**Agenda Papers**

**17th Meeting**

**SWAYAM BOARD**

**11th November 2019**

**Ministry of Human**

**Resource Development**

**Shastri Bhawan**

**New Delhi - 110001**

**AGENDA**

**17th Meeting of the SWAYAM Board**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Agenda Items** | **Page No.** |
| 1 | **Agenda Item No. 1**  Confirmation of Minutes of 16th SWAYAM Board Meeting | 2 - 4 |
| 2 | **Agenda Item No. 2**  Action Taken Report | 5 - 12 |
| 3 | **Agenda Item No. 3**  Status Report on SWAYAM Courses & SWAYAM Examination | 13 - 15 |
| 4 | **Agenda Item No. 4**  Review Report on SWAYAM Courses | 16 |
| 5 | **Agenda Item No. 5**  Online Degree Vertical for SWAYAM - IIT Madras | 17 -19 |
| 6 | **Agenda Item No. 6**  Presentation on Translation of SWAYAM Courses - IIT Madras | 20 |
| 7 | **Agenda Item No. 7**  List of Courses for January 2020 Semester | 21 - 39 |
| 8 | Any other item with the permission of Chair |  |

**Agenda Item No. 1**

**Confirmation of Minutes of the 16th SWAYAM Board Meeting held on 09.09.2019**

**Minutes**

The 16th Meeting of the SWAYAM Board was held under the Chairmanship of Shri R. Subrahmanyam, Secretary (HE), M/o HRD on 09.09.2019.

2. **Confirmation of Minutes of the 15th SWAYAM Board Meeting:** SWAYAM Board Confirmed the minutes of 15th SWAYAM Board Meeting with the following additions:

1. SWAYAM Board decided that UGC would continue as the National Coordinator for Non Engineering Post Graduate Courses and UGC may outsource or use the existing capacity of CEC for the administrative / monitoring work.
2. Board noted the information of Extension of Contract of M/s Embee Software Pvt. Ltd. for M/s Azure Cloud Services for SWAYAM MOOCs Platform from 8th August, 2019 till 31st December, 2019.
3. Board noted the information of Extension of Contract of Bulk SMS Gateway and e-Mail Services through M/s Netcore Solutions Pvt. Ltd., New Delhi from 01.04.2019 to 31.03.2020

**After detailed discussions the following decisions were arrived at:**

3. **Orchestration of Online Programmes by Universities through SWAYAM :**

1. The Universities which are approved by the UGC under UGC online regulation 2018 to offer online programmes through SWAYAM, are responsible for designing, creating and delivery of their own online programmes. As per the relevant UGC regulations, these courses have to be created by the Universities themselves.
   1. Currently the SWAYAM courses are offered under a single vertical (the 1st vertical). For hosting the online programmes offered by universities under the UGC online regulation 2018, IIT Madras will create a separate vertical (the 2nd vertical) in SWAYAM.
      1. For the online programmes, which are stored in the 2nd vertical in SWAYAM, the University will be responsible for all the administrative processes such as enrolment of students for its online programmes, collecting the fees, keeping track of the courses that these students complete, award of degrees etc. The University will be charged ‘hosting charges’ which includes the cloud charges.
      2. **Examinations**: The University will have the option to conduct its own final proctored examination for such online courses. However they can also make use of the examination service being offered in SWAYAM. If the final examination is to be conducted in SWAYAM, the University will have to provide the question papers and answer keys as per the SWAYAM guidelines. University will also have to pay the examination fees to SWAYAM for its students taking the SWAYAN based examination.
   2. While offering the courses as part of its online programmes (in the 2nd vertical), an University will have the option to offer some or all of the courses free to learners in SWAYAM who are registered in the 1st vertical of SWAYAM.

3.2.1 For such courses which will thus also be open to the learners registered in the 1st vertical of SWAYAM, the University will not be charged for hosting the course in the 1st vertical of SWAYAM. For these courses, the final examination would be conducted by SWAYAM for which University would have to provide the question papers and answer keys as per the guidelines. The students who decide to take the examination will to pay the examination fees as per SWAYAM norms for 1st vertical.

* 1. IIT Madras was requested to work out the charging mechanism (for the 2nd vertical - see para 3.1.1 and 3.1.2 above) and discuss the same soon.
  2. Secretary (HE), MHRD desired to have a meeting with all the Universities that have been approved to offer Online Programmes through SWAYAM.

4. **SWAYAM Status:**

* IIT Madras presented that there are total 1,23,52,919 Enrollments on 2800 SWAYAM Courses (SWAYAM 1.0 –1,00,12,752 enrollments in 2213 courses , SWAYAM 2.0 – 23,40,167 enrollments in 587 courses of July 2019 Semester).
* Board requested IIT Madras to assess the total number of students who have got the benefit of credit transfer and also to capture the data of students going to benefit from credit transfer in future.
* Board requested IIT Madras to share the time-frame for the translation project and also inform the number of courses will be made available as scrolling text / subtitle on SWAYAM in January 2020.

