Course outline

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There are new announcements since your last visit. Please have a look.

NPTEL: Latest update on Exams for Jan 2020 semester

2020-06-07

Dear learner,

Hope you are safe and doing fine in the current situation.
This is with regard to the Jan-Apr 2020 NPTEL exams. Based on the feedback received the last couple of days from several stakeholders such as learners, colleges, etc, we have decided on the following:

Cancelling the exams scheduled for 23/24/25 June through TCS
The exams scheduled on 23/24/25 June, stand cancelled and the choices learners had opted for - In person exams or Refund, stand cancelled.

1. Attested Assignment Score sheet: For ALL exam registered candidates:
We will issue an attested assignment score sheet letter, regardless of your assignment score - which can be used as appropriate.

2. Modified Pass certificate: Based on Average Assignment score
We will calculate the Average Assignment score as follows:
Average of the best 3/6/8 assignments for courses of duration 4/8/12 weeks (or as announced apriori in the course in case of changes)
If this score >= 40/100 (which is also one condition for certificate eligibility), we will issue a modified Pass certificate.
If this score <40/100, this certificate will not be issued.

This certificate will not be counted towards the Domain certification as a completed course. Similarly, we will not be issuing an AICTE-NPTEL FDP certificate also based on this.

3. A generic letter from our side - request to College authorities to accept this as per their requirement will be put up on nptel.ac.in, can be downloaded and used
We will put up a pdf in which we will explain the assignment score sheet and the Pass certificate and request them to accept and process further. We will also independently approach the ministry, AICTE and UGC to convey this new process for Jan 2020 semester to all universities.

Regarding the conduct of exams in future:
Independent of the Pass certificate and the Attested assignment score sheet mentioned above, in order to plan for a possible exam sometime in the future, we will share another form after the above activities are completed, with 2 choices:

a. **Cancel and refund** - Those who are very sure that they would not want to appear for regular proctored NPTEL exams and want a refund - can choose this. We will refund the money. We may not be able to open registrations again in this case if you wish to appear for it later.

b. **NPTEL can retain fees for exams whenever organized for Jan 2020 courses** -Those who would like to wait and take the exam with us - whenever we conduct it - can opt for this choice and we will keep the fees with us. Writing this and passing as per the certification criteria laid down will get them the regular NPTEL certificate. This will alone be counted towards the Domain certificate and issue of the FDP certificate.

The mode of conducting the exams, date of the exams, etc - we will inform as the situation evolves.
For any queries: please contact support@nptel.iitm.ac.in

-NPTEL Team

UPDATE ABOUT NPTEL JAN-APR 2020 EXAMS

2020-06-06

Dear Learner,

This announcement is only for those who registered for final exam.

NPTEL Committee has decided to discontinue the Online Remote Proctored Exam Option.

Hence, you now have to choose between the following 2 options.

OPTION 1: IN PERSON PROCTORED EXAM AT FIXED EXAM CENTRES
We will be conducting exams with TCS iON (like we normally do) for which you have to appear in person at the designated exam centre in the city chosen by you.

The current exam dates fixed for this are:

Exams scheduled on the below date	Rescheduled - **New Date**
March 29, 2020	June 23, 2020
April 25, 2020	June 24, 2020
April 26, 2020	June 25, 2020

Important:

1. The above is subject to Government restrictions prevalent in various states at that point in time.
2. If you choose this option, the responsibility to reach the centre lies with you.
3. If the exams do get postponed due to unavoidable circumstances, exams may be conducted in August 2020 or maybe even as late as in October 2020.
4. If you choose to write the exam through this option and the exam is conducted by us in a particular city and you miss it, refund will NOT be possible as all arrangements would have been made with the vendor for the same and hence payment made to the vendor.
5. If you do pass the course as per the criteria mentioned, certificate will be the same as we normally give.
6. We will ensure you will be able to write the exams you have registered for without a clash in slots.
7. NPTEL, along with the exam partner, will make sure that exams are conducted by following appropriate social distancing norms and hygiene rules as required in the current situation.
8. We will try and ensure conduct of exam in the cities given in the list, but if in case for any unforeseen reason, we are unable to conduct the exam in the city chosen by you, we will refund 80% of the exam fee. In this case, you will not get the certificate from us.

Same final score calculation and pass criteria as mentioned in the Course introduction page will be applied and NPTEL certificates will be given as per that.
Exam fees will not be refunded if you select this option and later do not/cannot take the exam.

