



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI)

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A++' Accredited by NAAC

Sector-1, Kamothe, Navi Mumbai-410 209 | Tel.: 022-27437829, 27437620

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**Number of Student's Projects of B.P.O Students in the Academic year (2021-22)**

SR NO.	TITLE OF THE PROJECT	NAME OF THE AUTHOR ( STUDENT)	NAME OF THE GUIDE (TEACHER)
01.	Design and development of dynamic scoliosis brace	Gursimran Kaur Bal	Dr. Pratiksha Shelar
02.	Design of trac-splint for wrist and forearm	Esha Sharad Malik	Dr.Uttara Deshmukh
03.	Design and development of pediatric dynamic brace for congenital torticollis	Prajakta Girish Tari	Dr.Uttara Deshmukh
04.	Design and development of custom molded PTB brace for tibial and fibular fracture	Hitesh Jagdish Chorge	Dr.Uttara Deshmukh
05.	Design and development of load-shifter ankle foot orthosis	Rushikesh Rajgude	Dr.Uttara Deshmukh
06.	Design and development of dynamic cervical orthosis for dropped head	Snehal Tulshiram Rane	Dr. Pratiksha Shelar
07.	Adjustable Ankle Joint Foot Orthosis	Lav Kumar	Dr. Deepshikha Raut
08.	Design and development of pectus brace for pectuscarinatum deformity.	Shital Bhaskar Gaikwad	Dr. Pratiksha Shelar
09.	Design and development of off-loading leg brace	Thevarkattil Sneha	Dr. Pratiksha Shelar
10.	Design and development of cerebral palsy orthotic walker	Vignesh Gundu Bidre	Dr.Uttara Deshmukh
11.	Design and development of modified foot drop brace	Shaifa Muner ahmed Khan	Dr.Uttara Deshmukh
12.	Design and development of standing spinal casting frame for spinal orthosis	Apeksha Vilas Ubhare	Dr. Pratiksha Shelar

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13.	Motorized hand orthosis for stroke	Surbhi Gurudas Waghate	Dr. Uttara Deshmukh
14.	Design and development of modified dynamic response prosthetic foot	Akhil Sunny	Dr. Uttara Deshmukh
15.	Design and development of modified power knee cap stabilizer	Siddhesh Mali	Dr. Pratiksha Shelar
16.	Design and development of swimming prosthesis for Transtibial amputee	Shikha Manoj Garg	Dr. Pratiksha Shelar
17.	Design of flexion assist dynamic splint for metatarsophalangeal joint	Pradnya Ramchandra Gawde	Dr. Uttara Deshmukh
18.	PES appraisal appliance	Shivam Ashok Pandey	Dr. Pratiksha Shelar
19.	Design and development of adjustable socket for transtibial prosthesis	Rasika Ravindra Gurav	Dr. Pratiksha Shelar
20.	Design and development of univarsal unloader knee brace	S Abu Thalib	Dr. Uttara Deshmukh
1.	To evaluate the efficacy of the device.	Namrata Shinde	Dr. Uttara Deshmukh
2.	AFO with Posterior Adjustable Dynamic Strap	Suraj Nirmal	Dr. Uttara Deshmukh

*Uttara Deshmukh*

Dr. Uttara Deshmukh (P&O)  
Associate Professor,  
Head of the Department,  
MGM Institute's University Department of Prosthetics and Orthotics,  
Sector-01, Kamothe, Navi Mumbai.

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



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# **PROGRESS REPORT OF FINAL YEAR STUDENT'S PROJRCTS IN THE ACDEMIC YEAR (2021-2022)**



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### **Number of Student's Projects of B.P.O Students in the Academic year (2021-22)**

MGM Institute's University Department of Prosthetics & Orthotics is a constituent unit of MGM Institute of Health Sciences was started Bachelor in Prosthetics & Orthotics Programme (4.5 years) by the Affiliation of Rehabilitation council of India (RCI) in 2016 for development of specialized health care professionals which combines a unique blend of clinical & technological skills of Prosthesis & Orthosis for development of Divyangjan in the society.

The B.P.O Students have project work as a subject in their IV year B.P.O curriculum as per the guidelines laid by RCI (Rehabilitation Council of India), the Statutory Body. Under this subject they need to do some project of their own ideas which can be a prototype or it can be implemented on patients.

As per RCI guidelines the student has to take a project work under the supervision of guide, Accordingly the students were well informed about the project work & the rules and regulations about the project in the month of September 2021.

The students choose their area of interest & accordingly the review of literature along with guide in the month of October 2021.

The topics of the project work were finalized in the last week October 2021.

After deciding the topics, the students started working in the direction of porotype model & they presented the project work at the Institutional level in the month of November 2021.

Then with all necessary corrections MGMIUDPO submitted the Project work proposal to the Scientific Advisory Committee (SAC) in the third week of January 2022.



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**Number of Student's Projects of B.P.O Students in the Academic year (2021-22)**

For the approval of the proposed projects in Scientific Advisory Committee (SAC) meeting was held on 14<sup>th</sup> March 2022 in the presence of Dr. Bhoomika D Swawant (PT), Dr. Rahul Sadashiv Bawnkule, Research Advisory member & Biostatistian, Dr. Uttara Deshmukh (P&O) Guide & HOD, MGMIUDPO & Dr. Pratiksha Shelar (P&O), Guide & Demonstrator, MGMIUDPO.

All students presented their projects in front of the SAC Members in the format of Power point presentation & demonstrated the model which they have prepared.

The members of the Scientific Advisory Committee (SAC) recommended some changes after the presentation. As per advised by them, students rectified the points in the project.

As per RCI guidelines the students have submitted the projects to the Institute in the softcopy format. The projects were thoroughly checked by the respected guides & finally by the Head of the Department in the Month of June-2022 during the 2<sup>nd</sup> Internal Assessment examination.