5. **Separate Partition for School Education Courses in SWAYAM:** Board approved to create a Separate Partition for School Education Courses in SWAYAM. Board also requested IIT Madras to present in the next Board Meeting, the time schedule for the same.

6. **List of Courses for January 2020 Semester:** SWAYAM Board took note of the list of **98** courses for January 2020 semester received from NCs i.e. IIM B-24, IGNOU-23, CEC-51.

SWAYAM Board requested all NCs to submit the finalized list of January 2020 semester courses (with details such as Course Name, Host Univ./Inst. Name, Coordinator Name , Fresh/Rerun/Repurpose, Start Date , End Date, Total Credits, Enrollment for Rerun Courses) conforming the below guidelines to MHRD latest by 30th September 2019.

SWAYAM Board also reiterated the following guidelines while offering SWAYAM Courses which are to be kept in consideration:

(a) Repurposing of courses are not to be encouraged. (b) The courses that are chosen for rerun should have at least 500 enrolments in the earlier run. (c) The course should have the approval of Academic Council. (d) One faculty should not handle more than two courses as Course Coordinator, at a time. (e) Start dates of all the courses should be within 15 days of start of the Semester, so that exams can be planned at the same time. (e) All NCs must strictly follow the timelines of the SWAYAM Schedule as per O.M. dated 06.06.2019.

7. **Development of 10 Episode Web Series on Ayurveda Submitted by UGC / CEC:** Board discussed and found that the proposal is not conforming to the guidelines of the SWAYAM and is not having the content in the 4 Quadrant approach. Also the proposal submitted does not match the financial guidelines of SWAYAM Prabha.

8. **Proposal for Development of Open Education Resources (OER) For Higher Education Submitted by UGC:** Board requested UGC to organize a presentation on the proposal to Joint Secretary (TEL & Admin.), MHRD.

The meeting ended with thanks to the chair.

