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All topics

Create

Course Exit Survey

DSA Course Exit Survey	Posted Jun 21, 2021

Unit-VI

DSA Assignment-III(Unit-VI)	Due Jun 5, 2021
Case Study - External Sort	Posted Jun 1, 2021
DSA Assignment-II(Unit-VI)	Due Jun 5, 2021
File Organization	Posted May 31, 2021
DSA Assignment-I(Unit-VI)	Due Jun 2, 2021
File Introduction	Posted May 28, 2021

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DSA Assignment-II(Unit-V)	Due May 31, 2021
DSA Assignment-I (Unit-V)	Due May 31, 2021
Multiway Search Tree, B-Tree, B+ Tree	Posted May 24, 2021
Indexing	Posted May 21, 2021

Unit-IV

Types of Search Tree	Posted May 20, 2021
DSA Assingment-III(Unit-IV)	Due May 27, 2021
AVL Tree-II	Posted May 19, 2021
AVL Tree-I	Posted May 18, 2021
Case Study - Keyword Search in Docu...	Posted May 17, 2021
DSA Assignment-II(Unit-IV)	Due May 20, 2021
OBST-II	Posted May 12, 2021
OBST-I	Posted May 11, 2021

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Continuous Assessment Sheet

DSA Continuous Assessment Sheet - J... Posted Jun 9, 2021

DSA Continuous Assessment Sheet - ... Posted May 10, 2021

Google Classroom Grades - April 2021 Posted Apr 8, 2021

SPPU Question Papers

SPPU Question Paper Solution (2015 P... Posted Mar 13, 2021

SPPU Question Paper (2015 Pattern) Posted Mar 13, 2021

Unit-III

DSA Assignment-III(Unit-III) Due Mar 31, 2021

Shortest Path Algorithm Posted Mar 19, 2021

DSA Assignment-II (Unit-III) Due Mar 24, 2021

Spanning Tree Posted Mar 17, 2021

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Graph Introduction	Posted Mar 12, 2021

Unit-II

DSA Assignment-IV: Construct a Huff...	Due Mar 8, 2021
Binary Tree Applications	Posted Mar 5, 2021
Threaded Binary Tree	Posted Mar 3, 2021
Binary Search Tree	Posted Feb 26, 2021
DSA Assignment-3 (Unit-II): If the bina...	Due Mar 3, 2021
DSA Assignment-2 (Unit-II) The inorde...	Due Feb 28, 2021
Binary Tree Traversal	Posted Feb 24, 2021
Binary Tree Operations	Posted Feb 18, 2021
DSA Assignment-I (Unit-II)	Due Feb 24, 2021
Binary Tree	Posted Feb 17, 2021

View more

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DSA In-sem Exam June 2021	Due Jun 8, 2021, 3:00 PM
DSA Unit Test-II	Due Mar 23, 2021, 10:30 ...
DSA Test-I	Due Jan 18, 2021, 12:20 ...

DSAL

DSAL Oral Question Bank	Posted Jun 10, 2021
DSAL Lab No 15, 18, 19, 20, 23	Posted Jun 3, 2021
DSAL Lab Manual	Posted Jun 2, 2021
BST, Expression Tree, DFS & BFS	Posted Jun 2, 2021
DSAL Assignment-3(Book Chap Sec)	Posted Mar 16, 2021
DSAL Assignement-3 (Book Chap Sec)	Due Mar 23, 2021
DSAL-3 (Binary Tree)	Edited Mar 3, 2021
DSAL--2 (Set ADT)	Posted Feb 23, 2021
DSAL Assignment-2 (Set ADT)	Due Mar 2, 2021

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Unit-I

DSA Assignment-III(Unit-I)	Due Feb 17, 2021
Hash Table Overflow & Skip List	Posted Feb 10, 2021
Collision Resolution Strategy-2	Posted Feb 4, 2021
DSA Assignment-2 (Unit-I)	Due Feb 12, 2021
Collision Resolution Strategy-1	Posted Feb 3, 2021
Hashing Method-2	Posted Jan 27, 2021
Hashing Methods-I	Posted Jan 13, 2021
DSA Assignment-I (Unit-I)	Due Feb 11, 2021
Hashing Introduction	Posted Jan 13, 2021
Introduction of DSA	Posted Jan 13, 2021

e-Books

e-Books of DSA	Posted Jan 13, 2021

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Syllabus (DSA & DSAL) Posted Jan 13, 2021

