

AMITY UNIVERSITY

— R A J A S T H A N —

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Integrated M.Tech Programmes in Converging Technologies

List of students undertaking field project or research projects or internships.

Program Code	Programme name	Name of the students
121186	Btech+Mtech B&B	Mr Deepanshu Sharma
121186	Btech+Mtech B&B	Ms Aditi Jain
121186	Btech+Mtech B&B	Ms Nitigya Mathur
121186	Btech+Mtech B&B	Mr Sagar Batra
121186	Btech+Mtech B&B	Mr Jainam Jain
121186	Btech+Mtech B&B	Mr Tushant Agrawal
121186	Btech+Mtech CNS	Ms Ishi Tandon
121186	Btech+Mtech CNS	Ms Shreya Agarwal
121186	Btech+Mtech CNS	Ms Surya Priya Ulaganathan
121186	Btech+Mtech NSN	Mr Patel Gaurang Manojbhai
121186	Btech+Mtech NSN	Mr Chayan Patra
121186	Btech+Mtech EST	Mr Harsh Kotecha
121186	Btech+Mtech CNS	Ms Jha Vaidehi Satyendrakumar
121186	Btech+Mtech CNS	Ms Sandra Mary Prasad
121186	Btech+Mtech NSN	Mr Dipanjan Paul
121186	Btech+Mtech NSN	Ms Anamika Saini

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled “**SENSORS FOR TOXIC HEAVY METAL IONS DETECTION IN WATER – END-TO-END PROJECT**” is an original research/project work carried by **Deepanshu Sharma** in partial fulfilment of the requirement for the degree of **B.Tech + M.Tech (Bioinformatics and Biotechnology)**, during period from June 2020 to June 2021 , under my direct supervision.



Dr. Shiv Govind Singh

Professor

Department of Electrical Engineering,

Indian Institute of Technology Hyderabad, India

Date: 2/7/2021

Place: IIT, Hyderabad

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled “**Development of an isothermal amplification method for a rapid and accurate detection of bacterial diseases associated with tomato**” is an original research/project work carried by “**Aditi Jain**” in partial fulfillment of the requirement for the degree of **Btech+Mtech(Dual) Bioinformatics and Biotechnology**, during period of twelve months from 1st July 2020 to 30th June 2021, under my direct supervision.



Name and signature of External Supervisor
Designation with Affiliation of External Supervisor

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled “**Development of an isothermal amplification method for a rapid and accurate detection of fungal diseases associated with tomato**” is an original research/project work carried by “**Nitigya Mathur**” in partial fulfillment of the requirement for the degree of **Btech+Mtech (Dual) Bioinformatics and Biotechnology**, during period of twelve months from 1st July 2020 to 30th June 2021, under my direct supervision.



P. Buela Parivallal
Founder and CEO,
Dendrite Laboratories Private Limited.

JAMIA MILLIA ISLAMIA

(A Central University by an Act of Parliament)

Telephone: 26983489

26981717

Fax: 4492



Centre for Interdisciplinary Research in Basic Sciences (CIRBSc)

Muslam Muhammad Ali Jauhar Marg, Jamia Nagar, New Delhi-110025

Md. Imtaiyaz Hassan, Ph.D., FRSB., FRSC.

(Assistant Professor)

E-mail: mihassan@jmi.ac.in

Cell: +91-999-032-3217

Certificate

This is to certify that Sagar Batra, a student of B.Tech + M.Tech (Dual) Bioinformatics and Biotechnology, Amity University Rajasthan, has completed his one-year dissertation project on the **Effect of Mutations on PIM1 Kinase** from July 2020 to June 2021 under my supervision.

I am pleased to state that he worked hard in preparing his report and has presented a good picture of the concerned works. The information and findings presented in this report seem to be authentic.

Sagar Batra possesses a good moral character and pleasing personality. I wish him every success in life.

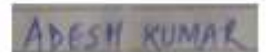

Dr. M. T. HASSAN
Assistant Professor
Centre for Interdisciplinary Research in Basic Sciences
Jamia Millia Islamia, New Delhi 110025

Md. Imtaiyaz Hassan, Ph.D.