At the time of Final Year Examination (August 2022 for regular Batch & Casual Batch) students presented their project in front of the External & Internal examiner & submitted black book and the Prototype model to the Department.

On the basis of their knowledge & effectiveness of the project work & presentation skills examiners gave marks in the project work.

**Dr. Uttara Deshmukh (P&O)**

Associate Professor,

Head of the Department,

MGM Institute's University Department of Prosthetics and Orthotics,

Sector-01, Kamothe, Navi Mumbai.

**Dr. Uttara Deshmukh (P & O),**

H. O. D. In-Charge,

**MGM Institute's University Department  
of Prosthetics and Orthotics,**

Kamothe, Navi Mumbai.



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**FINAL YEAR  
STUDENT'S PROJECT  
BOOK DETAILS  
IN THE  
ACADEMIC  
YEAR  
(2021-2022)**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**S ABU THALIB**

**(IV BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF UNIVERSAL  
UNLOADER KNEE BRACE”**



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## **CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF UNIVERSAL UNLOADER KNEE  
BRACE ”**

Has been carried out by:

Mr. S Abu Thalib

PR Number (11810600022)

Class Roll Number (MGMUDPO201820)

BPO IV

Under my supervision in the partial fulfillment of the requirement for the award  
of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the  
academic year 2020.

Guide

**Head of the Department,**  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai





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## **EXAMINER CERTIFICATION**

This project report of

**"S Abu Thalib"**

Entitled

**"DESIGN AND DEVELOPMENT OF UNIVERSAL UNLOADER KNEE  
BRACE"**

Is approved and acceptable in quality and form.

*Chittaran  
Rashmi  
13/08/2022*

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Internal examiner

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External examiner

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED BY**  
**VIGHNESH GUNDU BIDRE**  
**(IV YEAR BPO)**

**ON THE TOPIC**

**“Design & Development Of Cerebral Palsy Orthotic  
Walker”**



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### **CERTIFICATE**

This is to certify that, the project entitled

## **"Design & Development of Cerebral Palsy Orthotic Walker"**

Has been carried out by:  
**Mr. Vighnesh Gundu Bidre**  
PR Number  
**(1181060023)**

Under my supervision in the partial fulfillment of the requirement for the award of degree of **BACHELOR IN PROSTHETICS ORTHOTICS (BPO)** during the academic year 2020.

**Guide**

**Head of the Department**  
**Dr. Uttara Deshmukh (P & O),**  
H. O. D. In-Charge,  
**MGM Institute's University Department**  
**of Prosthetics and Orthotics,**  
Kamothe, Navi Mumbai.



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### **EXAMINER CERTIFICATION**

This project report of

**“Vighnesh Gundu Bidre”**

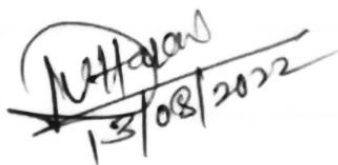
Entitled

**“Design & Development of Cerebral Palsy Orthotic Walker.”**

is approved and acceptable in quality and form.

---

**Internal Examiner**

  
13/08/2022

---

**External Examiner**



**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**NAMRATA SHINDE**

**(IV YEAR BPO)**

**ON**

**“To Evaluate The Efficacy Of The Device”**



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**CERTIFICATE**

This is to certify that, the project entitled

**“To Evaluate The Efficacy Of The Device”**

has been carried out by:

Ms. Namrata Nagesh Shinde

PR Number (11710600007)

Class Roll Number (MGMUDPO201821)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of  
**BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2021.

**Guide**

**Head of the Department**  
**Dr. Uttara Deshmukh (P & O),**  
H. O. D. In-Charge,  
**MGM Institute's University Department**  
**of Prosthetics and Orthotics,**  
Kamothe, Navi Mumbai.



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### **EXAMINER CERTIFICATION**

This project report of

**“Namrata Nagesh Shinde”**

**“To Evaluate The Efficacy Of The Device”**

Is approved and acceptable in quality and form

*Namrata Nagesh Shinde*  
13/08/2022

**Internal Examiner**

*[Signature]*

**External Examiner**



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**PROJECT SUBMITTED**

**BY**

**RASIKA RAVINDRA GURAV**

**(IV BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF  
ADJUSTABLE SOCKET FOR  
TRANSTIBIAL PROSTHESIS”**





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## CERTIFICATE

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF ADJUSTABLE SOCKET  
FOR TRANSTIBIAL PROSTHESIS”**

Has been carried out by

Ms. Rasika Ravindra Gurav

PR Number (11810600005)

Class Roll Number (MGMUDPO201805)

BPO IV

Under my supervision in the partial fulfillment of the requirement for the award of degree of **Bachelor in Prosthetics and Orthotics (BPO)** during the academic year 2021-2022.

*Shelar*

Guide

*Uttara Deshmukh*

Head of the Department  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



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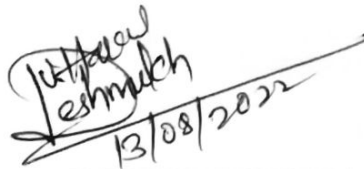
This project report of

**“RASIKA RAVINDRA GURAV”**

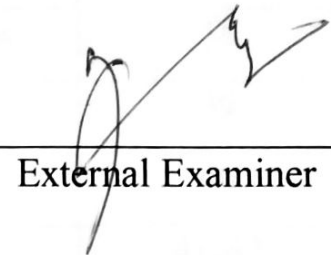
Entitled

**“DESIGN AND DEVELOPMENT OF ADJUSTABLE  
SOCKET FOR TRANSTIBIAL PROSTHESIS”**

Is approved and acceptable in quality and form.