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MMIT

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6	Aditya More	aditya.more@mmit.edu.in	noc20-cs70	Programming, Data Structures And Algorithms Using Python
7	Aditya More	aditya.more@mmit.edu.in	noc20-cs82	Discrete Mathematics
8	Aditya More	aditya.more@mmit.edu.in	noc20-cs90	Computer Graphics
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10	Aniket Agarwal	agarwalaniket099@gmail.com	noc20-cs80	Python for Data Science
11	Aniket Agarwal	agarwalaniket099@gmail.com	noc20-me56	Robotics
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14	Amita Pal	amitapal20@gmail.com	noc20-ma47	Mathematical Modelling: Analysis and Applications
15	Amol Bhanage	amol.bhanage@mmit.edu.in	noc20-me91	Basics Of Finite Element Analysis-I
16	Amol Bhanage	amol.bhanage@mmit.edu.in	noc20-me95	Introduction to Composites
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182	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs57	Programming in C++
183	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs58	Programming in Java
184	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs80	Python for Data Science
185	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs81	Artificial Intelligence Search Methods For Problem Solving
186	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs82	Discrete Mathematics
187	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs91	Introduction to Programming in C
188	Shubham Bhole	shubhambhole1107@gmail.com	noc20-cs95	Practical Machine Learning with Tensorflow
189	Shweta Kamat	shweta.kamat@mmit.edu.in	noc20-cs60	Data Base Management System
190	Shwetal Patil	shwetal.patil@mmit.edu.in	noc20-cs57	Programming in C++
191	Shwetal Patil	shwetal.patil@mmit.edu.in	noc20-cs58	Programming in Java
192	sonal	sonal.jagtap@mmit.edu.in	noc20-cs94	C Programming and Assembly Language
193	Sourabh Garde	sourabh.garde@mmit.edu.in	noc20-cs57	Programming in C++
194	Sourabh Garde	sourabh.garde@mmit.edu.in	noc20-cs85	Data Structure and algorithms using Java
195	Sourabh Mahendra Ghadge	sourabhghadge45@gmail.com	noc20-me69	Product Design and Development
196	SUBHASH	subhash.rathod@mmit.edu.in	noc20-cs60	Data Base Management System
197	SUBHASH	subhash.rathod@mmit.edu.in	noc20-cs65	Cloud computing
198	sudhir more	sudhir.more@mmit.edu.in	noc20-me91	Basics Of Finite Element Analysis-I
199	Suraj Vasant Patil	suraj.patil@mmit.edu.in	noc20-cs58	Programming in Java
200	Suraj Vasant Patil	suraj.patil@mmit.edu.in	noc20-cs65	Cloud computing
201	Suraj Vasant Patil	suraj.patil@mmit.edu.in	noc20-cs80	Python for Data Science
202	Suraj Vasant Patil	suraj.patil@mmit.edu.in	noc20-cs94	C Programming and Assembly Language
203	swapnil chandole	swapnil.chandole@mmit.edu.in	noc20-hs43	Developing Soft Skills and Personality
204	swapnil chandole	swapnil.chandole@mmit.edu.in	noc20-hs56	Technical English for Engineers
205	Swapnil Chaudhari	swapnil.chaudhari@mmit.edu.in	noc20-cs92	Big Data Computing
206	Uday Rajendra Sonaje	uday.sonaje@mmit.edu.in	noc20-cs91	Introduction to Programming in C
207	Vaishnavi wankar	vaishnavi.wankar@mmit.edu.in	noc20-cs70	Programming, Data Structures And Algorithms Using Python
208	Vaishnavi wankar	vaishnavi.wankar@mmit.edu.in	noc20-cs85	Data Structure and algorithms using Java
209	Vaishnavi Ramesh Khandve	vaishnavikhandve1234@gmail.cor	noc20-cs58	Programming in Java
210	Vaishnavi Ramesh Khandve	vaishnavikhandve1234@gmail.cor	noc20-cs64	Computer architecture and organization