\*\*\*\*\*\*

**Agenda Item No. 2**

**Action Taken Note on the Points decided in the 16th SWAYAM Board Meeting held on  
09th September, 2019**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Items** | **Action Taken Note** |
| 1 | **Awareness Creation & Publicity**  **A**. Local Chapters activity  **SWAYAM Workshops / Capacity Building Workshop:** To evolve a set of parameters to assess/measure the effectiveness of the SWAYAM workshops and Capacity Building workshops. Post-workshop the performance & feedback should be monitored with the help of well defined parameters. | **NPTEL :**   * Workshops at Patna, Kalaburgi, Gulbarga, Guwahati, Ranchi, Roorkee * Faculty workshops at NLSIU   **CEC**   * Conducted 01 Day Awareness Workshop for a group of 75 College Teachers at Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, Chattisgarh on 1st October, 2019. * CEC is collaborating with UTKAL University Bhubaneswar for Communication 4.0 Media Conclave -2019 on Digital Education.   **NIOS**  Establishment of Local Chapters of NIOS is under process.  **Workshop on SWAYAM organized by NIOS :-**  a) JNU, Delhi on 18th October, 2019, for Students and School Teachers.  **Upcoming Workshop on SWAYAM**  a) Indian Institute of Teacher Education (IITE), Gujarat, on 13th & 14th November , 2019.  b) Sharda University , Greater Noida , U.P , on 29th & 30th  November, 2019 |
| 2 | **UGC / CEC as National Coordinator for PG Courses :**  SWAYAM Board decided that UGC would continue as the National Coordinator for Non Engineering Post Graduate Courses and UGC may outsource or use the existing capacity of CEC for the administrative / monitoring work. | Request received from both UGC and CEC at MHRD for CEC to continue as a National Coordinator for both UG and PG Non Engineering courses. |
| 3 | **Orchestration of Online Programmes by Universities through SWAYAM :**   * IIT Madras will create a separate vertical (the 2nd vertical) in SWAYAM. * IIT Madras was requested to work out the charging mechanism (for the 2nd vertical – see para 3.1.1 and 3.1.2 above) and discuss the same soon. * Secretary (HE), MHRD desired to have a meeting with all the Universities that have been approved to offer Online Programmes through SWAYAM. | **IIT Madras**  A training workshop was conducted at IITM for officials from universities interested in offering online degrees. Members from Persistent team as well as NPTEL were the resource people. Staging instance has been set up with courses created for those who have requested for it.  Agenda Item No. 5  A meeting with Universities held under the Chairmanship of Secretary (HE), MHRD on 19.09.2019 |
| 4 | **Credit Transfer:**   * Board requested IIT Madras to assess the total number of students who have got the benefit of credit transfer and also to capture the data of students going to benefit from credit transfer in future.   **Translation:**   * Board requested IIT Madras to share the time-frame for the translation project and also inform the number of courses will be made available as scrolling text / subtitle on SWAYAM in January 2020. | **IIT Madras**  NPTEL Exams: 54661 have said Yes to credit transfer on exam form.  Agenda item No.6 (Demo and Status on Translation ) |
| 5 | **Separate Partition for School Education Courses in SWAYAM:** Board also requested IIT Madras to present in the next Board Meeting, the time schedule for the same. | **IIT Madras:** |
| 6 | **List of Courses for January 2020 Semester:**  SWAYAM Board requested all NCs to submit the finalized list of January 2020 semester courses (with details such as Course Name, Host Univ./Inst. Name, Coordinator Name , Fresh/Rerun/Repurpose, Start Date , End Date, Total Credits, Enrollment for Rerun Courses) conforming the guidelines to MHRD latest by 30th September 2019. | Agenda Item No.7  Total 549 courses   * CEC (PG Non Engineering courses) : 40 * CEC (UG Non Engineering courses) : 59 (added 8 courses from last status ) * NPTEL (PG & UG Engineering ) : 373 * IIM Bangalore (Management) : 25 (1 added from last status) * IGNOU (Diploma & Certificate) : 23 * NITTTR (Teacher Training) : 29 * AICTE : Not Received |
| 7 | **Review Report of running courses by NCs and activity plan** | Presentation by All NCs (Included as Agenda Item No. 4) |
| 8 | **Annual SWAYAM Conference**  Prof. P. D. Jose was requested to prepare a paper outlining the strategy, target audience, timing, duration etc. and make a presentation in the next Board Meeting. | **IIM Bangalore:** Plan to have the SWAYAM Conference in April or May |
| 9 | **Addressing Gap areas in Engineering and Non-Engineering programmes:**  The Board decided that all the NCs would on priority identify the gap areas in all programmes and identify people who can fill the gap by offering courses in SWAYAM. The Board decided to monitor this very seriously from the next Board meeting. | **NPTEL:** The gap courses have been circulated to institutes that offer courses under NPTEL and by July 2020 most of these will be hopefully offered.  **CEC for UG & PG :**  Gap Area Assessment process is going on and assessment is started in following 8  Subjects 1. Geography, 2. History, 3. Commerce, 4. Mathematics, 5. Physics, 6. Chemistry, 7. Botany, 8. Zoology |
| 10 | **Diploma/ Certificate/ Degree Programmes for African Students under eVBAB Project of MEA:**  IIM Bangalore, NPTEL and IGNOU were requested to convey the details of such programmes along with the starting date in the next 2 days to MHRD, so that it could be conveyed to JS (WA), MEA. | **IIM B:** Certificate in Business Management Programme (CPM), Details shared with MHRD.  **NPTEL:** Earlier shared 3 domains in Computer Science and Engg.. Dates and details of programme awaited  **IGNOU:**  1. MBA  2. BCA  3. MCA  Certificate in Tourism Studies  Dates and Details awaited |
| 11 | **Presentation by NCs - Delivering Courses as a Package on SWAYAM:**  The Board decided that all NCs should workout some domain courses as has been presented. NCs should send the details of the package/ domian courses to MHRD before the next Board meeting. The Board felt that these domain courses could be formally launched in October 2019 for January 2020 session of SWAYAM. | **CEC/UGC:** The Following diploma and Certificate Courses has been identified from LAW Domain:-   * Diploma in Criminal Justice Administration (4 courses) of 16 Credits from NLU Delhi. * Certificate Course in Access to Justice of (2 courses) of 8 credits from NLU Delhi.   **CEC**: Shared Details of 12 Packaged Domain Courses with targeted user groups/audiences.  1. Fundamentals of Tourism, 2. Tourism Products & its development, 3. Travel & Tourism Operations, 4. Business Laws in India, 5. Law of Crimes in India, 6. International Humanitarian Law & Human Rights Law in India, 7. Entrepreneurship Development, 8. Basic Course in Digital Marketing, 9. Retail Business Management, 10. Certificate Course on Agri-Business Management, 11. Basics of Office Management and Secretarial Practices, 12. Operation Management and Analytics  **NPTEL:** Details awaited  **IGNOU** is in the process of offering 8 courses as package for 4 programmes.  1. MA in Hindi  2. Certificate in Tourism Studies  3. Certificate in Russian Language  4. Certificate in Arabic Language  Letter of Intent (LOI) received for these programmes.  **NIOS** Package for SWAYAM Courses   * For Secondary or Sr. Secondary passing certificate, a learner must enroll in NIOS and can select minimum 05 subjects with 01 or maximum 02 language subject from respective course. * Individual Course certification can be done for   Vocational Courses through NIOS. |
| 12 | **Conducting Examination for International Students:** The Board requested NIOS and IGNOU to prepare a note on this and submit the same to MHRD within one week. | **IGNOU:** Note shared |
| 13 | **Issue of Certificate:** It was decided that the process should be automated. This should be completed before November 2019 examinations. IIT Madras requested to coordinate the same. | **IIT Madras**  The automatically generated certificates will not be available for Nov 2019 exams. The functionality to upload marks and e-certificates similar to what we had on SWAYAM 1.0 will be implemented for this run. It will be planned for Jan 2020 semester. The challenges in this were discussed with Shri Parameswaran N., Advisor (NMEICT), MHRD . |
| 14 | **Compliance to SWAYAM Schedule (O.M. dated 6/6/2019).** SWAYAM 2.0 should ensure that the course enrolment date cannot be changed by the CC/NC beyond the prescribed date as per the schedule. IIT Madras was requested to ensure this. | **IIT Madras**  Will be implemented by December 2019. |
| 15 | **SWAYAM 2.0 Status**   * Status on Migration (from SWAYAM1 to SWAYAM 2) * Regarding migration of courses from SWAYAM 1.0 to SWAYAM 2.0, Prof Andrew agreed that the detailed steps would be shared with all NCs.   **Application Service Provider** | Status to be presented by IIT Madras.  Migration Plan at **Annexure I** |