(Assistant Professor)

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled “**Role of GMP and KPO –Knowledge Process Outsourcing in Health Care**” is an original project work carried by **JAINAM JAIN** in partial fulfilment of the requirement for the degree of Under/Post Graduate Degree in **B. Tech + M. Tech in Biotechnology and Bioinformatics**, during period for **15/06/2020** to **30/6/2021**



Dr. Adesh Kumar

MBBS, MD

Manager

Innodata Pvt Ltd.

CERTIFICATE OF INTERNSHIP

This is to certify that the dissertation entitled "**IOT ENABLED AQUACULTURE MONITORING SYSTEM TO ASSIST THE FARMERS**" is an original project/research work carried by **TUSHANT AGRAWAL** in partial fulfilment of the requirement for the degree of **B.TECH + M.TECH (BIOINFORMATICS AND BIOTECHNOLOGY)** dual degree in Converging Technology programme of Amity Institute of Biotechnology (Batch 2016-2021) of Amity University, Rajasthan, during period from June 2020 to June 2021 , under my direct supervision.

Shiv Govind Singh

Prof. (Dr.) Shiv Govind Singh
Guide

Professor and Head

Department of Electrical Engineering, Indian Institute of Technology, Kandi,

Indian institute of Technology,

Hyderabad-502285, India



CENTRE OF BIOMEDICAL RESEARCH

(Formerly Centre of Biomedical Magnetic Resonance)

An Autonomous Centre of Govt. of U.P.

Sanjay Gandhi Postgraduate Institute of Medical Sciences Campus, Raebareilly Road, Lucknow - 226014, U.P. (INDIA)

July 05th 2021

CERTIFICATE

This is to certify that work embodied in the report entitled "*Brain Volumetric analysis and Behavioural tests correlations: An objective approach*" has been conducted by Ms. Ishi Tandon from 1st July 2020-30th June 2021. A student of B.Tech & M.Tech integrated Program of Cognitive Neurosciences of Amity University, Jaipur, Rajasthan, INDIA as a part of her dissertation project for the fulfilment of her degree under my supervision at Centre of Biomedical Research (CBMR), SGPGI Campus, Lucknow, INDIA.


05/07/2021
Dr. Ahmad Raza Khan
(Ramalingaswami Fellow)

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled "Neuro imaging techniques and diagnosis
-----" is an original research/project work carried by Shreya Agarwal in
partial fulfillment of the requirement for the degree of **BTech+Mtech in CNS**
, during period from 28/05/2020 to 4/21 under my direct supervision.

Name of Guide Dr. S bhandari
Designation Principal
Name of Institute/Industry SMS
Address of Institute/Industry
SMS
Medical college
Jaipur
Rajasthan

Date: 04/2021

Place: Jaipur



Project Completion Certificate

This is to certify that Ms. Surya Priya Ulaganathan has successfully completed her MS thesis dissertation in my laboratory working through the period of July 1, 2020 - June 30, 2021.

This period has been very difficult for all students, but specially for her given that she started under the Covid-19 pandemic restrictions which limited her access to lab and training opportunity. Unfortunately, the pandemic restrictions continued in some or the other form throughout the period of her dissertation time. Despite this, during this period she received hands on experience with mouse genetic-tools as well as mouse breeding, and learned a number of wet-lab techniques, such as, brain slice and cell preparation, immunofluorescence staining, microscopy and image-analysis. Additionally, she also learned several behaviour paradigms and FACS analysis.

A handwritten signature in blue ink, appearing to read 'Hiyaa Ghosh', with a stylized flourish at the end.

Hiyaa Ghosh
Date: July 6th, 2021

Date: 04-07-2022

Internship Certificate

This is to certify that the project entitled "**Evidence of climate change over Indian region**" is an original research/project work carried by **Harsh Kotecha** in partial fulfilment of the requirement for the degree of **B.Tech + M.Tech (Environmental Science and Technology)**, during period from July 2021 to July 2022 under my direct supervision.

I wish him great success in all his future professional and scientific endeavors.



(Akhilesh K. Mishra)

Dr. Lopamudra Giri

Associate Professor, Department of Chemical Engineering

PhD: University of Iowa, Iowa city; Post-doc: Washington University, St Louis

Dt: 7/4/2022

CERTIFICATE

This letter is to certify that Jha Vaidehi SatyendraKumar, a student from Integrated M tech in cognitive neuroscience (dual degree) at Amity University, Rajasthan, was appointed as an intern at Indian Institute of Technology, Hyderabad (IITH) from 7th June, 2021. She has worked on the project "Analysis of activity obtained from a cortical neuron population from a two-photon calcium imaging dataset" from then to 26th January, 2022 under my supervision as a part of the training for 9th and 10th semester, Integrated M tech in cognitive neuroscience (dual degree)- Converging Technology.