211	Vaishnavi Ramesh Khandve	vaishnavikhandve1234@gmail.cor	noc20-cs70	Programming, Data Structures And Algorithms Using Python
212	vidula suryawanshi	vidulas27@gmail.com	noc20-me64	Foundation of Computational Fluid Dynamics
213	vidula suryawanshi	vidulas27@gmail.com	noc20-me75	Fluid dynamics and turbomachines
214	vidula suryawanshi	vidulas27@gmail.com	noc20-me91	Basics Of Finite Element Analysis-I
215	Vishakha Ashok Chinchane	vishakhachinchane03@gmail.com	noc20-cs60	Data Base Management System
216	Vishakha Ashok Chinchane	vishakhachinchane03@gmail.com	noc20-cs65	Cloud computing
217	Vishakha Ashok Chinchane	vishakhachinchane03@gmail.com	noc20-cs70	Programming, Data Structures And Algorithms Using Python
218	Vishal Bandre	vishal.bandre@mmit.edu.in	noc20-cs72	Data Science for Engineers
219	Vishal Bandre	vishal.bandre@mmit.edu.in	noc20-cs80	Python for Data Science
220	Vishal Bandre	vishal.bandre@mmit.edu.in	noc20-cs95	Practical Machine Learning with Tensorflow
221	Hrushikesh evale	yevale1752000@gmail.com	noc20-me91	Basics Of Finite Element Analysis-I

SKPatil

NPTL Co-Ordinator

Marathwada Mitra Mandal's Institute of Technology PUNE 411047

Principal

"Techno - Social Excellence"

Marathwada Mitramandal's
Institute of Technology (MMIT)

"येथे बहुतांचे हित"
MMIT

Accredited with "A" Grade by NAAC
Survey No. 35, Vadgaon Shinde Road, Lohgaon, Pune - 411 047
Approved by AICTE, New Delhi, Recognised by DTE, M.S.Mumbai, Affiliated to Savitribai Phule Pune University

NAAC A

NPTL ENROLLMENT DETAILS JAN-APRIL 2021

S.no	Name	Email Id	Course Id	CourseName
1	Aadika Bhausaheb Yenare	aadikayenare2001@gmail.com	noc21-cs03	Programming in Java
2	Aditya Patil	adityasureshpatil1000@gmail.com	noc21-ma33	Advanced Partial Differential Equations
3	Akash Raju Rathod	akash8605rathod@gmail.com	noc21-me11	Conduction and Convection Heat Transfer
4	Akash Raju Rathod	akash8605rathod@gmail.com	noc21-me27	Mechatronics
5	Akash Raju Rathod	akash8605rathod@gmail.com	noc21-me31	Design Practice
6	Akash Raju Rathod	akash8605rathod@gmail.com	noc21-me64	Computational Fluid Dynamics and Heat Transfer
7	Ameya Mahesh Shinde	ameyashinde3@gmail.com	noc21-cs33	Python for Data Science
8	Amit sanjay Jadhav	amit9518728640@gmail.com	noc21-hs05	Speaking Effectively
9	Amita Pal	amitapal20@gmail.com	noc21-ma07	Numerical Methods: Finite difference approach
10	Atharv Etane	atharv.etane@mmit.edu.in	noc21-hs05	Speaking Effectively
11	Prajyot Mahadev Badadhe	badadheprajyot505@gmail.com	noc21-ce31	Hydraulic Engineering
12	CHINCHOLI BHAGESH SHARA	bhagesh.chincholi@mmit.edu.in	noc21-hs05	Speaking Effectively
13	Bharati Sandeep Nirgude	bharatinirgude@gmail.com	noc21-hs05	Speaking Effectively
14	Chaitanya Tushar kurkure	chaitanya.kurkure@mmit.edu.in	noc21-hs05	Speaking Effectively
15	Abhishek chikate	chikateabhishek54@gmail.com	noc21-hs05	Speaking Effectively
16	Deepanjaya Modak	deepanjaya36@gmail.com	noc21-cs33	Python for Data Science
17	Gore Shubham Parshuram	goreshubhamgore@gmail.com	noc21-cs02	Programming in C++
18	Urvashi Hingade	hingadeurvashi0@gmail.com	noc21-hs30	German - I
19	Kajol Anil Hulawale	hulawalekajol299@gmail.com	noc21-cs23	Data Science for Engineers
20	Jayesh Pradip Bhole	jayeshbhole1@gmail.com	noc21-ma35	Essentials of Data Science With R Software - 1: Probability
21	Kartik Atmaram More	kartik.more@mmit.edu.in	noc21-cs05	Deep Learning - IITKGP
22	Kartik Atmaram More	kartik.more@mmit.edu.in	noc21-cs14	Cloud computing
23	Kartik Atmaram More	kartik.more@mmit.edu.in	noc21-cs15	Cloud Computing and Distributed Systems
24	Kartik Atmaram More	kartik.more@mmit.edu.in	noc21-cs35	Deep Learning - IIT Ropar

