS-1conductedby Dr. Vikas Johri, Michigan, USA	JMI/UGC	2011
18	4days-ManualTherapy workshop on Mobilization of extremities,MTE-1conducted by Dr. Vikas Johri, Michigan, USA	JMI/UGC	2011
19	2daysWorkshop on Taping techniques in Sports conducted by Dr Hemant Juneja, Amar Jyoti, DU	JMI/UGC	2011
20	National Symposium on Sports Medicine and Physiotherapy	JMI/UGC	2010
21	Workshop on Nextgen Research &Teaching Tools: The Lab Tutor &Lab chart Revolution by Dr Peter Parlow,Australia	JMI/UGC	2010
22	Workshop on‘3DGaitAnalysis conducted by Hospimedica	JMI/UGC	2009
23	Two days National Consultative meeting on National Dementia Strategy in collaboration with ARDSI	JMI/UGC	2009
24	One day National Symposium on Sports injury &Management	JMI/UGC	2009

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**Annexure - ERD-III**

List of Ph. Ds registered (Centre for Physiotherapy & Rehabilitation Sciences)

<b>S. No.</b>	<b>Name of scholar</b>	<b>Title of Ph.D.</b>	<b>Date</b>	<b>Present position</b>
1	Jamal A.Moiz	Effect of addition of balance training to pulmonary Rehabilitation for patients with chronic obstructive pulmonary disease	Registered 2011	Asst.Prof. CPRS
2	M.Majumi Noohu	Studies on the effect of Exercise interventions for prevention of Falls in community Dwelling Elderly adult fallers	Registered 2011	Asst.Prof. CPRS
3	Saurabh Sharma	Effect of concurrent exercises on strength and metabolic parameters in Indian Athletes	Registered 2012	Asst.Prof. CPRS
4	Shahzada A.Rashid	Studies on the effect of resistance training on in tyo-II Diebetes p	Registered 2012	Physiotherapist
5.	Deepika Singla	Topic yet to be decided	Registered in 2014	Non NET scholar
6.	Kamran Ali	Topic yet to be decided	Registered in 2014	Non NET scholar
7.	Irshad Ahmad	Topic yet to be decided	Registered in 2014	Non NET scholar
8.	Shalini Verma	Topic yet to be decided	Registered in 2014	Non NET scholar