

Additional Information for QnM 1.3.2-

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship during the year

The following summary table shows program-wise number of courses that include experiential learning

	1.3 Curriculum Enrichment						
1.3.2 Number of courses that include experiential learning							
Sr No Program Name Number of Co							
1	Information Technology	12					
2	Computer Engineering	10					
3	Electronics Engineering	6					
4	Electronics and Telecommunication Engineering	6					
5	Biomedical Engineering	10					
6	Master of Management Studies	6					
	Total	50					

Document showing the experimental learning through project work/field work/internship as prescribed by the affiliating university curriculum is as shown below.

This sample documents include-

- Project work in collaboration with outside organization
- Course Mini Project,
- Field work,
- Semester Mini Project

Other documents as per data template are uploaded on this link: https://tinyurl.com/56m8tmu8

Project work in collaboration with outside organization: Biomedical Engineering



Department of Biomedical Engineering

List of Collaborative Projects 2021-22

Sr. No	Name of Students	Project Title	Project Guide	Collaborating Industry	
1	Ishan Vatsaraj	Medical Diagnosis Chatbot	Dr. Gajanan	IIT Bombay+	
	Sanika Thakur		Nagare	Dynasense Technologies Pvt. Ltd.	
	Swara Surve				
2	Yash Rathod	Predictive Analysis on	Dr. Gajanan Nagare	Xstats	
	Ruchita Ajgaonkar	Polycystic Ovary Syndrome (PCOS)			
	Aryan Komare				
	Shruti Chindarkar				
3	Vedant Shirsekar	Skin diseases detection and remedial assistanceusing ML	Dr. Gajanan Nagare	IIT Bombay+ Dynasense Technologies Pvt. Ltd.	
	Soham Urunkar				
	Swarit Mahalsekar				

Gm.

Degartment of Biomedical Engineering Vidyalankar Institute of Technology, Astop Hill, Wadala (E), Mumbai-37



Tel: (+91-22) 2576 7770/ 25767771 (0) Email: head.bio@iitb.ac.in रोहित श्रीवास्तव प्राध्यापक एवं विभागाध्यक्ष जैव विज्ञान एवं जैव अभियांत्रिकी विभाग भारतीय प्रौद्योगिकी संस्थान मुंबई पवई, मुंबई - 400076, भारत

IT Bombay

Date: 20-06-2022

To whomsoever it may concern

This is to certify that **Ms. Swara Surve**, Undergraduate student of Vidyalankar Institute of Technology, Wadala, Mumbai of Biomedical Engineering Department participated and contributed to the project titled **Medical Diagnosis Chatbot** in our institute under my guidance and supervision.

External Guide's Signature

Radum

(Prof. Rohit Srivastava, FNASc, FRSC, FRSB, FNAE) Himanshu Patel Chair Professor, Room 505 Department of Biosciences and Bioengineering IIT Bombay, Powai, Mumbai 400076



Tel: (+91-22) 2576 7770/ 25767771 (0) Email: head.bio@iitb.ac.in रोहित श्रीवास्तव प्राध्यापक एवं विभागाध्यक्ष जैव विज्ञान एवं जैव अभियांत्रिकी विभाग भारतीय प्रौद्योगिकी संस्थान मुंबई पवई, मुंबई - 400076, भारत

IIT Bombay

Date: 20-06-2022

To whomsoever it may concern

This is to certify that Mr. SWARIT MAHALSEKAR, Undergraduate student of Vidyalankar Institute of Technology, Wadala, Mumbai of Biomedical Engineering Department participated and contributed to the project titled SKIN DISEASE DETECTION AND REMEDIAL ASSISTANCE in our institute under my guidance and supervision.

External Guide's Signature

(Prof. Rohit Srivastava, FNASc, FRSC, FRSB, FNAE) Himanshu Patel Chair Professor, Room 505

Department of Biosciences and Bioengineering

IIT Bombay, Powai, Mumbai 400076



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IT Bombay

Date: 20-06-2022

To whomsoever it may concern

This is to certify that **Mr. VEDANT SHIRSEKAR**, Undergraduate student of Vidyalankar Institute of Technology, Wadala, Mumbai of Biomedical Engineering Department participated and contributed to the project titled **SKIN DISEASE DETECTION AND REMEDIAL ASSISTANCE** in our institute under my guidance and supervision.

External Guide's Signature

(Prof. Rohit Srivastava, FNASc, FRSC, FRSB, FNAE) Himanshu Patel Chair Professor, Room 505

Department of Biosciences and Bioengineering

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IT Bombay

Date: 20-06-2022

To whomsoever it may concern

This is to certify that **Mr. Ishan Vatsaraj**, an undergraduate student of the Biomedical Engineering Department of Vidyalankar Institute of Technology, Wadala, Mumbai has successfully completed the project titled **Medical Diagnosis Chatbot** in our institute under my guidance and supervision.