25	Kartik Atmaram More	kartik.more@mmit.edu.in	noc21-cs45	Data Analytics with Python
26	Kedar Karche	kedarkarche2117@gmail.com	noc21-cs17	Introduction to Internet of Things
27	Kedar Karche	kedarkarche2117@gmail.com	noc21-cs38	An Introduction to Programming through C++
28	Kshitij Sonje	kshitij.sonje@mmit.edu.in	noc21-cs32	The Joy of Computing using Python
29	Kshitij Sonje	kshitij.sonje@mmit.edu.in	noc21-cs33	Python for Data Science
30	Kshitij Sonje	kshitij.sonje@mmit.edu.in	noc21-cs45	Data Analytics with Python
31	Kundan Vitthal Ghugul	kundanghugul2017@gmail.com	noc21-hs05	Speaking Effectively
32	Manjusha Hanumant Ghanwat	manjusha.ghanwat@mmit.edu.in	noc21-hs30	German - I
33	Neha Deepak Patil	neha.patil.2018@mmit.edu.in	noc21-cs23	Data Science for Engineers
34	Neha Deepak Patil	neha.patil.2018@mmit.edu.in	noc21-hs30	German - I
35	Neha Deepak Patil	neha.patil.2018@mmit.edu.in	noc21-mg15	Management of Commercial Banking
36	Nithish Pillai	nknithishpillai@gmail.com	noc21-ae01	Rocket Propulsion
37	Nithish Pillai	nknithishpillai@gmail.com	noc21-hs30	German - I
38	Prathamesh Madan Bhosale	pbhosale662@gmail.com	noc21-cs03	Programming in Java
39	Prathamesh Madan Bhosale	pbhosale662@gmail.com	noc21-cs21	Programming, Data Structures And Algorithms Using Python
40	Prathamesh Madan Bhosale	pbhosale662@gmail.com	noc21-hs02	Enhancing Soft Skills and Personality
41	Pranjali Deshmukh	pranjali.deshmukh@mmit.edu.in	noc21-ee10	Digital Electronic Circuits
42	Prasad doiphode	prasaddoiphode12@gmail.com	noc21-cs03	Programming in Java
43	Prasad patharkar	prasadpatharkar39@gmail.com	noc21-cs38	An Introduction to Programming through C++
44	Pratik D Jadhav	pratik.jadhav@mmit.edu.in	noc21-cs03	Programming in Java
45	Pratik D Jadhav	pratik.jadhav@mmit.edu.in	noc21-cs09	Embedded System Design with ARM
46	Pratik D Jadhav	pratik.jadhav@mmit.edu.in	noc21-cs17	Introduction to Internet of Things
47	Pratik D Jadhav	pratik.jadhav@mmit.edu.in	noc21-cs21	Programming, Data Structures And Algorithms Using Python
48	Pratik D Jadhav	pratik.jadhav@mmit.edu.in	noc21-cs38	An Introduction to Programming through C++
49	Pratik Poul	pratik.poul@mmit.edu.in	noc21-hs05	Speaking Effectively
50	Pravin Rajaram Patil	pravinpatil28497@gmail.com	noc21-hs30	German - I
51	Pritam suryawanshi	pritamjsuryawanshi@gmail.com	noc21-hs05	Speaking Effectively
52	Rushikesh Hanamant Deshmukh	rushikesh.deshmukh@mmit.edu.in	noc21-cs03	Programming in Java
53	Rushikesh Hanamant Deshmukh	rushikesh.deshmukh@mmit.edu.in	noc21-cs04	Data Base Management System
54	Rushikesh Hanamant Deshmukh	rushikesh.deshmukh@mmit.edu.in	noc21-cs41	Computer Architecture
55	Sagar Bhalerao	sagarbhalerao357@gmail.com	noc21-ee07	Analog Circuits
56	Sagar Bhalerao	sagarbhalerao357@gmail.com	noc21-ee09	CMOS Digital VLSI Design