In the link given below, you may choose exam cities where you prefer to write exams.

OPTION 2: CANCEL EXAM AND TAKE A REFUND
NPTEL certificate will NOT be issued in this case and you will only get an attested assignment score sheet. We will create and share a letter stating the Assignment scores obtained in the course, by the end of June, 2020.

We will refund 80% of the exam fees you had paid, with 20% retained by NPTEL towards admin costs. Refund will be initiated only after exams are concluded (after June 25).

THOSE WHO DO NOT FILL THIS FORM
By default, your choice will be taken as: **CANCEL AND REFUND**

LAST DATE TO FILL THIS FORM: JUNE 7, 2020 - 5PM
Link: bit.ly/NPTELExamOptionForm (Please open from Incognito window)

For any queries, please write to support@nptel.iitm.ac.in

- NPTEL Team

NPTEL:New Exam dates and options for Jan-Apr 2020

2020-06-03

Dear Learner,

NPTEL exams scheduled for 29 March, 25/26 April 2020 have not been conducted so far, owing to the prevailing situation.
We now have the following options for you for the courses chosen by you to write exams:

OPTION 1: REMOTE PROCTORED ONLINE EXAM (can be taken from your current residence or any other suitable place)
You only need a laptop/desktop, webcam, mic and good internet connection to take this exam. Possible dates :12 June 2020 to 21 June 2020 (actual date for every course will be finalised once we get the number of learners opting for this)
If you pass, you will be eligible for NPTEL course certificate

OPTION 2: IN PERSON PROCTORED EXAM AT FIXED EXAM CENTRES
We will be conducting exams with TCS iON (like we normally do) for which you have to appear in person at the designated exam centre in the city chosen by you.
The exam dates will be 23,24,25 June 2020 for this.
If you pass, you will be eligible for NPTEL course certificate

OPTION 3: CANCEL EXAM AND TAKE A REFUND
NPTEL certificate will NOT be issued in this case and you will only get an attested assignment score sheet.
Last date to fill this form: June 7 2020 - 10am
Link to the form :bit.ly/NPTELExamOptionForm
****

More details about the options:
Option 1: What is required to choose Online remote proctored exam?
We have finalized an online exam vendor with remote proctoring to conduct exams for those who have the following facilities:

- A laptop/desktop with webcam, audio and stable internet connection.
- You can write the exam from wherever you are.
- Please check system requirements shown below.

S.No.	Requirement	Description	
1	System	A laptop or desktop is required with a proper functional camera and microphone	
2	Operating System	Window 7 and above	
3	Network	Candidates must have a stable internet connection at their end with concurrent bandwidth of 512 kbps.	
4	Supported Browsers	We support the following browsers:	
		Google Chrome	Needs to be updated to the latest version
		Mozilla Firefox	
5	Antivirus Or Firewall	Antivirus or Firewall (if any) apart from the Windows default one needs to be **disabled**	

If you wish to take the remote proctored online exam online, please follow the following steps.
STEP 1:
Mock Test
You will receive an email with Link for a Mock Test. Please go ahead and use this link to test your system requirements and compatibility.

- The duration of this Mock test will be 10 mins.
- This Mock Test has to be completed in order to check your system's compatibility to take the remote proctored online exam.
- Hence, completing this Mock test is Mandatory for those who wish to take the remote proctored online exam.
- Those who do not complete the Mock Test successfully will not be able to participate in the remote proctored online exam.

STEP 2:
If you are able to successfully complete the Mock test and submit the answers to the dummy questions, you can opt for the remote proctored online exam.
Please note:
If you are unable to complete the mock test (due to system infrastructure mismatch - webcam not working or insufficient internet speed,etc) we will not be able to include you for the online remote proctored exam.
Please choose the Backup option in case the trial for the online remote proctored exams to be held this week do not go well.You can either opt for in-person exams at designated centres or cancel the exam and take a refund.
****
OPTION 2: IN PERSON PROCTORED EXAM AT FIXED EXAM CENTRES

We will be conducting exams with TCS iON (like we normally do) for which you have to appear in person at the designated exam centre in the city chosen by you.
The exam dates will be 23,24,25 June 2020 for this.