He worked on different parts of the project and demonstrated exemplary skills in **Python**, **Machine Learning**, **HTML**, and **JavaScript**.

He is a diligent and enthusiastic student with a zeal to do his best on any assignment. He demonstrated good design and coding skills. He also assisted in technical documentation and modification.

He has excellent written and verbal communication skills. He is well organized and can work independently. He can effectively multi-task to ensure that all the assignments are looked after and duly completed in a professional and timely manner.

We wish him the very best for his career and future endeavours.

External Guide's Signature

(Prof. Rohit Srivastava, FNASc, FRSC, FRSB, FNAE) Himanshu Patel Chair Professor, Room 505

Department of Biosciences and Bioengineering

IIT Bombay, Powai, Mumbai 400076



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IT Bombay

Date: 20-06-2022

To whomsoever it may concern

This is to certify that **Ms. Sanika Thakur**, Undergraduate student of Vidyalankar Institute of Technology, Wadala, Mumbai of Biomedical Engineering Department participated and contributed to the project titled **Medical Diagnosis Chatbot** in our institute under my guidance and supervision.

External Guide's Signature

Radum

(Prof. Rohit Srivastava, FNASc, FRSC, FRSB, FNAE) Himanshu Patel Chair Professor, Room 505 Department of Biosciences and Bioengineering IIT Bombay, Powai, Mumbai 400076



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IT Bombay

Date: 20-06-2022

To whomsoever it may concern

This is to certify that Mr. SOHAM URUNKAR, Undergraduate student of Vidyalankar Institute of Technology, Wadala, Mumbai of Biomedical Engineering Department participated and contributed to the project titled SKIN DISEASE DETECTION AND REMEDIAL ASSISTANCE in our institute under my guidance and supervision.

External Guide's Signature

Radur

(Prof. Rohit Srivastava, FNASc, FRSC, FRSB, FNAE) Himanshu Patel Chair Professor, Room 505 Department of Biosciences and Bioengineering IIT Bombay, Powai, Mumbai 400076





"This is to certify that Miss. Ruchita Ajgaonkar from Vidyalankar Institute of Technology, Mumbai has successfully completed internship program on Predictive Analysis of PCOS using ML under the guidance of Dr. Yogesh Karpate.

The duration of this project was from August 2021 to March 2022.

The internship on evaluation fulfills all the stated criteria and student's findings are her original work.

We hereby certify her work excellent to the best of our knowledge"

Dr. Yogesh Karpate (Ph.D.)

CTO

Vanashri Kowase





"This is to certify that Mr. Aryan Komare from Vidyalankar Institute of Technology, Mumbai has successfully completed internship program on Predictive Analysis of PCOS using ML under the guidance of Dr. Yogesh Karpate.

The duration of this project was from August 2021 to March 2022.

The internship on evaluation fulfills all the stated criteria and student's findings are his original work.

We hereby certify his work excellent to the best of our knowledge"

Dr. Yogesh Karpate (Ph.D.)

CIO

Vanashri Kowase





"This is to certify that Mr. Yash Rathod from Vidyalankar Institute of Technology, Mumbai has successfully completed internship program on Predictive Analysis of PCOS using ML under the guidance of Dr. Yogesh Karpate.

The duration of this project was from August 2021 to March 2022.

The internship on evaluation fulfills all the stated criteria and student's findings are his original work.

We hereby certify his work excellent to the best of our knowledge"

Dr. Yogesh Karpate (Ph.D.)

CTO

Vanashri Kowase





"This is to certify that Miss. Shruti Chindarkar from Vidyalankar Institute of Technology, Mumbai has successfully completed internship program on Predictive Analysis of PCOS using ML under the guidance of Dr. Yogesh Karpate.

The duration of this project was from August 2021 to March 2022.

The internship on evaluation fulfills all the stated criteria and student's findings are her original work.

We hereby certify her work excellent to the best of our knowledge"

Dr. Yogesh Karpate (Ph.D.)