57	Sarita pimple	sarita.pimple@mmit.edu.in	noc21-cs01	Problem Solving through Programming in C
58	Sarita pimple	sarita.pimple@mmit.edu.in	noc21-cs09	Embedded System Design with ARM
59	Sarita pimple	sarita.pimple@mmit.edu.in	noc21-cs17	Introduction to Internet of Things
60	Sarita pimple	sarita.pimple@mmit.edu.in	noc21-ee32	Sensors and Actuators
61	Sarita pimple	sarita.pimple@mmit.edu.in	noc21-ee55	Basic Electronics
62	Sarita pimple	sarita.pimple@mmit.edu.in	noc21-ee58	Introduction to Embedded System Design
63	Sayali Joshi	sayalijoshi678@gmail.com	noc21-cs16	Cryptography and Network Security
64	Sayali Joshi	sayalijoshi678@gmail.com	noc21-cs20	Introduction to Industry 4.0 and Industrial Internet of Things
65	Sayali Joshi	sayalijoshi678@gmail.com	noc21-cs31	Social Networks
66	Sayali Joshi	sayalijoshi678@gmail.com	noc21-cs35	Deep Learning - IIT Ropar
67	Dr. Shaziya R. Shaikh	shaziya.shaikh@mmit.edu.in	noc21-ma07	Numerical Methods: Finite difference approach
68	Dr. Shaziya R. Shaikh	shaziya.shaikh@mmit.edu.in	noc21-ma29	Computational Mathematics with SageMath
69	Shivam Bachewar	shivambachewar06@gmail.com	noc21-cs21	Programming, Data Structures And Algorithms Using Python
70	Kure shivshankar Sanjay	shivshankar.kure@mmit.edu.in	noc21-hs05	Speaking Effectively
71	Kure shivshankar Sanjay	shivshankar.kure@mmit.edu.in	noc21-me01	Engineering Mechanics - Statics and Dynamics
72	Kure shivshankar Sanjay	shivshankar.kure@mmit.edu.in	noc21-me32	Introduction to Robotics
73	Kure shivshankar Sanjay	shivshankar.kure@mmit.edu.in	noc21-me69	IC Engines and Gas Turbines
74	Shreeya Deshmukh	shreyadeshmukh512@gmail.com	noc21-cs23	Data Science for Engineers
75	Shreyas	shreyaskandalkar7@gmail.com	noc21-cs45	Data Analytics with Python
76	Shubham Bhole	shubhambhole1107@gmail.com	noc21-cs05	Deep Learning - IITKGP
77	Shubham Bhole	shubhambhole1107@gmail.com	noc21-cs14	Cloud computing
78	Shubham Bhole	shubhambhole1107@gmail.com	noc21-cs15	Cloud Computing and Distributed Systems
79	Shubham Bhole	shubhambhole1107@gmail.com	noc21-cs45	Data Analytics with Python
80	Shubham Bhole	shubhambhole1107@gmail.com	noc21-hs30	German - I
81	Shubham Bhole	shubhambhole1107@gmail.com	noc21-hs31	German - II
82	Sonal	sonaljagtap2915@gmail.com	noc21-cs23	Data Science for Engineers
83	Sonal	sonaljagtap2915@gmail.com	noc21-ma35	Essentials of Data Science With R Software - 1: Probability
84	Sonal	sonaljagtap2915@gmail.com	noc21-ma36	Essentials of Data Science With R Software - 2: Sampling Theory
85	sourabh bhaskar desai	sourabhdesai008@gmail.com	noc21-me07	Laws of thermodynamics
86	Sourabh Mahendra Ghadge	sourabhghadge45@gmail.com	noc21-de01	Product Design and Innovation
87	Sourabh Mahendra Ghadge	sourabhghadge45@gmail.com	noc21-de03	Design, Technology and Innovation
88	Sourabh Mahendra Ghadge	sourabhghadge45@gmail.com	noc21-de06	Understanding Design

89	swapnil chandole	swapnil.chandole@mmit.edu.in	noc21-hs05	Speaking Effectively
90	Varshiket Hankare	varshiket1@gmail.com	noc21-hs05	Speaking Effectively
91	Hrushikesh evale	yevale1752000@gmail.com	noc21-cs33	Python for Data Science

SKPatil

NPTL Co-Ordinator

Marathwada Mitra Mandal's Institute of Technology PUNE 411047

Principal

An initiative of Ministry of Human Resource Development
under the National Mission on Education through ICT
www.vlabs.iitb.ac.in

