



Dayananda Sagar
University Bengaluru

COLLEGE OF PHYSIOTHERAPY
SCHOOL OF HEALTH SCIENCES
Shavige Malleshshwara Hills
Kumaraswamy Layout
Bangalore - 560078

LABORATORY VISIT AND TRAINING PROGRAM

**Venue-Bangalore Institute of Movement Research and Analysis (BIMRA)
Rainbow Children's Hospital, Marathahalli, Bangalore.**

Date- 06th & 08th July 2022

Report

Bangalore Institute of Movement Research & Analysis (BIMRA) is a state-of-the-art 3D Gait Analysis laboratory for the analysis of children and adults with movement disorders. BIMRA specializes in 3D gait analysis of children with cerebral palsy (BTS Smart DX-300 system with 6 infra-red cameras, 2 force platforms, 6-channel dynamic EMG and 2 BTS VIXTA cameras for video analysis) and Running Analysis of athletes/ sports persons (3D Gait System with 3 infra-red Vicon cameras and specialised software from University of Calgary, Canada).

BIMRA has been in operation since 2014 and has conducted nearly 1000 gait analysis for both gait and running analysis purposes. At present, BIMRA is based at Rainbow Children's Hospital, Marathahalli, Bangalore. BIMRA is headed by Dr Jayanth S Sampath, Consultant Paediatric Orthopaedic Surgeon who has 20 years of experience in the field of 3D gait analysis. The day-to-day operations of the lab are managed by Dr. Suyameendra Kulkarni, Physical Therapist with 14 years of experience in therapy and 7 years experience in gait analysis, biomechanics and kinesiology. BIMRA has conducted 3 gait courses in 2014, 2016 and 2018 with over 500 delegates attending the programmes. In addition, we BIMRA has conducted several webinars for the benefit of students and practicing therapists. BIMRA is active in research, whose collaborations include DEBEL and IISc Bangalore, in addition to in-house research. BIMRA has supported internships for MPT Biomechanics students of 1 month duration.

The College of physiotherapy, DSU had organized a 2 day laboratory visit and training program for its post graduate students under the supervision of Dr. Srihari Sharma. Associate Professor, COPT, DSU. The program was scheduled on 6th & 8th of July 2022 at BIMRA, Rainbow Children's Hospital Marathahalli, Bangalore for 2 separate batches of MPT students.

The event comprised of an overview of gait, its determinants and the conventional method of gait analysis led by Dr. Suyameendra Kulkarni. This was followed by an orientation to BIMRA gait laboratory and the significance of 3D gait analysis and the future of gait

analysis led by Dr. Jayanth S Sampath. The practical session included pre gait analysis assessment, (including history, range of motion, body composition and anthropometry) demonstration of 3 D gait analysis and interpretation 3 D gait analysis results and was facilitated by Dr. Suyameendra Kulkarni. Overall the program was extremely beneficial for the MPT students and a new learning experience for all the participants.

The College of Physiotherapy, DSU has future plans to sign a MoU with BIMRA for possible certificate courses in 3D Gait analysis, student internship programs and collaborative research between the two organizations.

No. of faculty involved: 01 (Dr. Srihari Sharma K N)

No. of PG students participated: 16

1.	Anusha M BS
2.	Bikal Dangi
3.	Namitha S
4.	Prajna Poonacha
5.	Pragya Pokharel
6.	Tasmiya
7.	Manasa
8.	Naina Joshi
9.	Sneha
10.	Krupa Waghchoure
11.	Nidhi singh
12.	Nihal mishra
13.	Sai keerthana setty
14.	Shreya jayanth
15.	Shreyas
16.	Shwetha sachin hoshi



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College of Physiotherapy,
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Bangalore 560033



Laboratory visit and training program

Venue: **Bangalore Institute of Movement Research and Analysis (BIMRA)**
Rainbow Children's Hospital, Marathahalli, Bangalore.
(BIMRA is a state-of-the-art 3D Gait Analysis laboratory for the analysis of children and adults with movement disorders)
Date: **06 & 08 July 2022**
Time : **10.30 Am**
Eligible Participants: 1st & 2nd Year MPT students of COPT, DSU

Orientation to Gait Lab and overview of the Gait Analysis



Dr. Jayanth S Sampath
Consultant Paediatric Orthopaedic Surgeon
Expert in the field of 3D gait analysis

Kinesiology of Gait and demonstration of 3D Gait Analysis



Mr. Suyameendra Kulkarni
Physical Therapist
Experienced in gait analysis and biomechanics

Program coordinator:
Dr. Srihari Sharma K N, MPT, PhD
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Bangalore 560011
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