**Annexure I**

Swayam1.0 Migration Plan

Index

[Migration Scope 3](#_Toc22303875)

[Assumption/ Limitations 3](#_Toc22303876)

[Dependencies 3](#_Toc22303877)

[Migration Approach 3](#_Toc22303878)

[Course Migration 3](#_Toc22303879)

[Student enrollments and assignments 4](#_Toc22303880)

[Certificates 4](#_Toc22303881)

[Exam registration data for NITTR Courses 4](#_Toc22303882)

[NPTEL student course enrolment data: 4](#_Toc22303883)

[Other Databases (Forums, BI, SharePoint reports) 4](#_Toc22303884)

[Azure Search 5](#_Toc22303885)

[Azure Cache 5](#_Toc22303886)

[Azure Blob Storage 5](#_Toc22303887)

[SWAYAM 1.0 Logs 5](#_Toc22303888)

[Timelines 5](#_Toc22303889)

[Cost Estimation 5](#_Toc22303890)

# 

# Migration Scope

SWAYAM 1.0 migration to the new 2.0 platform will include all the data created since the launch of SWAYAM program. But, the NPTEL courses which have been migrated to the 2.0 platform during the launch are to be excluded as these are duplicate on the 1.0 system. The migration scope will include all the Non-NPTEL courses, lessons, assignments, student enrollments, assignments submitted and certificates.

The data sources associated with the main SWAYAM application including BI, Reports and logs will be migrated.

# Assumption/ Limitations

|  |
| --- |
| * Only Non-NPTEL courses and associated data is to be migrated * The migrated courses will be saved in private mode. Once the course admin approves the course and saves the course as public the content will be visible to users. |
| * Swayam1.0 tests cannot be migrated as auto graded tests so these will be converted to pdf and uploaded as assignments on 2.0 platform. |
| * Swayam1.0 Course Level "Certificate" will be mapped with "Diploma" in Swayam2.0. * Only the raw course video will be migrated. For different bit rates these will have processed again on 2.0 platform if required. * Student Assignment scores cannot be migrated as-is because assignment scores are mapped with “ID” in Datastore which gets generated incrementally and not in our control. Hence, we’ll map the assignment score with assignment title as an ID, and display of it on a UI will require a code change in Swayam2.0. |

# Dependencies

* Course coordinator or Admin will have to change Course availability from Private to Public.
* Course Coordinator or Admin might have to correct the assignment sequence if required.
* Course Coordinator or Admin might have to validate the Hindi/Sanskrit/Urdu (Non-English) course contents.
* YouTube videos can be viewed after migration whereas the raw videos can be viewed after SWAYAM 2.0 supports video URLs.
* The migrated certificates can be viewed after the certificate module is ready in SWAYAM 2.0 platform.
* Assignment score display on Progress page of 2.0 will require a code change

# 

# Migration Approach

## Course Migration

As a part of this migration, all the Non NPTEL courses from Swayam1.0 will be migrated to 2.0. These courses will be migrated in Private mode and won’t be visible to student. Admin will have to change the Course availability from Private to Public (Enrollment Closed) to get it visible to Student.