- We will ensure you will be able to write the exams you have registered for without a clash in slots.
- We, along with the exam partner, will make sure that exams will be conducted by following appropriate social distancing norms and hygiene rules as required in the current situation.
- It will be your responsibility to ensure that you reach the centre to give the exam.
- We will try and ensure conduct of exam in the cities given in the list, but if in case for any unforeseen reason, we are unable to conduct the exam in the city chosen by you, we will refund 80% of the exam fee and you will not get the certificate from us.

Same final score calculation and pass criteria as mentioned in the Course introduction page will be applied and NPTEL certificates will be given as per that.
****
OPTION 3: CANCEL EXAM AND TAKE A REFUND
You can choose to cancel your exam and take a refund. We will refund 80% of the fee you have paid, retaining 20% towards administrative costs. An attested assignment score sheet will be issued to you in this case.
Link: bit.ly/SampleAssignmentLetter
In this case, you will NOT get an NPTEL certificate for the course.

****
IMPORTANT:

- Those of you graduating this year and who definitely need an NPTEL certificate - we suggest that you should make a serious effort in attempting this online remote proctored exam. As you know, the in-person-at-centre exam has a lot more dependencies on external factors. So please try to arrange for the systems per the requirements and attempt this online exam.
- The above 3 options can be exercised for each of the courses registered for individually.
- If you pass the course as per the certification criteria, the certificate will be the same as we normally give.
- You can choose either the online exam session or the in-person session to write the exam. If you miss that we will be unable to provide another opportunity to take up the exam this semester. The fees paid will be used towards this one session.
- Fees will not be refunded if you participate in this exam and then could not complete the exam for any reason whatsoever.

Warm regards
NPTEL team
Write to support@nptel.iitm.ac.in in case of queries. The office is not yet opened and phone lines are not yet operational and hence kindly email us.

Material Characterization : Assignment 7 Re-evaluation

2020-04-20

Dear Learners,

Assignment 7 submission of all students have been re-evaluated by making the weightage as 0 of Question 6.

Students are requested to find their revised scores of Assignment 7 in the Progress page.

-NPTEL Team.

Material Characterization : Assignment 1,2,3 and 7 solutions Released !!!

2020-04-20

Dear Learners,

Week 1,2,3 and 7 Assignment solutions are uploaded in the course page.

Kindly check the following Link :

Assignment 1 solutions link : https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=1&lesson=109

Assignment 2 solutions link : https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=6&lesson=110

Assignment 3 solutions link : https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=11&lesson=111

Assignment 7 solutions link : https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=30&lesson=112

-NPTEL Team

Material Characterization : Assignment 8 solution Released !!!

2020-04-17

Dear Learners,

Week 8 Assignment solutions are uploaded in the course page.

Kindly check the following Link :

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=35&lesson=108

-NPTEL Team

Week 12 Feedback : Material Characterization

2020-04-14

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 12 is live now

2020-04-13

Dear Learners,

The lecture videos for Week-12 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=55&lesson=56

Assignment for Week-12 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=55&assessment=104

The assignment has to be submitted on or before **Wednesday, [22-04-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Material Characterization : Assignment 6 solution Released !!!

2020-04-07

Dear Learners,

Week 6 Assignment solutions are uploaded in the course page.

Kindly check the following Link :

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=26&lesson=106

-NPTEL Team

Material Characterization - April 25 NPTEL Exam Postponed

2020-04-07

Dear learner,

Hope you are staying safe and keeping well.
We are entering the last week of learning in all NPTEL online courses of the Jan 2020 Semester, next week.

Many of you have been wondering about the status of exams and writing to us or posting on the forums.

In view of the current situation all across the country, we are **postponing the NPTEL exams**that were scheduled to have happened on April 25.

We are still unsure about the dates for conducting the same as it depends on how things change. We will keep you informed through email and sms as we finalise the options.

Once the dates are finalised, we will also allow you:
1. to cancel your exams if the future dates announced by us do not suit you
2. to change cities selected, if required.

Please check the course Announcement section, your email (spam/junk folders also) and ask your friends/college for updates so that you don't miss it.

Please write to support@nptel.iitm.ac.in for any clarifications/concerns.

Warm regards

Nptel team

Week 11 Feedback : Material Characterization

2020-04-07

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 11 is live now !!

2020-04-06

Dear Learners,

The lecture videos for Week-11 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=50&lesson=51

Assignment for Week-11 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=50&assessment=103

The assignment has to be submitted on or before **Wednesday, [15-04-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Week 10 Feedback : Material Characterization

2020-03-31

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 10 is live now !!