CIO

Vanashri Kowase



Course Mini Project: Biomedical Engineering

	Vidyalankar
	Institute of
	Technology-
Approdited A	+ by NAAC

Department of Biomedical Engineering

Sem-3 Course: Digital Electronics (2021-22)

GROUP NUMBER	ROLL NUMBER	NAME	FINAL TOPIC	Marks
GROUP NO 1	20105A0022	Pratham Rajbhar		8
	20105A0010	Abel D'Souza	RPS game	7
	20105A0018	Khushi Shah		7
	20105A0003	Akshita Suresh		7
iROUP NO 2	20105A0001	Riya Modi	Traffic light controller	9
	20105A0040	Bhardwaj Nayak		8
	20105A0052	Shrikant Deshmukh		7
	20105A0004	Alsaz Khan		9
iroup no 3	20105A0017	Niti Chikhale		9
	20105A0013	Abhay Barage	Traffic lights	9
	20105A0044	Rohan Utture		7
	20105A0021	Abhijit Gawai		2
Group no. 4	20105A0048	Manali Mhaskar		2
, , , , , , , , , , , , , , , , , , ,	20105A0019	Isha pande	Vending Machine	9
	20105A0012	Rutuja Shendage		8
	20105A0014	Sakshi Wagh		8
GROUP NO 5	20105A0039	Madhushree Thatte		8
	20105A0016	Sneha Tripathi		8
	20105A0011	Shrushti Shewale		8
	20105A0008	Khushi Kumbharde	7 segment display system	8
Group No.06	20105A0049	Pratiksha Sutar		7
	20105A0054	Rahul Patil	Rock paper scissor game	7
	20105A0050	Karuna Padwal		7
Group No.07	20105A0038	Suyash Ghanekar	2 way traffic light with pedestrian crossing	8
,	20105A0031	Rutvik Sarvade		8
	20105A0046	Piyush Dalvi		8

	20105A0045	Vineet Patil		8
Group No.08	20105A0036	Ajay Kumar	Password security system	8
	20105A0034	Raviraj Suralkar		8
	20105A0027	Tanmay More		8
	20105A0037	Sahil Aute		8
Group No. 9	20105A0024	Tejaswi Yelgonda	Dual tone multi frequency (DTMF) bsed Home Automation	6
	20105A0028	Abhilasha Kurmi		6
	20105A0047	Prajay Bhalerao		6
	20105A0025	Durva Detke		6
Group No. 10	20105A0002	Ayushi Tanna	Gesture control Bluetooth speaker	9
	20105A0005	Freny Babaria		9
	20105A0009	Jay Sawant		9
	20105A0029	Harshdeep Patil		8
Group No. 11	20105A0026	Yojna vare		8
	20105A0041	Khushi Shinde	Fibonacci Series generator	0
	20105A0042	Raksha Amrutkar		6
	20105A0055	Ujwal Jadhav		8
Group no. 12	20105A0033	Yadnyesha Rane	Intrusion detection system for 3 rooms	0
	20105A0032	Sanika Nalawde		0
	20105A0015	Aditya Maluskar		0
	20105A0023	Paras Dhotre		0
Group no. 13	20105A0051	Apeksha Dalvi	Interactive LED surface.	0
	20105A0043	Abhinay karnale		0

Field Work: Biomedical Engineering



Department of Biomedical Engineering

Subject: Medical Imaging-I

Academic Year: Even Semester 2021-2022

Virtual Tour to Reliance Hospital

Departments seen:

- ICU
- O.T.
- Radiology
- Casualty/Emergency
- Wards/Rooms

Equipments & Imaging Modalities seen:

- 1. LINAC used for patients with cancer which uses high energy x-rays to find tumour
- 2. MRI -used to see the internal organs
- 3. Philips Imaging CT
- 4. SIMENS CT simulation

How many bedded hospitals -345 and what type of services are offered – multispeciality hospital

Images







Link of Hospital - https://www.reliancehospitals.com/patients-visitors/virtual-tour/



