



# MEMORANDUM OF UNDERSTANDING

*BETWEEN*

Partner 1	Partner 2
	
<b>Dayanand Science College, Barshi Road, Latur, Maharashtra, India</b>	<b>SWAYAM-NPTEL run by IIT Madras, IIT, Bombay Ministry of Human Resource Development, Government of India</b>

The collaboration between Dayanand science College, Latur and IIT Madras, IIT Bombay is established in Dec-2017. The Dayanand Science College invited scientist from IIT in Inspire, Refresher course, Lecture workshop etc.

The Dayanand Science College, Latur establish NPTEL local chapter on December 2017. According to this our Principle prepare committee to run online NPTEL course in college. The NPTEL local chapter web page of Dayanand Science College being created by NPTEL on it: <http://nptel.ac.in/localchapter>.,  
[https://nptel.ac.in/LocalChapter/college\\_homepage.php?collegeid=1476](https://nptel.ac.in/LocalChapter/college_homepage.php?collegeid=1476)

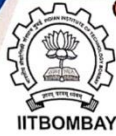
<https://nptel.ac.in/LocalChapter/ack3/1.php>

The main benefits of participating in an online course under SWAYAM -NPTEL are, Students: credit transfer and better resume, Faculty: Refresher courses, AICTE recognized FDP courses, Working professionals: For upskilling and reskilling.

1. The following are the collaboration activities run with IIT.

<b>Sr no</b>	<b>Name of the activity</b>	<b>Beneficiary</b>	<b>Number of beneficiaries</b>	<b>Impact</b>
<b>1</b>	<b>NPTEL online courses</b>	<b>Students and faculty</b>	<b>15</b>	<b>15 person passed</b>
<b>2</b>	<b>Vidhi Subhash palsapure, MSc Microbiology student of DSCL</b>	<b>students research Fellowship sanctioned &amp; completeddurin g 2019 - 20 at IIT, Mumbai</b>	<b>01</b>	<b>Research Work completed by DSCL student. This student received gold medal on the university examination</b>
<b>3</b>	<b>Mentors from IIT Mumbai regularly invited to DSCL for Inspire science camp, lecture workshop, refresher courses</b>	<b>Students &amp; facilities</b>	<b>428</b>	<b>Scholer and fast learners are motivated by the mentors from IIT to choose research as their personal career in future.</b>

1. NPTEL certificates



# CERTIFICATE OF PARTICIPATION

PRESENTED TO

RAVINDRA SANDIPAN SHINDE

DAYANAND SCIENCE COLLEGE

FOR PARTICIPATION IN THE NPTEL SPOC WORKSHOP CONDUCTED  
ON JANUARY 12, 2018, BY IIT BOMBAY

PROF. R.K. SHEVGAONKAR  
PRINCIPAL INVESTIGATOR, NPTEL IIT BOMBAY



## NPTEL-AICTE Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHREYAS SHRIDHARRAO MAHURKAR**



for successfully completing the course

**Medicinal Chemistry**

with a consolidated score of **62 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras

(Jan-Apr 2019)

Prof. Dileep N. Malkhede  
Advisor-I (Research, Institute & Faculty Development)  
All India Council for Technical Education

Roll No: NPTEL19CY05S31680016

To validate and check scores: <http://nptel.ac.in/noc>

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**SHRINATH KENDRE**  
for successfully completing the course  
**Calculus of One Real Variable**

with a consolidated score of **83** %

Online Assignments	21.25/25	Proctored Exam	61.5/75
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Total number of candidates certified in this course: **283**

**Prof. Rajesh M. Hegde**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19MA18S11610117

To validate and check scores: <https://nptel.ac.in/noc>



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**PRAMOD RAJARAM BHOSLE**  
for successfully completing the course  
**Calculus of One Real Variable**

with a consolidated score of **71** %

Online Assignments	20.00/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **283**

**Prof. Rajesh M. Hegde**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19MA18S11610119

To validate and check scores: <https://nptel.ac.in/noc>



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**SANDHYA KENDRE**  
for successfully completing the course  
**Calculus of One Real Variable**

with a consolidated score of **66** %

Online Assignments	21.25/25	Proctored Exam	45/75
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Total number of candidates certified in this course: 283

**Prof. Rajesh M. Hegde**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19MA18S11610121

To validate and check scores: <https://nptel.ac.in/noc>



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**PIMPLE NISHANK SUDHAKAR**  
for successfully completing the course  
**Introduction to Abstract and Linear Algebra**

with a consolidated score of **71** %

Online Assignments	18.75/25	Proctored Exam	52.04/75
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Total number of candidates certified in this course: 538

Aug-Oct 2019  
(8 week elite)

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL19MA23S41710071

To validate and check scores: <https://nptel.ac.in/noc>



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**RAHUL ASHOKRAO MORE**  
for successfully completing the course  
**Genetic Engineering: Theory and Application**

with a consolidated score of **62** %

Online Assignments	12.97/25	Proctored Exam	48.75/75
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Total number of candidates certified in this course: 311

Jul-Oct 2019  
(12 week course)