2020-03-30

Dear Learners,

The lecture videos for Week-10 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=45&lesson=46

Assignment for Week-10 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=45&assessment=101

The assignment has to be submitted on or before **Wednesday, [08-04-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Week 9 Feedback : Material Characterization

2020-03-24

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 9 is live now !!

2020-03-23

Dear Learners,

The lecture videos for Week-9 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=40&lesson=41

Assignment for Week-9 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=40&assessment=97

The assignment has to be submitted on or before **Wednesday, [01-04-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Week 8 Feedback : Material Characterization

2020-03-17

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 8 is live now !!

2020-03-16

Dear Learners,

The lecture videos for Week-8 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=35&lesson=36

Assignment for Week-8 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/subjective?name=96

The assignment has to be submitted on or before **Friday, [27-03-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Material Characterization : Content Release will be as per schedule

2020-03-16

Dear Learner

We are receiving queries about the course schedule due to Coronavirus (COVID-19) pandemic and preventive actions.
We will release our contents/assignment every Monday as usual till the course end date.

Hence please note that our courses will be as per the schedule and request you to login your course and check for the contents every week.

- NPTEL team

Week 7 Feedback : Material Characterization

2020-03-10

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

REMINDER 3 : Material Characterization : REGISTER TODAY - CERTIFICATION EXAM FORM IS NOW OPEN!

2020-03-09

Dear Learner,

Here is the much-awaited announcement on registering for the **April 2020** NPTEL course certification exam.

1. The registration for the certification exam is open only to those learners who have enrolled in the course.
2. If you want to register for the exam for this course, **login here using the same email id which you had used to enroll to the course in Swayam portal. Please note that Assignments submitted through the exam registered email id ALONE will be taken into consideration towards final consolidated score & certification.**
3. **Date of exam: April 25, 2020**
   - Certification exam registration URL is: https://nptelaprilexam.swayam.gov.in/
   - Choose an exam session: **Forenoon: 9.00 AM -12.00 PM; Afternoon: 2.00PM - 5.00 PM**
   - Choose from the Cities where exam will be conducted: Exam cities
4. **Exam fees:**
   - If you register for exam and pay before **Mar 16, 10:00 AM**, Exam fees will be **Rs. 1000/- per exam.**
   - If you register for exam before **Mar 16, 10:00 AM** and have not paid or if you register between **Mar 16, 10:00 AM & Mar 20, 5:00 PM**, Exam fees will be **Rs. 1500/- per exam**
   - Last date for exam registration: **Mar 20, 2020 5:00 PM (Friday).**

Click here to view Timeline and Guideline : Guideline

For more details please check our previous announcement.

-NPTEL Team

Material Characterization : Week 7 is live now !!

2020-03-09

Dear Learners,

The lecture videos for Week-7 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=30&lesson=31

Assignment for Week-7 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=30&assessment=94

The assignment has to be submitted on or before **Wednesday, [18-03-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Week 6 Feedback : Material Characterization

2020-03-03

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 6 is live now !!

2020-03-02

Dear Learners,

The lecture videos for Week-6 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=26&lesson=27

Assignment for Week-6 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/subjective?name=92

The assignment has to be submitted on or before **Friday, [13-03-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Final examination pattern and descriptive type assignments

2020-02-25

Dear Students

The **final exam pattern will be descriptive type questions** (i.e. offline examination with paper and pen).

Assignment 6 and 8 will also be descriptive type in order to give you an idea. The corresponding scores will be upgraded in the portal.

All the best.

Week 5 Feedback : Material Characterization

2020-02-25

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 5 is live now !!

2020-02-24

Dear Learners,

The lecture videos for Week-5 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=21&lesson=22

Assignment for Week-5 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=21&assessment=90

The assignment has to be submitted on or before **Wednesday, [04-03-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

LIVE session with an Industry expert - 20.02.2020 at 7PM !

2020-02-19

Dear NPTEL Learner,

NPTEL presents you this fantastic opportunity to interact with Industry Expert Mr. Rakesh M R, Manager - Systems Engineering at Tejas Networks Limited on 20th February 2020 at 7 PM over a live session on Working Principles of Gigabit-capable Passive Optical Networks (GPON). Your queries can be posted in the chat window during the session.

This session is sure to be a mine of information - do not miss it!