The overall migration will be automated using scripts starting from extracting units, lessons and assignment data from SWAYAM 1.0 in a respective csv file. To insert the data in 2.0 we’ll read the csv files, create an appropriate request data and pass it to an API. First all the courses will be created and then its Outline i.e. Units, Lessons, Assignment.

Apart from course meta data, the actual Azure blob Storage contents like Lesson videos, pdf, word file, assignment files, assignment submissions will also be migrated to Google Cloud Storage. All these data will be publicly available, and its object URL mapping will be done at the time of metadata migration.

As we only support YouTube videos in 2.0. Code changes will be required to Stream the videos from Google Cloud Storage and user will not able to view these videos in multiple bit rates. We are only considering and migrating the original videos uploaded by PI and not all the bit rate processed videos.

Post migration, all the users who have joined these Swayam1.0 courses will able to view it in MyCourses page.

## Student enrollments and assignments

Student enrollments and assignment scores for the Non-NPTEL courses will be migrated. The students who registered on SWAYAM 1.0 but are not on 2.0 platform will be registered automatically using scripts. Student assignment submission will not be migrated.

The overall migration will be automated using scripts to extract data from SWAYAM 1.0 and imported to 2.0 platform. The import will not use APIs but to enable sync with central API based save on the student data will be required.

For NITTR courses, assignment reports will be separately downloaded, and backup will be copied to GCP.

Certificates

All the certificates will be migrated to Google Cloud Storage and will not be publicly available.  
In Swayam2.0 new certificate module will be created where in each of the Student certificate will be mapped and stored.

For quick turnaround we’ll be creating a basic model entity (Place Holder) and migrate the certificates. Later, we’ll see the display part of it.

Exam registration data for NITTR Courses

The exam registration data for the NITTR courses will not be migrated to SWAYAM 2.0 Exam database. But we will take back up of the data and store it on GCP cloud storage so that it can be restored later if required.

## NPTEL student course enrolment data:

The student enrollment data which was migrated during SWAYAM 2.0 launch did not include NPTEL users as these were considered duplicate with the users from NPTEL database. Due to this the NPTEL students who enrolled for courses from other NCs were missed. This data will be migrated to the SWAYAM 2.0 personal profile along with the student enrollment data migration for the Non-NPTEL courses.

Other Databases (Forums, BI, SharePoint reports)

All the other databases like Forums, BI etc. will not be migrated to SWAYAM 2.0 platform. The back up of these databases will be stored on GCP storage so that restoration can be done when required.

## Azure Search

The data from Azure search will not be migrated to SWAYAM 2.0 nor moved to GCP cloud storage as this data is used only for faster queries in 1.0. This mechanism is not supported in 2.0 platform.

## Azure Cache

The data cached in Azure is temporary and only for performance. There is no persistent data in cache hence this data will not be migrated to 2.0 .

## Azure Blob Storage

The total data stored in Blob storage is around 56 TB but the source data is only 12 TB. We plan to migrate and stored only source data to GCP cloud storage as the remaining data is processed data which is not going to be used by 2.0. If required processing of the data like bit rate conversion can be done on 2.0 when required.

After migrated data on 2.0 may be retained only 6 months to 1 year. After that we can delete the data depending on the requirement.

## SWAYAM 1.0 Logs

The SWAYAM 1.0 Logs will be copied to GCP cloud storage and retained for 3 months to comply with the Govt retention policy guidelines.

# Timelines

Given below is the tentative timeline for migrating the various components explained in the document.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Component** | **Migration Details** | **Migration Completion Date** | **Status** |
| 1 | Blob Storage | 1.0 course original videos, pdfs, word files etc. of 12TB to be migrated. | 25th Oct 19 | Completed |
| 2 | Certificates (Only documents) | All Certificates to be migrated to Cloud Storage. | 25th Oct 19 | Completed |
| 3 | Exam registration data | All associated info backup to be stored to Cloud Storage. | 25th Oct 19 | Completed |
| 4 | Other databases | Backup of DB’s to be copied to GCP Storage. | 25th Oct 19 | Completed |
| 5 | Courses Metadata | Course Overview, Units, lessons, assignments, videos, and associated storage metadata to be migrated | 31st Oct 19 | Completed |
| 6 | Logs (IIS) | Swayam1.0 logs to be copied to Cloud storage. (from compliance perspective) | 31st Oct 19 | Completed |
| 7 | Student data | Student name, email, assignment scores and certificates metadata to be migrated. | 15th Nov 19 | In Progress |
| 8 | NPTEL student enrollments on 1.0 (Non NPTEL courses) | NPTEL Students enrollment info that was not migrated considering a duplicate information, at the time of launch of Swayam2.0. | 20th Nov 19 | Not Started |
| 9 | Delta Migration | Student delta migration may be required as ARPIT 2018 re-exam result data is still being updated on Swayam1.0. DB /Certificates backup | NA |  |
| 10 | Azure Search, Cache | Out of scope | NA |  |