**Prof. Hemant B Kaushik**  
Head, Centre for Educational Technology  
& NPTEL Coordinator  
IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL19BT15S41710058

To validate and check scores: <https://nptel.ac.in/noc>





Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHREYAS SHRIDHARRAO MAHURKAR**

for successfully completing the course

**Medicinal Chemistry**

with a consolidated score of **62** %

Online Assignments	20.72/25	Proctored Exam	41.33/75
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Total number of candidates certified in this course: **191**

Prof. A. Ramesh  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2019  
(12 week course)

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL19CY05S31680016

To validate and check scores: <http://npTEL.ac.in/noc>



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHARAD CHANDRAKANT GANGAWANE**

for successfully completing the course

**Cell Culture Technologies**

with a consolidated score of **75** %

Online Assignments	17.50/25	Proctored Exam	57/75
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Total number of candidates certified in this course: **950**

Prof. T. V. Prabhakar  
Chairman  
Centre for Continuing Education, IITK

Feb-Apr 2019  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19BT06S31680012

To validate and check scores: <http://npTEL.ac.in/noc>



# NPTEL-AICTE Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to


**SHARAD CHANDRAKANT GANGAWANE**

for successfully completing the course  
**Cell Culture Technologies**

with a consolidated score of **75 %**

  
Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras

(Feb-Apr 2019)

  
Prof. Dileep N. Malkhede  
Advisor-I (Research, Institute & Faculty Development)  
All India Council for Technical Education

Roll No: NPTEL19BT06S31680012

To validate and check scores: <http://nptel.ac.in/noc>

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



# NPTEL-AICTE Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to


**SHARAD CHANDRAKANT GANGAWANE**

for successfully completing the course  
**Human Molecular Genetics**

with a consolidated score of **51 %**

  
Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras

(Jan-Feb 2019)

  
Prof. Dileep N. Malkhede  
Advisor-I (Research, Institute & Faculty Development)  
All India Council for Technical Education

Roll No: NPTEL19BT05S11520032

To validate and check scores: <http://nptel.ac.in/noc>

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHARAD CHANDRAKANT GANGAWANE**

for successfully completing the course

**Human Molecular Genetics**

with a consolidated score of **51 %**

Online Assignments	10.83/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: **939**

*T. V. Prabhakar*

Prof. T. V. Prabhakar  
Chairman  
Centre for Continuing Education, IITK

Jan-Feb 2019  
(4 week course)

*Satyaki Roy*

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19BT05S11520032

To validate and check scores: <http://nptel.ac.in/noc>



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHARAD CHANDRAKANT GANGAWANE**

for successfully completing the course

**Bioengineering: An Interface with  
Biology and Medicine**

with a consolidated score of **55 %**

Online Assignments	15.00/25	Proctored Exam	39.75/75
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Total number of candidates certified in this course: **271**

*Sridhar*

Prof. Sridhar Iyer  
Head CDEEP & NPTEL Coordinator  
IIT Bombay

Aug-Sep 2018  
(8 week course)



Indian Institute of Technology Bombay



Roll No: NPTEL18BT16S21510014

To validate and check scores: <http://nptel.ac.in/noc>





Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHARAD CHANDRAKANT GANGAWANE**

for successfully completing the course

**Industrial Biotechnology**

with a consolidated score of **61 %**

Online Assignments	15.44/25	Proctored Exam	45.75/75
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Prof. Anupam Basu  
NPTEL Coordinator  
IIT Kharagpur

Total number of candidates certified in this course: **315**

Jul-Oct 2018  
(12 week course)

A. Goswami

Prof. Adrijit Goswami  
Dean  
Continuing Education, IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL18BT19S11580006

To validate and check scores: <http://nptel.ac.in/noc>



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SANKET MUKUND BANSODE**

for successfully completing the course

**Industrial Biotechnology**

with a consolidated score of **40 %**

Online Assignments	11.84/25	Proctored Exam	27.75/75
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Prof. Anupam Basu  
NPTEL Coordinator  
IIT Kharagpur

Total number of candidates certified in this course: **315**

Jul-Oct 2018  
(12 week course)

A. Goswami

Prof. Adrijit Goswami  
Dean  
Continuing Education, IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL18BT19S11580042

To validate and check scores: <http://nptel.ac.in/noc>



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**BIRADAR VAISHALI BHAGWAN**

for passing the course

**Computer Networks and Internet Protocol**

with Score\* **65** %



*A. Goswami*

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>



**Elite**

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**MADLIYAR SHASHI SUBRAMANNM**

for successfully completing the course

**Basics in Inorganic Chemistry**

with a consolidated score of **60** %

Online Assignments	24.17/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **390**

Jan-Feb 2021  
(4 week course)

*Sridhar*  
**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No:NPTEL21CY10521880046

To validate and check scores: <https://nptel.ac.in/noc>

2. Vidhi Subhash Pulsapure MSc microbiology student received research project fellowship from IIT, Mumbai in 2019 - 20. She completed the project under this Fellowship.