  
13/08/2022

Internal Examiner



External Examiner

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**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**SURBHI GURUDAS WAGHATE**

**(IV YEAR BPO)**

**ON**

**“MOTORIZED HAND ORTHOSIS FOR STROKE”**



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**CERTIFICATE**

This is to certify that, the project entitled

**“MOTORIZED HAND ORTHOSIS FOR STROKE”**

has been carried out by:

Ms. Surbhi Gurudas Waghate

PR Number

(11810600020)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of  
**BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2022.

**Guide**

**Head of the Department**

**Dr. Uttara Deshmukh (P & O),**  
H. O. D. In-Charge,  
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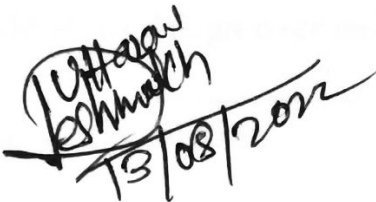
This project report of

**“Surbhi Gurudas Waghate”**

Entitled

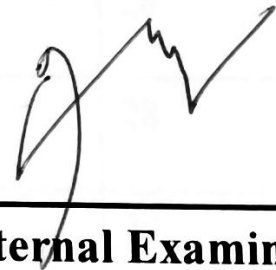
**“Motorized Hand Orthosis For Stroke”**

Is approved and acceptable in quality and form.

  
13/08/2022

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**Internal Examiner**



---

**External Examiner**



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**PROJECT SUBMITTED**

by

**THEVARKATTIL SNEHA**

**(IV YEAR BPO)**

ON

**“DESIGN AND DEVELOPMENT OF  
OFF-LOADING LEG BRACE”**



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## **CERTIFICATE**

This is to certify that, the project entitled  
**“Design and Development of Off-loading Leg Brace”**

has been carried out by

Ms. Thevar Kattil Sneha

PR Number (11810600013)

Class Roll Number (MGMUDPO201813)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for  
the award of the degree of **BACHELOR in Prosthetics and  
Orthotics (BPO)** during the academic year 2021-22.

*Shelar .*

---

**Guide**

*Uttara Deshmukh*

---

**Head of the Department**

Dr. Uttara Deshmukh (P & O),

H. O. D. In-Charge,

MGM Institute's University Department

of Prosthetics and Orthotics,

Kamothe, Navi Mumbai.



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## **EXAMINER CERTIFICATION**

This project report of  
**“Thevar Kattil Sneha ”**

Entitled

**“Design and Development of Off-loading Leg Brace”**

Are approved and acceptable in quality and form.

*12/08/2022*  
*13/08/2022*

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**Internal Examiner**

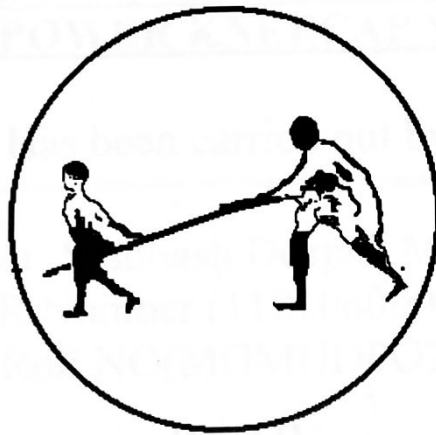
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**External Examiner**



**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY**  
**DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**SIDDHESH DEEPAK MALI**  
**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF**  
**MODIFIED POWER KNEE CAP**  
**STABILIZER”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS &  
ORTHOTICS**

(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI)  
(Deemed to be University u/s 3 of UGC Act, 1956)

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Email : [mgmudpo@mgmuhs.com](mailto:mgmudpo@mgmuhs.com) | Website : [www.mgmudpo.edu.in](http://www.mgmudpo.edu.in)

**CERTIFICATE**

This is to certify that the project entitled

**DESIGN AND DEVELOPMENT OF  
MODIFIED POWER KNEECAP STABILIZER**

Has been carried out by:

Mr. Siddhesh Deepak Mali

PR Number (11810600008)

Class Roll NO(MGMUDPO201808)

BPO IV

Under my supervision in the partial fulfillment of the requirement for  
the award of degree of **BACHELOR in Prosthetics and Orthotics**  
(BPO) during the academic year 2022.

*Shelar .*

Guide

*Uttara Deshmukh*

Head of the Department  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



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**EXAMINER CERTIFICATION**

This project report of

**“Siddhesh Deepak Mali”**

Entitled

**“DESIGN AND DEVELOPMENT OF MODIFIED POWER KNEE CAP  
STABILIZER”**

Is approved and acceptable in quality and form.

*Siddhesh Deepak Mali*  
*13/08/2022*

---

**Internal Examiner**

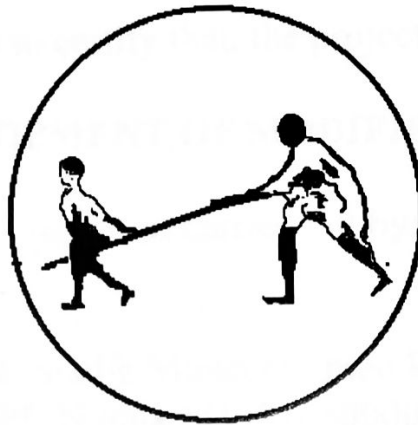
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**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
PROSTHETICS AND ORTHOTICS  
KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**SHAIFA MUNEERAHMED KHAN**

**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF MODIFIED FOOT  
DROP BRACE”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS &  
ORTHOTICS**  
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES, NAVI  
MUMBAI)

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**CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF MODIFIED FOOT DROP BRACE”**

has been carried out by:

Ms. Shaifa MuneerAhmed Khan

PR Number (11810600006)

Class Roll Number (MGMUDPO201806)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of  
**BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2022.