Santosh Noronha
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(22)25767238 / 25764246
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NCID - 90

13th January 2020

Ref No: VL/MP2/NC90/20

To,
Dr. Rupesh V. Bhortake
Marathwada Mitra Mandals Institute of Technology
Sr.No. 35, Plot No. 5/6, Lohgaon, Pune â€“
411047,
Pune - 411047, Maharashtra

Dear Sir / Madam,

With reference to your Expression of Interest for Virtual Labs Nodal Centre (VLNC), it gives me immense pleasure to designate your college as a Nodal Centre for Virtual labs. As recommended by you, **Prof. Sonali S Muley** has been nominated as the Nodal Coordinator and **Prof. Yamini P. Warke** has been nominated as the Nodal Technical Coordinator from your college. This approval is valid up to 31st Dec 2020 and is subject to the Terms and Conditions attached and any subsequent directives as issued by MHRD.

Kindly acknowledge receipt of this letter and acceptance of the Terms and Conditions.

We thank you again for your interest in the Virtual Labs project and appreciate your endeavour in the service of the student community. Wishing you all the best!

Sincerely,

Prof. Santosh Noronha

IIT Bombay | Virtual

Expression of Interest for setting up Virtual Labs Nodal Centre (VLNC) 2021

ELIGIBILITY

1. The Virtual Labs Nodal center (VLNC) should be a Central/State University or Institute/college approved by **AICTE/UGC.**

2. The Institute has to provide a designated/common lab space having **45 PCs or more,** with a **minimum 2 Mbps** internet broadband connection, A.V facility and a multimedia projector.

3. In the event that the internet network operates behind a firewall, the VLNC undertakes to open specific communication ports to facilitate VLab network traffic. Specifically ports 3306, 5900, 5902, and 8700 will need to be opened.

4. http://www.java.com/en/download/index.jsp must be downloadable through the internet and **Gmail / Facebook** should be accessible. (a feature of single sign-on using these apps to access certain labs)

Terms and Conditions

1. There is **no financial liability** of any party for using Virtual Labs. It is free to use.

2. The VLNC **cannot charge** students for the use of Virtual Labs.

3. One Nodal Coordinator & Nodal Technical Coordinator, for Virtual Labs should be nominated by the Head of the Institute (Director / Principal) at the respective Nodal Centre.

4. Renewal of EOI form is subjected to **fair usage** of the Virtual Labs.

Nominations and Responsibilities of the Nodal Center

1. Nodal Coordinator and Nodal Technical Coordinator will be appointed at each Nodal Centre by the Head of the Institution.

2. He/she should continue with his/her responsibilities for at least one semester.

3. Requests for change of Nodal Coordinator and Nodal Technical Coordinator will not be accepted in the middle of the semester, except in extreme circumstances, for example where the Coordinator proceeds on leave or quits the Institute. Nomination of a new Nodal Coordinator and Nodal Technical Coordinator will be accepted upon receiving confirmation from the previous Nodal Coordinator and Nodal Technical Coordinator.

...es & Responsibilities of the Nodal Coordinator /VLNCC

1. The Nodal Coordinator (NC) will be the main interface between the Outreach Team of Virtual Labs, IIT Bombay and the Nodal Centre.

2. He/She will **conduct training** sessions for students and faculty members on in his/her Institute.

3. NC may take help from other faculty members and support staff to coordinate training programmes in their respective institutes.

4. He/She is required to work towards **making Virtual Labs popular** among the students.

5. He/She is required to help in **Field Testing** the labs and in collation of end-user **Feedback** for the experiments of different Labs.

6. He/She is required to help in testing and debugging Virtual Labs while using them.

7. **A monthly progress report regarding Virtual Labs usage by the students must be submitted by the Nodal Coordinator to the IIT Bombay, duly signed by the Director/Principal of the Institute.**

8. Should conduct outreach workshops. The targeted attendees should be approximately 100. The list of participants should be shared with IIT Bombay.

9. RNCs will coordinate workshops. If required, the Outreach team from IIT Bombay may be invited, expenses of which to be incurred by the Nodal center.

10. The number of lab usages is expected to be greater than **8000** per year.

11. The Outreach Team, IIT Bombay should be informed about workshop dates and other training sessions organized by the Nodal Centre.