3. The following are the mentors from IIT, Mumbai visited DSCL as resource person in Inspire internship science camp, refresher courses, Lecture workshops, seminar and conferences.

<b>Sr. No.</b>	<b>Name of Mentors</b>	<b>Activities</b>
1.	Prof. Sharad sane	Refresher course in Mathematics (11 June – 25 June 2018)
2.	M.S. Balakrishna	Inpire Internship Science Camp (2-6 June 2016)
3.	Prof. E. Chandrasekhar	Inpire internship science camp (2-6 June 2016)
4.	Prof. Dr. Sudhir R. Ghorpade	Inpire internship science camp (2-6 June 2016) Math lecture Workshop 911-13 June 2019)
5.	Prof. Dr. Ravindra D. Gudi	Inpire Internship Science Camp (26-30 sept. 2016)
6.	Dr. Chebrolu Pulla Rao	Inpire Internship Science Camp (2-6 Nov 2016)
7.	Prof. Dr. Prasenjit Ghosh	PCM Lecture Workshop (24-26 Dec. 2016)

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**Name** : **Sudhir R. Ghorpade**  
**Qualification** : Ph.D., F.N.A.Sc.  
**Address** : Dept. of Mathematics  
IIT Bombay, Powai, Mumbai - 400076.  
**Residential Address** : B-270, Nilgiri, IIT Powai,  
Mumbai - 400076.  
**Mobile No.** : 9892768162  
**E-mail Address** : srg@math.iitb.ac.in



#### Name and Addresses of Mentors

**Name** : **Prof. E. Chandrasekhar**  
**Qualification** : Ph.D.  
**Address** : Department of Earth Sciences  
IIT Bombay, Powai, Mumbai - 400076.  
**Residential Address** : House # B-171, Building ANANTA, IIT Campus,  
Powai, Mumbai - 76.  
**Mobile No.** : 9820917257  
**E-mail Address** : esekhar@iitb.ac.in



#### Name and Addresses of Mentors

**Name** : **M. S. Balakrishna**  
**Qualification** : Ph. D. in Chemistry  
**Address** : Dept. of Chemistry  
IIT Bombay, Powai, Mumbai 400076  
**Residential Address** : 303, 6th floor B-24, IIT Bombay  
**Mobile No.** : 09930807181  
**E-mail Address** : krishna@chem.iitb.ac.in



**Name** : **Prof. Dr. Ravindra D. Gudi**  
**Qualification** : Ph.D. (Chemical Engineering)  
**Address** : Department of Chemical Engineering,  
IIT Bombay, Powai, Mumbai - 400076  
**Residential Address** : C-234, Shivai K Bldg., IIT Campus, Powai,  
**Mobile No.** : +91 -94448051317, 9769267231  
**E-mail Address** : ravigudi@che.iitb.ac.in



#### Name and Addresses of Mentors

**Name** : **Dr. Chebrolu Pulla Rao**  
(FNASc., FASc., FNAJC)  
**Qualification** : Ph.D.  
**Address** : Chair Professor,  
Department of Chemistry IIT Powai,  
Mumbai.  
**Residential Address** : B-289, IIT Campus, Powai, Mumbai - 400076  
**Mobile No.** : 9969022554  
**E-mail Address** : aprao@iitb.ac.in



#### Name and Addresses of Mentors

**Name** : **Prof. Dr. Prasenjit Ghosh**  
**Qualification** : Ph.D.  
**Address** : Department of Chemistry,  
IIT Bombay, Powai, Mumbai - 400076  
Maharashtra State.  
**Residential Address** : B - 87, C/o Multi - Storey Bldg.,  
IIT Bombay, Powai, Mumbai - 400076.  
**Mobile No.** : 9820202914  
**E-mail Address** : pghosh@chem.iitb.ac.in



## Contact Persons:

**Dr. R. S. Shinde**

**Coordinator, Department of Chemistry,**

**Dayanand Science College, Latur.**

**Dr. Jaiprakash Dargad**

**Principal,**

**Dayanand Science College, Latur**



# NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING

A JOINT VENTURE BY INDIAN INSTITUTES OF TECHNOLOGY & INDIAN INSTITUTE OF SCIENCE

## NPTEL

2017-12-26

To  
The Principal  
DAYANAND SCIENCE COLLEGE  
PRAKASH NAGAR LATUR  
LATUR - 413512  
MAHARASHTRA

Dear Sir/Madam,

Sub: Establishing SWAYAM NPTEL Local Chapter in your college

Greetings from the NPTEL office.

This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.

The **Single Point of Contact (SPOC)** nominated from your college is

**Name of SPOC:** PROF. RAVINDRA S. SHINDE  
**Designation:** ASSISTANT PROFESSOR  
**Department:** CHEMISTRY  
**Contact No(s):** 9850150872  
**E-mail id:** rshinde.33381@gmail.com

We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be routinely updated with all the latest NPTEL initiatives which then may be circulated among the students.

We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and your institution will have a separate page on it (<http://npTEL.ac.in/LocalChapter>).

Thanking you.

Sincerely

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT MADRAS