**Guide**

**Head of the Department**

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



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**EXAMINER CERTIFICATION**

This project report of

**“Shaifa MuneerAhmed Khan”**

Entitled

**“Design and Development of Modified Foot Drop Brace”**

*Dr. Ashish  
13/08/2022*

**Internal Examiner**

*[Signature]*

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT  
OF PROSTHETICS AND ORTHOTICS  
KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**  
**BY**  
**APEKSHA VILAS UBHARE**  
**(IV BPO)**  
**ON**

**“DESIGN AND DEVELOPMENT OF  
STANDING SPINAL CASTING FRAME  
FOR SPINAL ORTHOSIS.”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF STANDING SPINAL CASTING  
FRAME FOR SPINAL ORTHOSES”**

Has been carried out by:

Ms. Apeksha Vilas Ubhare

PR Number (11810600017)

Class Roll Number (MGMUDPO201816)

BPO IV

Under my supervision in the partial fulfillment of the requirement for the award of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2021-2022.

*Shelal*

**Guide**

*Uttara Deshmukh*

**Head of the Department**

**Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,**

**MGM Institute's University Department  
of Prosthetics and Orthotics,**

**Kamothe, Navi Mumbai.**





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## **EXAMINER CERTIFICATION**

This project report of

**“Apeksha Vilas Ubhare”**

Entitled

**“DESIGN AND DEVELOPMENT OF STANDING SPINAL CASTING FRAME  
FOR SPINAL ORTHOSES”**

Is approved and acceptable in quality and form.

*Pooja  
Reshmish  
13/08/2022*

---

**Internal Examiner**

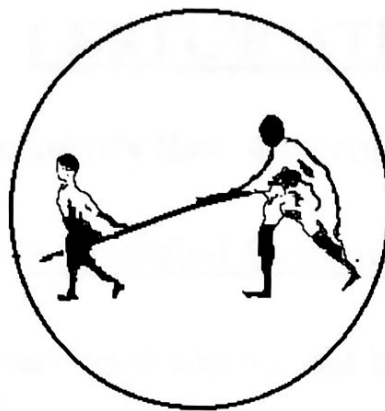
*[Signature]*

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**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**AKHIL SUNNY**

**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF MODIFIED  
DYNAMIC RESPONSE PROSTHETIC FOOT”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **CERTIFICATE**

This is to certify that, the project entitled

**“Design and Development of Modified Dynamic Response Prosthetic Foot”**

has been carried out by:

Mr. Akhil Sunny

PR Number (11810600001)

Class Roll Number (MGMUDPO201801)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2021-22.

**Guide**

**Head of the Department**

**Dr. Uttara Deshmukh (P & O),**  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



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## **EXAMINER CERTIFICATION**

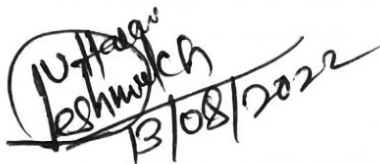
This project report of

**“Akhil Sunny”**

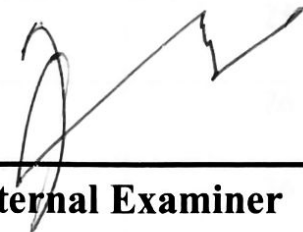
Entitled

**“Design And Development Of Modified Dynamic Response Prosthetic Foot”**

is approved and acceptable in quality and form.

  
10/08/2022

**Internal Examiner**



**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
PROSTHETICS AND ORTHOTICS  
KAMOTHE , NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**PRADNYA RAMCHANDRA GAWDE**

**(IV YEAR BPO )**

**ON THE TOPIC**

**“DESIGN OF FLEXION ASSIST DYNAMIC SPLINT FOR MTP  
(METATARSOPHALANGEAL ) JOINT**



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**CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN OF FLEXION ASSIST DYNAMIC SPLINT  
FOR MTP  
(METATARSOPHALANGEAL) JOINT”.**

*has been carried out by:*

Ms. Pradnya Ramchandra Gawde  
PR Number  
(11810600004)  
Class Roll Number.  
(MGMUDPO201804) BPO IV year

Under my supervision in the partial fulfillment of the requirement for the  
award of degree of **BACHELOR IN PROSTHETICS ORTHOTICS (BPO)**  
during the academic year 2020 - 2022

*Uttara  
Deshmukh*

Guide

*Uttara  
Deshmukh*

Head of the Department  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **EXAMINER CERTIFICATION**

This project report of

**“Pradnya R Gawde ”**

Entitled

**“Design of Flexion Assist Dynamic Splint for MTP (Metatarsophalangeal) joint.”**

is approved and acceptable in quality and form.

*16/08/2022*  
*Shivraj*  
*13/08/22*

**Internal Examiner**

*[Signature]*

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**SHITAL BHASKAR GAIKWAD**

**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF PECTUS BRACE  
FOR PACTUS CARINATUM DEFORMITY”**





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**Email: mgmudpo@mgmuhs.com | Website: www.mgmudpo.edu.in**

## **CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF PECTUS BRACE FOR PECTUS  
 CARINATUM DEFORMITY”**

has been carried out by:

Ms. Shital Bhaskar Gaikwad

PR Number (1101600014)

Class Roll Number (MGMUDPO201701)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award  
 of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the  
 academic year 2021-22

*Shelas*

**Guide**

*Uttara Deshmukh*

**Head of the Department,**  
 Dr. Uttara Deshmukh (P & O),  
 H. O. D. In-Charge,  
 MGM Institute's University Department  
 of Prosthetics and Orthotics,  
 Kamothe, Navi Mumbai - 410 209.

INDEX



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**Email: mgmudpo@mgmuhs.com | Website: www.mgmudpo.edu.in**

## **EXAMINER CERTIFICATION**

This project report of

**“Shital Bhaskar Gaikwad”**

Entitled

**“DESIGN AND DEVELOPMENT OF PECTUS BRACE FOR PECTUS  
CARINATUM DEFORMITY”**

Is approved and acceptable in quality and form.