# Cost Estimation

The total estimated cost for migration is given below.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Cost Item** | **Amount in Rupees** | **Comments** |
| 1 | Azure Data egress cost | 3,70,000 | One-time cost. |
| 2 | GCP Data ingress cost | - | Incoming to datacenter isn’t charged |
| 3 | Migration Tools | - |  |
| 4 | Temporary VMs used for migration | 10,000 | On and off VM’s |

**Agenda Item No. 3**

**Status Report on SWAYAM**

**To be presented by Prof. Andrew Thangaraj, IIT Madras**

**Status Report on SWAYAM Examination November 2019**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of Courses Offered in July 2019 Semester** | | | |
|  |  |  |  |
| **S.No.** | **NC** | **CBT + Pen & Paper** | **Total** |
| 1 | CEC | 90 (CBT) + 1 (Pen & Paper) | 91 |
| 2 | IGNOU | 15 | 15 |
| 3 | IIMB | 21 | 21 |
| 4 | UGC | 14 (CBT) + 29 (Pen & Paper) | 43 |
| 5 | NITTTR | 4 | 4 |
|  |  | **Total** | **174** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of Enrolments V/s Exam Registration NC-wise** | | | |
|  |  |  |  |
| **S.No.** | **NC** | **Enrolments** | **Exam Registration** |
| 1 | CEC | 263590 | 9027 |
| 2 | IGNOU | 44971 | 1113 |
| 3 | IIMB | 67828 | 3892 |
| 4 | UGC | 125699 | 7744 |
| 5 | NITTTR | 21204 | 354 |
|  | **Total** | **523292** | **22130** |

|  |  |
| --- | --- |
| **Center Allocation** | |
| **No. of Cities Offered** | **143** |
| **Exam Conducted in State** | **31** |
| **Exam Conducted in Cities** | **124** |
| **Exam Conducted in centres** | **160** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Top 10 Courses w.r.t. Exam Registration** | | | | | |
|  |  |  |  |  |  |
| **S.No.** | **NC** | **Course** | **Course Enrollment** | **Exam Registration** | **Percentage** |
| 1 | UGC | Academic Writing | 12531 | 1472 | 11.75 |
| 2 | UGC | Digital Marketing | 7716 | 1138 | 14.75 |
| 3 | CEC | Basics of Digital Marketing | 14383 | 852 | 5.92 |
| 4 | CEC | Computer Networks | 14769 | 852 | 5.77 |
| 5 | UGC | Solid and Hazardous Waste Management | 4779 | 692 | 14.48 |
| 6 | IM B | Brand Management | 8875 | 681 | 7.67 |
| 7 | IM B | Effective Business Communication | 6553 | 631 | 9.63 |
| 8 | CEC | Environmental Studies | 3748 | 610 | 16.28 |
| 9 | UGC | Early Childhood Care and Education (ECCE) | 2355 | 533 | 22.63 |
| 10 | CEC | Personality Development | 8938 | 521 | 5.83 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bottom 10 Courses w.r.t. Exam Registration** | | | | | |
|  |  |  |  |  |  |
| **S.No.** | **NC** | **Course** | **Course Enrollment** | **Exam Registration** | **Percentage** |
| 1 | CEC | Aesthetic Of Taal ( ) | 754 | 4 | 0.53 |
| 2 | CEC | Intervention and Teaching Strategies for Children with Visual Impairment | 987 | 4 | 0.41 |
| 3 | UGC | Introductory Sanskrit: Grammar | 1347 | 4 | 0.30 |
| 4 | UGC | Foundation Course of Prachin Nyay | 342 | 3 | 0.88 |
| 5 | CEC | TOURISM OPERATIONS | 434 | 3 | 0.69 |
| 6 | CEC | Family Resource Management and Housing | 580 | 3 | 0.52 |
| 7 | UGC | NyayasiddhantaMuktavalyah Shabdakhandah ( ) | 597 | 3 | 0.50 |
| 8 | CEC | Biomembranes and Bioenergetics | 649 | 3 | 0.46 |
| 9 | CEC | Mulberry and Silkworm Crop Protection | 175 | 2 | 1.14 |
| 10 | CEC | Organization and Management of Early Childhood Care and Education Centres | 373 | 2 | 0.54 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NITTTR Course Exam Registrations w.r.t. Course Enrolments** | | | | | |
|  |  |  |  |  |  |
| **S.No.** | **NC** | **Course** | **Course Enrollment** | **Exam Registration** | **Percentage** |
| 1 | NITTTR | Managing Learning Resources | 4197 | 117 | 2.79 |
| 2 | NITTTR | OER for Empowering Teachers | 9788 | 154 | 1.57 |
| 3 | NITTTR | Redefining Laboratory Instruction using Virtual Laboratory | 5369 | 65 | 1.21 |
| 4 | NITTTR | Capstone Project | 1850 | 18 | 0.97 |
|  |  | **Total** | **21204** | **354** |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Choice 1** | **Choice 2** | **Forcefully moved to nearest city** | **Choice 3** |  |
| 21752 | 364 | 2 | 12 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Top 10 Cities w.r.t. Exam Registration** | | | |
|  |  |  |  |
| **SN** | **STATE** | **CITY** | **COUNT** |
| 1 | Tamil Nadu | Coimbatore | 3233 |
| 2 | Tamil Nadu | Chennai | 1330 |
| 3 | West Bengal | KOLKATA | 1055 |
| 4 | Andhra Pradesh | Tirupathi | 1034 |
| 5 | Tamil Nadu | Tiruchirappalli | 763 |
| 6 | Maharashtra | Pune | 721 |
| 7 | Tamil Nadu | Thanjavur | 683 |
| 8 | KARNATAKA | BENGALURU | 660 |
| 9 | Delhi | Delhi | 623 |
| 10 | Maharashtra | Mumbai | 586 |
|  |  | **Total** | **10688** |