Semester Mini Project: Computer Engineering and Information Technology

VIT Vidyalankar Institute of Technology		Departme	nt of Computer Engi	ineering
Accredited A+ by NAAC		SBL Mini Pro	oject Marks AY 2021-22 (E	VEN) Sem-IV
			·	
Group No.	Roll No.	Division	Names	Topic Name
	20102B0056	В	Sahil Sawant	
1	20102B0022	В	Prem Patel	Book Store
ı	20102A0018	Α	Shubham Shelatkar	Book Store
	20102A0034	Α	Altamash Khan	
	20102A0015	Α	Aakanksha Karambele	
0	20102A0040	Α	Arya Chavarkar	Franks as Managament Custom
2	20102B0039	В	Vaishali Ankam	Employee Management System
	20102B0040	В	Shrawani Dhomne	
	20102A0006	А	Suyog Havare	
	20102A0005	A	Yash Jagdale	
3	20102A0057	A	Harsh Naiik	Insurance Management System
	20102/10001	7.	riaron riami	
	20102A0058	А	Akshata Kadam	
	20102A0024	A	Harsh More	
4	20102A0029	A	Rutuja Patil	Message Encryptor-Decryptor
	20102/10020	/ /	Trataja i atti	
	20102B0002	В	Karthi Devendra	
	20102B0002 20102A0071	A	Mark John	
5	20102A0071 20101A0003	В	Nitish Wadpally	Space Shooter
	20101A0003	D	Initisti waupaliy	
	2010240021		Kamlesh Sable	
	20102A0021	A A		
6	20102A0033		Aryan Kokabankar	Bounce ball and Tetris Game
	20102A0035	Α	Niraj Koli	
	204020070		Are it Charres	
	20102B0070	B B	Amit Sharma	Student Date Management
7	20102B0069		Dhruva Ludbe	Student Data Management
	20102A0048	A	Ritik Zambre	System
	004000005		K. ad Dala ta	
	20102B0035	В	Krunal Badgujar	Criminal Database Management
8	20102A0049	A	Rajat Amate	Criminal Database Management
	20102B0013	В	Sakshi Indulkar	system
	004005000		A control of the state of the s	
	20102B0007	В	Ananthakrishnan Nair	
9	20102B0014	В	Priyal Dupare	A Snake game with Overworld in
	20102B0018	В	Aakash Vaishnav	pygame
	20102B0006	В	Yash Malode	
	20102A0065	Α	Dipesh Rawal	
10	20102A0041	Α	Tejas Barge	Aerospace (plane shooter
	20102A0014	Α	Satej Bhave	game)
	20102A0028	Α	Madiha Rakhangi	
	20102A0004	Α	Trisha Shah	
11	20102A0012	А	Shipra Dagli	Hospital Management System
1 1	20102B055	В	Vaibhavi Raje	
	20102B057	В	Swathy Ayanggar	
	20102B0011	В	Qasim Naik	
12	20102A0072	А	Chandan Patil	Grocers: online grocery
12	20102A0019	А	Vishal Patil	shopping GUI
	20102A0068	А	Sahil Chavhan	

	20102B0001	В	Udit Mahajan	Quiz-Application with db-
13	20102A0002	A	Rishi Sharma	connected
	20102A0001	В	Aditya Mawa	
	20102A0038	A	Kunal Walavalkar	
14	20102A0039	A	Kedar Walavalkar	
	20102A0013	A	Athang Munankar	Tetris
	20102A0011	A	Neel Gude	
	20102B0017	B	Rohan Hazari	
	20102B0020	<u> </u>	Sanskruti Salunkhe	
15				Space Invaders game
	21102A2006	A	Mandar Thakur	
4.0	21102B2002	В	Yash Uttarkar	
16	20102B0021	<u> </u>	Shubham Thakur	Tic Tac Toe Game
	20102A0030	<u>_</u> A	Sanal Ramane	
	20102A0026	A	Akash Singh	
	20102A0054	A	Ishan Wagh	Age and Gender Recognition
17	2010270004		Isrian Wagii	using OpenCv
	20102B0066	В	Asad Ansari	
	20102B0046	В	Suraj Mane	Performing EDA on a dataset
18	2010200040		Garaj Mario	with
				python Libraries
	20102B0019	В	Harshal Lokhande	In a garage of the American to
40	20102B0068	В	Spandan Malpani	Imagevault : An application to
19	20102B0071	В	Aadit Chavan	encrypt and decrypt
	20102B0067	В	Yashraj Chavan	sensitive images
	21102B2001	В	Aayusha Shinde	
00	21102B2008	В	Reena Gupta	Walter Assistant Blacks
20	20102B0053	В	Gaurang Kalyankar	Voice Assistant - Phoebe
	20102B0062	В	Rugved Tatkare	
	20102A0046	Α	Mayuresh Chavan	
0.4	20102B0005	В	Tanuj Ghag	python stone paper scissors
21	20102B0031	В	Akshay Patil	game
			1.00	
	20102A0032	A	Vibodh Bhosure	
22	20102A0051	A	Prajwal Vaidya	Stock Price Predictor
	20102B0016	В	Saarang More	
	20102A0025	Α	Nihal Mishra	
23	20102B0047	В	Abhishek Jadhav	library Management System
23	20102B0030	В	Sanika Dara	iibiary wanagement System
	20102A0056	A	Sanket Gaikwad	
0.4	20102A0073	Α	Sahil Bhoir	D. Till (D. II
24	20102A0023	A	Siddhesh Varpe	Bus Ticket Booking
	20102B0054	В	Aayush Pradhan	
				