Click on this link to join: https://youtu.be/VaSCMLY6OUw

If you want to post any questions based on the topic of the Live session to the Industry expert prior to the session, please click here: https://forms.gle/Zz96DRzNqxb6kf4V7

Warm regards
NPTEL team

Week 4 Feedback : Material Characterization

2020-02-18

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 4 is live now !!

2020-02-17

Dear Learners,

The lecture videos for Week-4 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=16&lesson=17

Assignment for Week-4 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=16&assessment=85

The assignment has to be submitted on or before **Wednesday, [26-02-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Material Characterization : Feedback on Text Transcripts (English) of NPTEL videos

2020-02-17

Dear Learners,

We have uploaded the English transcripts for this course already.

We would like to hear from you, a quick feedback for the same. Please take a minute to fill out this form.

Click here to fill the form

-NPTEL Team

Material Characterization : NPTEL on Mobile: Issues with the display of assignment scores - fixed

2020-02-14

Dear Learners

We have noticed problems with the display of marks on mobile clients. For the users who submitted the assignment from the desktop, even when they have given the correct answer, the score for the individual question is shown as 0 on the assignment page on the mobile front. This error was specific to the users who submitted the assignment on the desktop and check the same from the mobile.

The issue has been fixed now and you can check the same now through your desktop or mobile.

-NPTEL Team

Week 3 Feedback : Material Characterization

2020-02-11

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 3 is live now !!

2020-02-10

Dear Learners,

The lecture videos for Week-3 have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=11&lesson=12

Assignment for Week-3 is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=11&assessment=83

The assignment has to be submitted on or before **Wednesday, [19-02-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Week 2 Feedback : Material Characterization

2020-02-04

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Week 2 is live now !!

2020-02-03

Dear Learners,

The lecture videos for **Week-2** have been uploaded for the course . The lectures can be accessed using the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=6&lesson=7

Assignment for **Week-2** is also uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=6&assessment=81

The assignment has to be submitted on or before **Wednesday, [12-02-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

-NPTEL Team

Week 1 Feedback : Material Characterization

2020-01-28

Dear Learners,

Thank you for continuing with the course and hope you are enjoying it.

We would like to know if the expectations with which you joined this course are being met and hence please do take 2 minutes to fill out our weekly feedback form.
It would help us tremendously in gauging the learner experience.

Here is the link to the form: https://docs.google.com/forms/d/1yjOrUza-kej0xbPz_nMR55XJ7-tSCab582Z4Wi5sZAY/viewform

Thanks & Regards

-NPTEL team

Material Characterization : Assignment 1 is live now !!

2020-01-21

Dear Learners,

Assignment for **Week-1** is uploaded and can be accessed from the following link:

https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=1&assessment=80

The assignment has to be submitted on or before **Wednesday, [12-02-2020, 23:59 IST].**

As we have done so far, please use the discussion forums if you have any questions on this module.

Regards
NPTEL Team

Material Characterization : Assignment 0 is live now !!

2020-01-21

Dear Learners,

We welcome you all to this **Material Characterization** course. The assignment 0 has been released.

This assignment is based on prerequisite of the course.

You can find the assignment in the link below: https://onlinecourses.nptel.ac.in/noc20_mm14/unit?unit=78&assessment=79
Due date of assignment 0 is **27-01-2020, 23:59 IST**

Please note that this assignment is for practice and it will not be graded.

Regards
NPTEL Team

swayam

reviewer4@nptel.iitm.ac.in

NPTEL » Material Characterization

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Course outline

How does an NPTEL online course work?
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Text Transcripts

There are new announcements since your last visit. Please have a look.

NPTEL: Latest update on Exams for Jan 2020 semester

2020-06-07

Dear learner,

Hope you are safe and doing fine in the current situation.
This is with regard to the Jan-Apr 2020 NPTEL exams. Based on the feedback received the last couple of days from several stakeholders such as learners, colleges, etc, we have decided on the following:

Cancelling the exams scheduled for 23/24/25 June through TCS
The exams scheduled on 23/24/25 June, stand cancelled and the choices learners had opted for - In person exams or Refund, stand cancelled.

1. Attested Assignment Score sheet: For ALL exam registered candidates:
We will issue an attested assignment score sheet letter, regardless of your assignment score - which can be used as appropriate.

2. Modified Pass certificate: Based on Average Assignment score
We will calculate the Average Assignment score as follows:
Average of the best 3/6/8 assignments for courses of duration 4/8/12 weeks (or as announced apriori in the course in case of changes)
If this score >= 40/100 (which is also one condition for certificate eligibility), we will issue a modified Pass certificate.
If this score <40/100, this certificate will not be issued.