12. The Nodal Coordinator should **submit a report** of each workshop conducted, with relevant photographs. A template for the report will be shared by IIT Bombay.

13. The NCCs will be responsible for engaging with the nearby Polytechnic Colleges. This will be followed by extensive on-site workshops and training.

14. The exchange of ideas and discussions take place during the NCCs meetings, which will be held regularly. Regular workshops and teacher-training would also form a part of this activity.

15. Maintain a regular communication with IITB, Regional Coordinator and the Regional Technical Coordinator.

...es & Responsibilities of the Nodal Technical Coordinator (VLNCTC)

1. Should be a faculty with technical experience in Networking, Troubleshooting & Web Programming Skills.
2. Must assist the Nodal Center's technical set-up (computer lab/center) during the workshops.

3. Mentor students & faculties towards, new virtual labs development. (developing web based animations, using HTML, Javascript & other FOSS technologies)

4. Should help the other Nodal Center, as well as the departments (in-house) in smooth conduction of the Virtual Labs activities.

5. Should demonstrate team building, problem solving skills and provide technical assistance during the new virtual labs development, at the Nodal Center.

6. Should be ready to travel to the other Nodal centers as required, or or as per the directives from IIT Bombay, for the meetings & workshops.

7. Maintain regular communication with the technical & development team of IIT Bombay.

Responsibility of the Outreach Team

1. To provide training and hands on practice on Virtual Labs to Nodal Coordinators and supporting staff.

2. Training / Meeting session will be conducted at any Nodal Centre or at IIT Bombay, as per the advertised date and time.

3. Maximum two members with Nodal Coordinator from each Nodal centers may attend the training session.

4. No TA/DA will be given to Nodal Coordinators and supporting staff for attending training session.

5. Onsite support may be given upon request by Regional Nodal centers.

6. The Outreach team will keep the Nodal centers informed about the Labs under development and newly developed Labs in Virtual Labs.

7. The Outreach team may visit Nodal centers on workshop day to ensure smooth conduct of the workshop.

Disclaimer: The terms for the next phase are reviewed by MHRD. These terms are therefore potentially subject to change. Currently being reviewed by MHRD.

...d Trial Methodology

1. Virtual Labs Team organises Workshop as well as hands on practice session on Virtual Labs for various Science & Engineering Institutions, at a Nodal center / Regional Centre.

2. Department wise demonstrations are given to the students by Nodal/Regional coordinators.

3. Labs are demonstrated according to the syllabus of the ongoing semester.

4. Faculty members of the concerned department should be present during the demonstration.

5. After the demo of the Virtual Labs, hands on sessions are conducted.

6. On completion of the demo and hands on, the faculty members and the students have to submit the feedback forms to the Virtual Labs team.

7. Faculty members participate in the workshop and are encouraged to express their interest for, nominating their institutes as Nodal center for Virtual Labs(**By sending the Head of the institutes Email, Phone, Full Name and Name of the Institute, to IITB Team/Nodal Coordinator).**

IIT Bombay holds the final decision for the approval of the institute as a Nodal center/Regional.

8. There is a provision of EOI (Expression of Interest) form to become a Nodal center of Virtual Labs.

9. The EOI form contains all the details, eligibility criteria, role of Nodal center as well as the Nodal coordinator. The Credentials to fill the same shall be sent to the Head of the Institute.

.hodology for conducting workshop/lab session at Nodal Centre

Before workshop/Lab Session

While planning the activity, we follow the procedure given below:

1. Upload the **Semester Planner** well in Advance before conducting the workshop.

2. Identify Labs for students related to their syllabus.

3. In case a complete Lab is not available, a mixed combination of experiments to match their studies is listed by **respective department** coordinators.**sort out 10-15 such experiments and test it** on random machines in the computer lab.

Nodal Coordinator to login to their account and must **Add Workshop** for more details visit the outreach portal and look for Tutorials.