*Shital Gaikwad*  
*13/08/2022*

**Internal Examiner**

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**SHIKHA MANOJ GARG**

**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF SWIMMING PROSTHESIS FOR TRANS-  
TIBIAL AMPUTEE”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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**Email: mgmudpo@mgmuhs.com | Website: www.mgmudpo.edu.in**

**CERTIFICATE**

This is to certify that, the project entitled

**"DESIGN AND DEVELOPMENT OF SWIMMING PROSTHESIS FOR TRANS-TIBIAL PROSTHESIS "**

has been carried out by:

Mr. Shikha Manoj garg  
PR Number (11010600018)  
Class Roll Number (MGMUDPO201817)  
BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2022.

*Shelias*

**Guide**

*Uttara Deshmukh*

**Head of the Department**

**Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.**

INDEX



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**Email: mgmudpo@mgmuhs.com | Website: www.mgmudpo.edu.in**

## **EXAMINER CERTIFICATION**


This project report of

**“Shikha Manoj Garg ”**

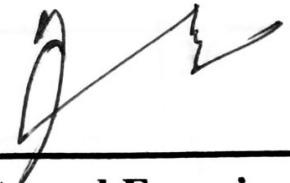
Entitled

**“DESIGN AND DEVELOPMENT OF SWIMMING PROSTHESIS FOR TRANS-TIBIAL AMPUTEE”**

Is approved and acceptable in quality and form.

  
13/08/2022

**Internal Examiner**



**External Examiner**

*MAHATMA GANDHI MISSION'S*  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
PROSTHETICS AND ORTHOTICS  
KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**Shivam Ashok Pandey**

**(IV YEAR BPO)**

*ON THE TOPIC*

**"PES APPRAISAL APPLIANCE"**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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**CERTIFICATE**

This is to certify that, the project entitled

**"PES APPRAISAL APPLIANCE"**

*Has been carried out by:*

Mr. Shivam Ashok Pandey

PR Number

(11810600010)

Under my supervision in the partial fulfillment of the requirement for  
the award of degree of **BACHELOR IN PROSTHETICS ORTHOTICS**  
(BPO) during the academic year 2020.

*Shelas*

Guide

*Uttara Deshmukh*

Head of the Department

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **EXAMINER CERTIFICATION**

This project report of

**"Shivam Ashok Pandey"**

Entitled

**"PES APPRAISAL APPLIANCE"**

is approved and acceptable in quality and form.

*Dr. Anurag  
Kishore  
13/08/2022*

---

**Internal Examiner**

*[Signature]*

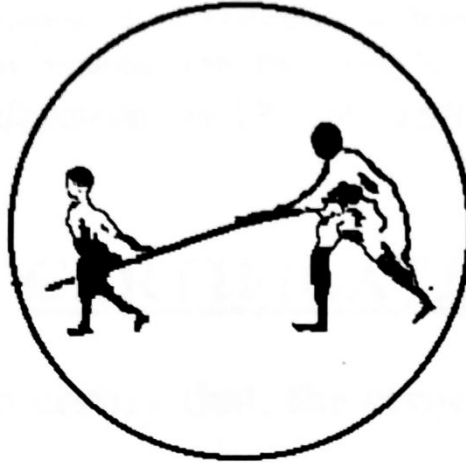
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**External Examiner**



**MGM INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT  
OF PROSTHETICS AND ORTHOTICS**



PROJECT SUBMITTED BY

**LAV KUMAR**

**IV BPO**

ON THE TOPIC

**“ADJUSTABLE ANKLE JOINT FOOT  
ORTHOSIS”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **CERTIFICATE**

This is to certify that, the project entitled

### **“ADJUSTABLE ANKLE JOINT FOOT ORTHOSIS”**

has been carried out by:

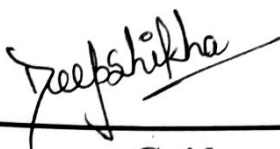
Mr. Lav Kumar

PR Number (11610600007)

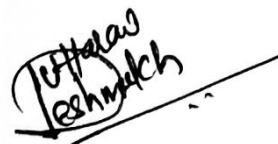
Seat Number (U2105738400013)

BPO IV year

under my supervision in the partial fulfillment of the requirement for the  
award of degree of **BACHELOR in Prosthetics and Orthotics (BPO)**  
during the academic year 2021-22.



**Guide**



**Head of the Department**  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



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Email: [mgmudpo@mgmuhs.com](mailto:mgmudpo@mgmuhs.com) | Website: [www.mgmudpo.edu.in](http://www.mgmudpo.edu.in)

## **EXAMINER CERTIFICATION**

This project report of

**“Lav Kumar”**

Entitled

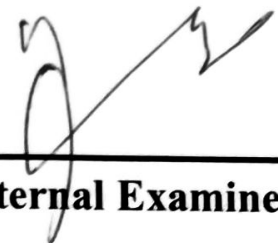
**“ADJUSTABLE ANKLE JOINT FOOT ORTHOSIS”**

Is approved and acceptable in quality and form.

*Chhayan  
Keshwani*  
12/08/22

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**Internal Examiner**



---

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
PROSTHETICS AND ORTHOTICS  
KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

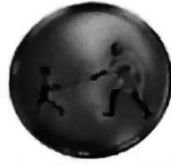
**BY**

**RUSHIKESH RAJGUDE**

**(IV YEAR BPO)**

***ON THE TOPIC***

**“DESIGN AND DEVELOPMENT OF LOAD-SHIFTER ANKLE  
FOOT ORTHOSIS”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI)

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Email: [mgmudpo@mgmuhs.com](mailto:mgmudpo@mgmuhs.com) | Website: [www.mgmudpo.edu.in](http://www.mgmudpo.edu.in)

**CERTIFICATE**

This is to certify that, the project entitled  
**"DESIGN AND DEVELOPMENT OF LOAD-SHIFTER ANKLE FOOT  
ORTHOSIS"**

*has been carried out by:*

MR. Rushikesh Rajgude

PR Number

(11810600016)

Class Roll Number

(MGMUDPO201815) BPO IV year

Under my supervision in the partial fulfillment of the requirement for  
the award of degree of **BACHELOR IN PROSTHETICS ORTHOTICS**  
(BPO) during the academic year 2021-2022

**Guide**

**Head of the Department**

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **EXAMINER CERTIFICATION**

This project report of

**“Rushikesh Pandurang Rajgude”**

Entitled

**“DESIGN AND DEVELOPMENT OF LOAD-SHIFTER ANKLE FOOT ORTHOSIS”**

Is approved and acceptable in quality and form.