25	21102B2006 21102A2007	<u>В</u> А	Sanyog Jain Shrishti Dogra	N Body Simulation
				

VIT	Vidyalankar Institute of
MIL	Technology
Annendited A	- bu MAAC

Department of Information Technology TE Mini Project group- IT A

Accredited A+	by NAAC	TE Mini Project group- IT A	
DIV	ROLL NO	Name of the Student	Name of Faculty
IT A1	19101A0026	Hussain Rampurawala	
	19101A0050	Shahid Afridi Mandal	7
	19101A0060	Rahul Sakhalkar	7
	19101A0066	Mudassir Ansari	7
	19101A0044	Bhavesh Dhake	7
IT A2	19101A0063	Chinmay Naphade	
II AZ	19101A0008	Chinmay Chavan	7
	19101A0079	Rahul Pawar	7
	20101A2002	Sukanya Kokani	7
IT A3	18101A0021	Kirti Dhotre	7
II A3	18101A0074	Rahul chavan	7
	18101A0069	Akshaj Salvi	7
	19101A0024	Payal Gore	Dr Vinul Dalal
IT A4	19101A0048	Anushree Dandekar	Dr.Vipul Dalal
	19101A0049	Rohini Malladi	7
	20101A2003	Leon D'Souza	7
IT A5	20101A2006	Arsheen Kazi	7
	20101A2007	Samreen Kazi	7
	19101A0053	Sanika Chavan	7
IT AC	19101A0012	Mrunal Golatkar	7
IT A6	19101A0061	Ankit Hooda	7
	19101A0076	Surabhi Pathare	7
	19101A0054	Viren Rajhauns	7
IT 47	19101A0051	Alvin Pauly	7
IT A7	19101A0043	Chaitanya Sawsakde	7
	19101A0081	Omkar Narayankar	7
	19101A0003	Shraddha Patil	
IT 40	19101A0042	Asmita Patil	7
IT A8	19101A0040	Prachi Ingale	7
	19101A0027	Anuja Bhosale	7
	19101A0056	Ketan Chavan	7
IT 40	19101A0038	Pranav Mane	7
IT A9	19101A0052	Ashish Pal	7
	19101A0030	Sourabh Lavate	7
IT A10	19101A0039	Shweta dhage	7
	19101A0031	Sheetal lubal	7
	18101A0066	Kajal salgaokar	7
	20101A2008	Abdullah pathan	7
	19101A0013	Nikita Emberi	7
IT 444	19101A0014	Akshaya Mohan	7
IT A11	19101A0032	, Nidhi Singh	7
	19101A0073	Janhavi Kalwar	7
	19103A0033	Atharvaa Rane	Prof. Akshay Loke

	19101A0041	Chinmay Ranade	
IT A12	19101A0075	Hardik Bandekar	
	19101A0074	Riya Jadhav	
IT 442	19101A0078	Yash Mahajan	
	19101A0077	Pankaj Kataria	
IT A13	19101A0072	Anuj Kokane	
	19101A0047	Rishi Patankar	
	19101A0004	Mohit Santosh	
IT A14	19101A0004	Deepankar Bhade	
II A14	19101A0028	Kaartik Nayak	
	19101A0029	Aman Singh	
	19101A0059	Rimjhim Kamble	
IT A15	19101A0062	Shalaka Sonawane	
II AIS	19101A0069	Unnati Gohil	
	19101A0010	Vaishnavi Pingale	
	19101A0057	Riddhi Warale	
IT A16	19101A0005	Prajakta Ghole	
IT A16	20101A2004	Rushikesh Patil	
	19101A0068	Jash Ratanghayra	
	19101A0055	Chetan Rathod	
IT A17	19101A0071	Sagar Kori	
	19101A0036	Sanket Sahu	
	20101A2009	Tirthesh Patil	
IT A18	20101A2010	Sanchit Jadhav	
II AIO	20101A2001	Sameep Sawant	
	20101A2005	Atharva Panvalkar	
	19101A0006	Akash Deep Singh	
IT A19	19101A0082	Adarsh Pakala	Prof. Rohit Barve
II AIS	19101A0035	Siddharth Gaikwad	
	19101A0045	Vasu Bhat	
	19101A0058	Pratik Kadlak	
14 420	17101A0078	Syed Aehtisham	
IA A20	19101A0037	Vrushali Gore	
	19101A0007	Sunita Bamble	
IT A21	19101A0025	Bijal Dharne	
II AZI	19101A0009	Naveen Shukla	
	19101A0011	Aakash Mahadik	
IT A22	19101A0064	Vaibhav Dhawale	
IT A22	17101A0074	Suhail Khan	
	15101A0047	Nikhil Dhangada	