5. Conduction of workshop.

*** For more details refer the tutorial on the outreachportal http://vlabs.iitb.ac.in/outreachportal/index.php**

On the day of workshop/Lab Session

Being Nodal/Departmental Coordinator, you can address the students on following points (With approximate timeline):

1. Addressing Students (Welcome to .... (your college name and about your college) .(1 minute)
2. Introduction to Virtual Labs (2 minutes)
3. Introduction to Website vlab.co.in (1 minute).
4. Students to Subscribe the Facebook Page https://www.facebook.com/VlabsIITB/ (1minutes)
5. Instruction for Feedback Form. (2 minutes),Students must be shown the Feedback form link : **http://vlabs.iitb.ac.in/feedback/**
6. Respective subject department Coordinator/faculty then briefs them about experiments assigned. List out all experiments to them, to be filled in the Feedback form. (1 min),
7. Hands on Session (1 hrs, 30 minutes) under the guidance of the Team.
8. Submission of the online Feedback Form by the Users.
9. Nodal coordinators/faculty. Make sure the forms are duly filled (form the online dashboard)

After the workshop/Lab Session:

1. Nodal Coordinators must validate the feedback forms, check if the number of Feedbacks are equivalent to the users in the attendance sheet.
2. Prepare the Usage reports. Get it signed by the Head of the Institute. (a copy to be kept with Nodal Coordinator) For instructions see the tutorial on the Outreach Portal website.
3. Upload the softcopy on the outreach portal & post the duly signed hard copies to IITB address.
4. Upload One picture of the event (group photos of workshop) during uploading the Reports on the outreach portal.
5. Report if any issues occurred for conducting experiments to IITB Vlabs team.

...ional Policies

1. The Nodal Centre cannot use IIT Bombay's brand name in any form (text, logo , photo) for the promotion of Virtual Labs without seeking official permission for, workshops, events or any kind of promotions.

2. The Nodal Centre cannot use Virtual Labs Logo for workshops, events or any kind of promotions without seeking official permission from IIT Bombay.

3. Any event Rollout/Outreach to be conducted needs to be logged on the outreach portal well in advance.

4. The Nodal/Regional centre has to inform and seek permission well in advance before publishing the Press Release, Event Brochures/Flyers, Research Papers, Any kind of advertisement on Print and Online media (Social Media)

5. The Nodal / Regional Centre has to share the details of the participants and the organizer of any event related to Virtual Labs, with the IIT Bombay.

6. Nodal/Regional Centres cannot promote contents from VLabs with an intention to monetize/commercialize.

7. IIT Bombay may disapprove the Nodal/Regional Centre, if found violating the above mentioned policies and the T&C.

Expression of Interest for setting up Virtual Labs Nodal Centre (VLNC) - 2021

Name of the Institute: Marathwada Mitra Mandals Institute of Technology

Address: Sr.No. 35, Plot No. 5/6, Lohgaon, Pune â€" 411047, Pune - 411047, Maharashtra

Affiliated to: Savitribai Phule Pune University

Approved By: AICTE **Approval Number:** 1-9847593

Branch of Engineering/Science and Number of Students / Faculties:
Basic and Applied Sciences - 150 / 7 **Civil Engineering - 20 / 2** **Computer Engineering - 306 / 15**
Mechanical Engineering - 252 / 12 **Mechatronics Engineering - 25 / 2**
Total: 753 / 38

Total number of computers in lab (one or more labs) within the institute: 487

Total number of computers available for Virtual Labs use: 50

Internet Bandwidth (in mbps): 50

Head of Institute/Principal: Dr. Rupesh V. Bhortake

Email: principal@mmit.edu.in **Mobile:** 9049008003

Nodal Coordinator: Prof. Sonali Muley

Email: sonali.muley@mmit.edu.in **Mobile:** 9881142476

Department: Computer Engineering

Nodal Technical Coordinator: Prof. Komal Surawase

Email: komal.surawase@mmit.edu.in **Mobile:** 8600934903

Department: Computer Engineering

Certified that

a) The institute is recognized by AICTE/UGC
b) The institute has necessary and adequate infrastructure to host Virtual Labs.
c) Strict adherence to standard lab procedures and cyber security laws will be followed.
d) Virtual Labs, IIT Bombay may withdraw/stop connectivity without giving any prior notice or reasons.
e) This EOI for Virtual Labs usage is valid upto 31st December 2021 and requires renewal by IIT Bombay for continued support.

M. M. INSTITUTE OF TECHNOLOGY PUNE-47

Head of Institute / Principal **Date:** Dec 24, 2020

Principal
Marathwada Mitra Mandal's
INSTITUTE OF TECHNOLOGY,
Lohegaon, Pune-47

Signature & Stamp

1. SCAN and Upload the duly signed original SOFT COPY of this EOI.
2. Keep the HARD COPY with you in a Virtual Labs file for the record.