This certificate will not be counted towards the Domain certification as a completed course. Similarly, we will not be issuing an AICTE-NPTEL FDP certificate also based on this.

3. A generic letter from our side - request to College authorities to accept this as per their requirement will be put up on nptel.ac.in, can be downloaded and used
We will put up a pdf in which we will explain the assignment score sheet and the Pass certificate and request them to accept and process further. We will also independently approach the ministry, AICTE and UGC to convey this new process for Jan 2020 semester to all universities.

Regarding the conduct of exams in future:
Independent of the Pass certificate and the Attested assignment score sheet mentioned above, in order to plan for a possible exam sometime in the future, we will share another form after the above activities are completed, with 2 choices:

a. Cancel and refund - Those who are very sure that they would not want to appear for regular proctored NPTEL exams and want a refund - can choose this. We will refund the money. We may not be able to open registrations again in this case if you wish to appear for it later.

b. NPTEL can retain fees for exams whenever organized for Jan 2020 courses -Those who would like to wait and take the exam with us - whenever we conduct it - can opt for this choice and we will keep the fees with us. Writing this and passing as per the certification criteria laid down will get them the regular NPTEL certificate. This will alone be counted towards the Domain certificate and issue of the FDP certificate.

The mode of conducting the exams, date of the exams, etc - we will inform as the situation evolves.
For any queries: please contact support@nptel.iitm.ac.in

-NPTEL Team

UPDATE ABOUT NPTEL JAN-APR 2020 EXAMS

2020-06-06

Dear Learner,

This announcement is only for those who registered for final exam.

NPTEL Committee has decided to discontinue the Online Remote Proctored Exam Option.

Hence, you now have to choose between the following 2 options.

OPTION 1: IN PERSON PROCTORED EXAM AT FIXED EXAM CENTRES
We will be conducting exams with TCS iON (like we normally do) for which you have to appear in person at the designated exam centre in the city chosen by you.

The current exam dates fixed for this are:

Exams scheduled on the below date	Rescheduled - New Date
March 29, 2020	June 23, 2020
April 25, 2020	June 24, 2020
April 26, 2020	June 25, 2020

Important:

1. The above is subject to Government restrictions prevalent in various states at that point in time.
2. If you choose this option, the responsibility to reach the centre lies with you.
3. If the exams do get postponed due to unavoidable circumstances, exams may be conducted in August 2020 or maybe even as late as in October 2020.
4. If you choose to write the exam through this option and the exam is conducted by us in a particular city and you miss it, refund will NOT be possible as all arrangements would have been made with the vendor for the same and hence payment made to the vendor.
5. If you do pass the course as per the criteria mentioned, certificate will be the same as we normally give.
6. We will ensure you will be able to write the exams you have registered for without a clash in slots.
7. NPTEL, along with the exam partner, will make sure that exams are conducted by following appropriate social distancing norms and hygiene rules as required in the current situation.
8. We will try and ensure conduct of exam in the cities given in the list, but if in case for any unforeseen reason, we are unable to conduct the exam in the city chosen by you, we will refund 80% of the exam fee. In this case, you will not get the certificate from us.

Same final score calculation and pass criteria as mentioned in the Course introduction page will be applied and NPTEL certificates will be given as per that.
Exam fees will not be refunded if you select this option and later do not/cannot take the exam.

In the link given below, you may choose exam cities where you prefer to write exams.

OPTION 2: CANCEL EXAM AND TAKE A REFUND
NPTEL certificate will NOT be issued in this case and you will only get an attested assignment score sheet. We will create and share a letter stating the Assignment scores obtained in the course, by the end of June, 2020.

We will refund 80% of the exam fees you had paid, with 20% retained by NPTEL towards admin costs. Refund will be initiated only after exams are concluded (after June 25).

THOSE WHO DO NOT FILL THIS FORM
By default, your choice will be taken as: CANCEL AND REFUND

LAST DATE TO FILL THIS FORM: JUNE 7, 2020 - 5PM
Link: bit.ly/NPTELExamOptionForm (Please open from Incognito window)

For any queries, please write to support@nptel.iitm.ac.in

- NPTEL Team

NPTEL:New Exam dates and options for Jan-Apr 2020

2020-06-03

Dear Learner,