**Agenda Item No. 4**

**Review Report on SWAYAM Courses**

**Review Report on Courses**:

Presentation to be made by individual NCs to include the following points:

* No. of courses offered in July 2019 Semester with current status.
* Course wise Details: Enrollments, Course Start - End Date, No. of Videos, No. of Assignments, No. of Tests, Effectiveness of Discussion Forum
* Factors on which delivery of the courses are monitored.
* The NCs should try to offer courses in a packaged manner, which shall make a part of certain degree / diploma programme.
* Action Plan for January 2020 Courses.
* Any other views / comments / suggestions

**Agenda Item No. 5**

**Online Degree Vertical for SWAYAM - IIT Madras**

**Online Degree Vertical of SWAYAM**

The UGC has approved several universities to offer degrees online. Many of these universities have opted to use the SWAYAM portal. The SWAYAM board has approved the creation of a separate vertical of SWAYAM portal for this purpose. The costs of the separate online degree vertical is expected to be recouped, ultimately, from the universities using it. This proposal briefly outlines the expected heads for the costing and provides more details on the development/maintenance of the online degree vertical along with support for the universities.

**Portal development and maintenance**

The SWAYAM portal is maintained through the SWAYAM ASP - Persistent Systems – chosen through an open tender process by IIT Madras (with suitable approvals from the SWAYAM board). Costs for personnel (Architect, Manager, Developer roles) on a monthly basis was decided through the tender. The same contract will be employed to use personnel from the SWAYAM ASP to develop and maintain the second vertical of SWAYAM for offering courses towards online degrees.

**Expected personnel per month**:

1 Architect, 1 Manager, 2 Developers will be employed as of now.

a. IIT Madras is authorised to modify the actual number/nature of personnel depending upon the requirement through its own internal processes, as it does for the SWAYAM portal maintenance.

b. If universities desire many changes to be made to the portal, the number of developers will have to be increased.

**Expected personnel cost**: Rs. 18 lakhs per month (as per tender for the personnel)

**Cloud usage costs**

The SWAYAM application uses PAAS cloud services and auto-scales to meet demand.

Therefore, it is difficult to put down an exact number for the monthly cloud cost. Given the nature of the online degree program, we can make a tentative estimate of the cost per month.

**Expected cloud cost per month**: Rs. 50 per student per month

For 1000 students, cost is Rs. 0.50 lakhs per month

For 10000 students, cost is Rs. 5 lakhs per month

If the costs are different from the above, a suitable adjustment will be made to the overall cost of SWAYAM online degree vertical for the corresponding period.

**Portal support, research, instruction design and academic compliance**

The online degree portal would also require a portal support team similar to the SWAYAM portal. Since the degree programs will involve a coherent/ connected course offerings the portal support team may have multiple sub-teams that focuses on the cohorts of learners and their engagement in the learning portal. The numbers and the roles will evolve as we get more clarity on the exact requirements for the Online Degree programs.

**Human resources**: Rs. 5 lakhs per month

**Software/hardware/office resources**: Rs. 20 lakhs (initial)

**Travel**: Rs. 2.4 lakhs per year

**Contingency**: Rs. 2.4 lakhs per year

**Consultancy/ Honorarium**: Rs. 4.8 lakhs per year

The role of this team is to ensure that the online degree programs do not go the way of ODL but preserve quality in its delivery and its outcomes. The team is expected to consist of staff hired specifically for the project, who report to professors at IITs, who will be the principal investigators. A few consultants with experience and expertise in online education may be hired for advising the team on specific actions.