*Rushikesh Rajgude*  
*13/08/2022*

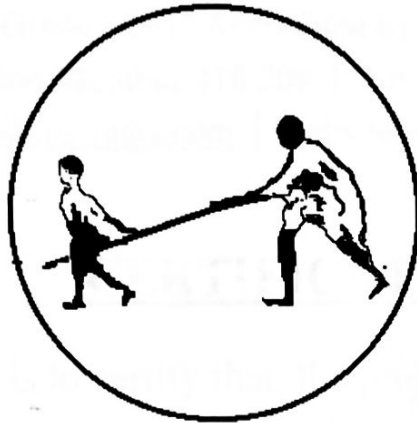
**Internal Examiner**

*[Signature]*

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**  
**BY**  
**HITESH JAGDISH CHORGE**  
**(IV YEAR BPO)**  
**ON**

**“DESIGN AND DEVELOPMENT OF CUSTOM MOLDED  
PTB BRACE FOR TIBIAL AND FIBULAR FRACTURE”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS  
& ORTHOTICS**

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**CERTIFICATE**

This is to certify that, the project entitled

**“Design And Development Of Custom Molded PTB Brace For Tibial And  
Fibular Fracture”**

has been carried out by:

Mr. Hitesh Jagdish Chorge

PR Number (11810600003)

Class Roll Number (MGMUDPO201803)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award  
of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the  
academic year 2022.

Guide

**Head of the Department**  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.





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**EXAMINER CERTIFICATION**

This project report of

**“Hitesh Jagdish Chorge”**

Entitled

**“Design And Development Of Custom Molded PTB Brace For Tibial And  
Fibular Fracture ”**

Is approved and acceptable in quality and form.

*Uttarak  
Schmuckh  
13/08/2022*

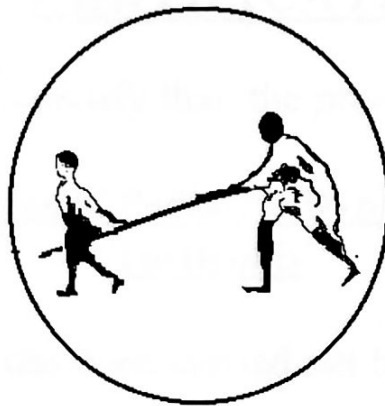
**Internal Examiner**

*[Signature]*

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**PRAJAKTA GIRISH TARI**

**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF PEDIATRIC  
DYNAMIC BRACE FOR CONGENITAL TORTICOLLIS”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**

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**CERTIFICATE**

This is to certify that, the project entitled

**“Design and Development of Pediatric Dynamic Brace for congenital Torticollis”**

has been carried out by:

Ms. Prajakta Girish Tari

PR Number (11810600012)

Class Roll Number (MGMUDPO201812)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2022.

Guide

Head of the Department

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **EXAMINER CERTIFICATION**

This project report of

**“Prajakta Girish Tari”**

Entitled

**“Design and Development of Pediatric Dynamic Brace for Congenital Torticollis”**

is approved and acceptable in quality and form.

*N. H. Deshpande*  
*13/08/2022*

**Internal Examiner**

*[Signature]*

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**Esha Sharad Malik**

**(IV YEAR BPO)**

***ON THE TOPIC***

***"Design of Trac-Splint for Wrist and Forearm"***



MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS  
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CERTIFICATE

This is to certify that, the project entitled

**"Design of Trac-Splint for Wrist and Forearm"**

*Has been carried out by:*

Ms. Esha Sharad Malik

PR Number

(11810600009)

Under my supervision in the partial fulfillment of the requirement  
for the award of degree of **BACHELOR IN PROSTHETICS ORTHOTICS (BPO)**  
during the academic year 2021-2022

**Guide**

**Head of the Department**

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **EXAMINER CERTIFICATION**

This project report of

**"Esha Sharad Malik"**

Entitled

**"Design of Trac-Splint for Wrist and Forearm."**

is approved and acceptable in quality and form.

*Tushar  
Teshmich  
13/08/2022*

**Internal Examiner**

*[Signature]*

**External Examiner**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
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**PROJECT SUBMITTED**

**BY**

**SNEHAL TULSHIRAM RANE (IV BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF DYNAMIC  
CERVICAL ORTHOSIS FOR DROPPED HEAD”**





**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
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**CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF DYNAMIC CERVICAL  
ORTHOSIS FOR DROPPED HEAD”**

Has been carried out by:

**Ms. Snehal Ashram Rane**

PR Number (11810600011)

Class Roll Number (MGMIUDPO201811)

**BPO IV**

Under my supervision in the partial fulfilment of the requirement for  
the award of degree of **BACHELOR in Prosthetics and Orthotics**  
(BPO) during the academic year 2022.

*Snehal*

**Guide**

*Uttara Deshmukh*

**Head of the Department**  
Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF  
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**EXAMINER CERTIFICATION**

This project report of

**“Snehal Tulshiram Rane”**

Entitled

**“DESIGN AND DEVELOPMENT OF DYNAMIC CERVICAL  
ORTHOSIS FOR DROPPED HEAD”**

Is approved and acceptable in quality and form.