The major objective of the work was to perform data collection from calcium imaging of cortical neurons from animal model experiments and analyze the cell responses recorded from the large-scale time-lapse imaging using two photon microscopy using R software. The other objective of the project was to compare the neuronal activity using various correlation technique and identify the most suitable method for calculation of correlation among neuronal groups. During her study, she remained committed to the project on performing data analysis. Please feel free to contact me if you have any queries.



Lopamudra Giri,

Associate Professor,

Department of Chemical Engineering

Indian Institute of Technology Hyderabad

Email id: giril@che.iith.ac.in

Tel: 040-2301-6212





National Institute of Mental Health and Neuro Sciences
Bengaluru - 560 029, India

Department of Psychiatry

REF - NIMH:ACA-B:TRG-PSY:2021/472 dated 12.04.2021

CERTIFICATE

This is to certify that this Master's thesis titled "**Effect of EEG signal processing toolboxes on event-related potential findings**" submitted by Ms. Sandra Mary Prasad for the award of Master's degree of Integrated Masters in Technology to Amity Institute of Biotechnology, Amity University, Rajasthan is a record of bona fide research work carried out by her in the Department of Psychiatry, National Institute of Mental Health and Neuro Sciences (Deemed University), Bengaluru - 560 029, India, under our supervision and that it has not formed the basis for the award of any other degree or diploma prior to this date.

Dr. Anushree Bose
DBT-Wellcome Trust India Alliance
Early Career Fellow
Department of Psychiatry,
NIMHANS Bengaluru - 560 029

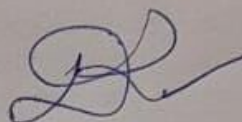
Dr. Anushree Bose
DBT / Wellcome Trust India Alliance Early Career Fellow
Department of Psychiatry, NIMHANS

Dr. G. Venkatasubramanian
MD, Ph.D.
Professor of Psychiatry
Department of Psychiatry, NIMHANS
KMC Reg. No. : TMN19980001521KTK

Prof. Venkatasubramanian G.
Professor, Department of Psychiatry
Head, Department of Clinical Neurosciences
NIMHANS

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled "**Development of Ag/BTO/TiO₂ nanocomposites as gas sensor towards ammonia and ethanol**" is an original research/project work carried by **Dipanjan Paul** in partial fulfilment of the requirement for the degree of **B. Tech + M. Tech (Nanoscience and Nanotechnology)**, during period from July 2021 to July 2022 under my direct supervision.



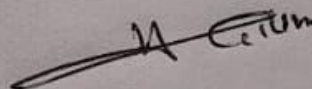
Dr. Deepshikha Rathore

Assistant Professor

Supervisor

Amity School of Applied
Sciences,

Amity University Rajasthan,
SP-1 Kant Kalwar, NH11C,
RIICO Industrial Area, Rajasthan
303002, India.



Dr. Hemant Kumar Daima

Assistant Professor

Co-Supervisor

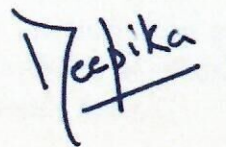
Amity Institute of Biotechnology,
Amity University Rajasthan,
SP-1 Kant Kalwar, NH11C,
RIICO Industrial Area, Rajasthan
303002, India.

Date: 5.7.22

Place: Jaipur

CERTIFICATE BY THE GUIDE

This is to certify that the project entitled “Synthesis of V_{k3} loaded iron oxide nanoparticles for enhanced chemodynamic-magnetic hyperthermia therapy” is an original research/project work carried by Anamika Saini in partial fulfilment of the requirement for the degree of **B.Tech + M.Tech (Nanoscience and Nanotechnology)**, during period from July 2021 to July 2022 under my direct supervision.



Dr. Deepika Sharma

Scientist- D (Assistant Professor)

Institute of Nano Science and
Technology, Knowledge City,
Sector 81, Mohali-
140306, Punjab, India.

Date: 28-06-2022

Place: Mohali