*Tulshiram  
Rane  
13/08/2022*

**Internal Examiner**

*[Signature]*

**External Examiner**

**MAHATMA GANDHI MISSION'S**  
**INSTITUTE OF HEALTH SCIENCES**

**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF**  
**PROSTHETICS AND ORTHOTICS**  
**KAMOTHE, NAVI MUMBAI**



**PROJECT SUBMITTED**

**BY**

**GURSIMRAN KAUR BAL**

**(IV YEAR BPO)**

**ON**

**“DESIGN AND DEVELOPMENT OF**  
**DYNAMIC SCOLIOSIS BRACE”**



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **CERTIFICATE**

This is to certify that, the project entitled

**“DESIGN AND DEVELOPMENT OF DYNAMIC SCOLIOSIS BRACE”**

has been carried out by:

Ms. Gursimran Kaur Bal

PR Number (11810600002)

Class Roll Number (MGMUDPO201802)

BPO IV year

Under my supervision in the partial fulfillment of the requirement for the award of degree of **BACHELOR in Prosthetics and Orthotics (BPO)** during the academic year 2022.

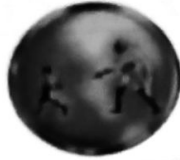
*Dhelal*

**Guide**

*Uttara Deshmukh*

**Head of the Department**

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
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## **EXAMINER CERTIFICATION**

This project report of

**“Gursimran Kaur Bal”**

Entitled

**“Design and Development of Dynamic Scoliosis Brace”**

Is approved and acceptable in quality and form.

*Uttara  
Jeshmitch  
13/08/22*

**Internal Examiner**

*[Signature]*

**External Examiner**



**MGM INSTITUTE OF HEALTH SCIENCES**

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**UNIVERSITY DEPARTMENT OF PROSTHETICS AND ORTHOTICS**

Sector-01, Kamothe, Navi Mumbai - 410 209 Tel 022-27437829, Website: www.mgmudpo.edu.in

## **CIRCULAR**

**Date: 23/09/2021**

### **EDUCATIONAL VISIT TO AIIPMR**

All students are hereby informed that an educational visit has been organized by MGM Institute's University Department of Prosthetics & Orthotics

Details are as follows:

Date: 24<sup>th</sup> & 25<sup>th</sup> November 2021,

Time: 9 AM to 2 PM

Venue: All India Institute of Physical Medicine & Rehabilitation, HajiAli, Mumbai.

You are required to be present with **proper uniforms and ID cards**, for the same.

**Dr. Uttara Deshmukh (P&O)**

**Principal,**

**MGM Institute's University Department of Prosthetics & Orthotics,**

**Kamothe, Navi Mumbai, Maharashtra.**

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



# MGM INSTITUTE OF HEALTH SCIENCES

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UNIVERSITY DEPARTMENT OF PROSTHETICS AND ORTHOTICS

Sector-01, Kamothe, Navi Mumbai - 410 209 Tel 022-27437829, Website:www.mgmudpo.edu.in

## REPORT OF EDUCATIONAL VISIT TO AIIPMR.

**Name of the event:** Educational visit to "All India Institute of Physical Medicine & Rehabilitation"

**Purpose:** To provide wide exposure to the students to upgrade knowledge about various manufacturing processes in the field of Prosthetics & Orthotics.

**Location:** All India Institute of Physical Medicine & Rehabilitation, Haji Ali, Mumbai, Maharashtra.

**Date:** 24<sup>th</sup> & 25<sup>th</sup> November 2021,

**Time:** 09:00 AM to 2:00 PM.

**No. of attendees:** 02 Faculty & 26 Students of MGMIUDPO.

### **PROCEEDINGS OF THE EVENT:**

The students of MGM IUDPO were given an opportunity to know about the All India institute of Physical Medicine & Rehabilitation on 24<sup>th</sup> & 25<sup>th</sup> November 2021 by an educational exposure to the Institute under the guidance of Dr. Ravi Barela (P&O) & Dr. Pratiksha Shelar (P&O).

The specialty of this institute is that, an ample of patients are fitted with ample of Prosthetics and Orthotics solutions with very reasonable cost. The most critical and challenging cases in the field of rehabilitation are treated and fitted with variety of Prostheses and Orthoses splendidly. This Government Institute is self-sustainable in the production of all Prosthetics and Orthotics components.

The students were given an opportunity to know about specialized departments in the institute broadly classified as Metal, Wood, Leather and Plastic.

Metal forging and electroplating, Wood seasoning and Leather tanning processes to fabricate conventional types of Orthoses and Prostheses are some of the unique qualities of this institute.

Students were exposed to the variety of conventional to advanced technologies by Dr. Makarand Saraf and upgraded their knowledge in the core subjects.

**Dr. Uttara Deshmukh (P&O)**

**I/C Principal,**

**MGM Institute's University Department of Prosthetics & Orthotics**

**Kamothe, Navi Mumbai, Maharashtra.**

Dr. Uttara Deshmukh (P & O),  
H. O. D. In-Charge,  
MGM Institute's University Department  
of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.



# MGM INSTITUTE OF HEALTH SCIENCES

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## UNIVERSITY DEPARTMENT OF PROSTHETICS AND ORTHOTICS

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### GLIMPSES OF AIIPMR VISIT- 2021.







MGM INSTITUTE OF HEALTH SCIENCES  
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**UNIVERSITY DEPARTMENT OF PROSTHETICS AND ORTHOTICS**  
Sector-01, Kamothe, Navi Mumbai - 410 209 Tel 022-27437838, Website: [www.mgmudpo.edu.in](http://www.mgmudpo.edu.in)

## **CIRCULAR**

**Date- 07/02/2022**

This is to inform all 4<sup>th</sup> Year & Internship students that, MGM Institute's University Department of Prosthetics & Orthotics will organize a field visit on 18<sup>th</sup> February 2022 under Institution's Innovation Council, MGMIHS for the 1<sup>st</sup> & 2<sup>nd</sup> Quarter MIC activities.

Students are informed to gather in front of the canteen sharp at 8.20 AM

The details are as follows:

Vehicle no (BUS): MH46BF1873

Driver name: Vikas Kadam.

Driver's Contact No: - 9320525214

Venue: Proactive India Pvt. Ltd., 15, Parmar Complex, Next to golden palm hotel, Old Mumbai-Pune Highway, Nigdi, Pune: -411044

**Dr. Uttara Deshmukh (P&O),**  
**Head of the Department,**  
**MGM Institute's University Department of Prosthetics & Orthotics.**  
**Kamothe, Navi Mumbai.**

**Dr. Uttara Deshmukh (P & O),**  
**H. O. D. In-Charge,**  
**MGM Institute's University Department**  
**of Prosthetics and Orthotics,**  
**Kamothe, Navi Mumbai.**



MGM INSTITUTE OF HEALTH SCIENCES  
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**UNIVERSITY DEPARTMENT OF PROSTHETICS AND ORTHOTICS**

Sector-01, Kamothe, Navi Mumbai - 410 209 Tel 022-27437838, Website: [www.mgmudpo.edu.in](http://www.mgmudpo.edu.in)

**Report of MIC Activity organized by MGMIUDPO, under IIC, MGMIHS, Navi Mumbai**  
**for I & II Quarter 2022**

**Name of the Event: Industrial Visit to Proactive India Pvt. Ltd.**

**Purpose of the Event:** To motivate the students in the area of innovation by exploring their knowledge in fabrication of Prosthetic and Orthotic components.

**Date of the Event:** 18<sup>th</sup> February, 2022

**No. of Participants:** 27 Students of MGM Institute's University Department of Prosthetics & Orthotics, 8 students from MGM New Bombay College of Nursing and 4 students from MGM School of Physiotherapy, Navi Mumbai.

**No. of Faculty:** Dr. Uttara U. Deshmukh, Head of the Department, Department of Prosthetics and Orthotics, MGM Institute of Health Sciences, Kamothe, Navi Mumbai.

**PROCEEDINGS OF THE EVENT:**

An educational visit was organized by MGM Institute's University Department of Prosthetics and Orthotics as an interdisciplinary activity for the First and Second Quarters' events under Institution Innovation Counsel, MGM Institute of Health Sciences.

The visit was organized on 18<sup>th</sup> February 2022 to Proactive Technical Orthopaedics Pvt. Ltd at Nigdi, Pune where students from all three colleges got exposure to the manufacturing, assembling, and exporting various Prosthetic and Orthotic components.

'Proactive India Pvt. Ltd.' which is the India's first manufacturer company who manufactures the Prosthetic components and exports them globally over 30 countries. They have their own designed machineries and fabrication unit along with a clinical set-up.

They have a corporate office located at Nigdi and three factories located at MIDC Industrial area, Bhosari, within the vicinity of 5 KM radius.

During the visit, the students were exposed the process of designing to manufacturing of different Prosthetic components like Pyramid Socket Adapter, Four Prongue Adapters, Double Mouth Adaptors and Prosthetic Feet etc.

The process of manufacturing of components from raw materials to desired products was explained by the eminent professionals in a very interactive manner.

They have the production of about 200 Prosthetics kits per month which gives students a large exposure of handling of mass production.

Also students had seen working mechanism of Drilling Machine, Milling Machine, and Lathe Machine.

The institute had organised a motivational story of their own patient who was fitted with the company's products.

Lastly the Mr. Sumit Bhoumik, proprietor of the company explained in detail about the working mechanisms of various Prosthetic components, the need based research and innovations of the same and how the products are exported to the other countries.

Over all the industrial visit enhanced the students' knowledge and provided them vision about many other aspects than the conventional.



**Dr. Uttara Deshmukh (P&O),**  
Head of the Department,  
MGM Institute's University Department of Prosthetics and Orthotics,  
Kamothe, Navi Mumbai.

**Dr. Uttara Deshmukh (P & O),**  
**H. O. D. In-Charge,**  
**MGM Institute's University Department**  
**of Prosthetics and Orthotics,**  
**Kamothe, Navi Mumbai.**



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**GLIPSES OF PROACTIVE INDIA PRIVATE LIMITED VISIT- FEBRUARY-2022**





**MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS**  
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI)

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

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## MGM INSTITUTE OF HEALTH SCIENCES

(Deemed University u/s 3 of UGC Act, 1956)

**Grade 'A++' Accredited by NAAC**

Sector-01, Kamothe, Navi Mumbai - 410 209

Tel 022 27432471, 022-27432994, Fax 022 - 27431094

E-mail : registrar@mgmuhs.com ; Website : www.mgmuhs.com

**The following students have completed their internship in the year 2021 -22**

Sr. No.	Name of Students	College Name	Date of Issuc	Programme Name
1	Choudhary Mishah Rafiqueahmed	MGM Institute's University Department of Prosthetics & Orthotics	19/03/2022	BPO
2	Mapari Nilam Shivaji	MGM Institute's University Department of Prosthetics & Orthotics	19/03/2022	BPO
3	Tambe Pranita Dhanpal	MGM Institute's University Department of Prosthetics & Orthotics	19/03/2022	BPO
4	Khatri Afra Ebrahim	MGM Institute's University Department of Prosthetics & Orthotics	19/03/2022	BPO
5	Khan Sana Barktullah	MGM Institute's University Department of Prosthetics & Orthotics	19/03/2022	BPO
6	Khan Sana Barktullah	MGM Institute's University Department of Prosthetics & Orthotics	19/03/2022	BPO
7	Tambe Rohan Santosh	MGM Institute's University Department of Prosthetics & Orthotics	11/05/2022	BPO

**Dr. Rajesh B. Goel**  
Registrar

**MGM Institute of Health Sciences**  
(Deemed University u/s 3 of UGC Act, 1956)  
Navi Mumbai- 410 209