The Team will conduct orientation sessions for university faculty to get them attuned to online course delivery even before course creation. All analytics from the course portal will be analysed by this team to provide feedback on each course to the course instructor. This feedback is to be incorporated into the next offering. The same feedback will be used for making a decision on possible open offerings of a course offered in the online degree vertical.

The Honorarium is for consultants and for professors and other staff of IITs, who will play an important role in the guiding of the overall online degree portal, instruction design and its implementation. The quantum of honorarium is to be approved by the NPTEL Programme Implementation Committee, which oversees the entire SWAYAM-NPTEL operations.

To ensure that the team can focus on academic aspects, this team is not expected to take on other administrative tasks. The universities are expected to administer all student management aspects as well as exam activities related to the course offerings.

**Summary of budget**

**Initial setup:** Rs. 20 lakhs

The overall monthly budget is summarised in the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Head** | **Cost per month** | **Cost for 6 months** |
| 1 | Portal Development and maintenance | Rs. 18 lakhs | Rs. 108 lakhs |
| 2 | Cloud usage | Rs. 5 lakhs | Rs. 30 lakhs |
| 3 | Portal support | Rs. 5.8 lakhs | Rs. 34.8 lakhs |
|  | **Total** | Rs. 28.8 lakhs | Rs. 172.8 lakhs |

**Payment from universities**

Payment from universities has to be made every semester at the beginning (by Jan 15 for the January semester and Jul 15 for the July semester).

A suitable payment model has to be evolved with the universities. For the Jan 2020 semester, the universities may be asked to pay 15% of the fee collected to SWAYAM online degree vertical as an ad hoc initial payment model. This will be revised once again before the Jul 2020 semester.

Applicable GST (not sure about the percentage) and IITM overheads (15%) will be charged for any payment received from universities towards the online hosting services provided through the SWAYAM-NPTEL project at IIT Madras.

**Request for funds to initiate SWAYAM online degree vertical**

Initial set-up funds and funds for one semester amounting to

Rs. 20 lakhs + Rs. 172.8 lakhs = Rs. 192.8 lakhs

may kindly be released to IIT Madras to enable the creation of the second vertical of SWAYAM for online degrees.

**Agenda Item No. 6**

**Presentation on Translation of SWAYAM Courses - IIT Madras**

**Agenda Item No. 7**

**List of Courses for January 2020 Semester**

**Purport**

The objective of this Note is to finalize the list of courses to be offered in the January 2020 Semester.

**Background**

As per the O.M. dated 06.06.2019 reg. “**Schedule for July and January Semester courses**” , approved by 13th  SWAYAM Board meeting , All National coordinators are requested to submit the list of courses that would be offered during the January 2020 Semesters latest by 5th September,2019.

All NCs were requested to finalize and submit the list of January, 2020 Semester Courses to MHRD so that there will be sufficient time for publicity and approval of the courses in the respective senate / councils of Universities /Institutions.

Also in the earlier SWAYAM Board meetings the Board reiterated the following guidelines while offering SWAYAM Courses which are to be kept in consideration:

(a) Repurposing of courses are not to be encouraged. (b) The courses that are chosen for rerun should have at least 500 enrolments in the earlier run. (c) The course should have the approval of Academic Council. (d) One faculty should not handle more than two courses as Course Coordinator, at a time. (e) Start dates of all the courses should be within 15 days of start of the Semester, so that exams can be planned at the same time. (e) All NCs must strictly follow the timelines of the SWAYAM Schedule as per O.M. dated 06.06.2019.

MHRD has received the list of **549** courses for January 2020 semester from NCs which is attached at **Annexure II.**

* CEC (PG Non Engineering courses) : 40 (6 New + 34 ReRun)
* CEC (UG Non Engineering courses) : 59 (16 New + 10 ReRun + 33 Repur.)

(added 8 courses from last list )

* NPTEL (PG & UG Engineering) : 373 (118 New + 251 ReRun + 4 Repur.)
* IIM Bangalore (Management) : 25 (6 New + 19 ReRun) (1 course added from

last list)

* IGNOU (Diploma & Certificate) : 23 (8 New + 15 ReRun)
* NITTTR (Teacher Training) : 29 (18 New + 11 ReRun)
* AICTE : Not Received

**Decision Sought**

The Board is requested to kindly finalize the list of courses that would be offered during the January 2020 Semester.

**Annexure II**

**List of CEC PG Courses Non Engineering proposed for January 2020 Semester**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Name of Course Coordinator** | **Name of the Course** | **enrollements in previous semesters** | **Start Date of the Course** | **End Date of the Course** | **Name of the Host University which will issue the Certificate and transfer the Credit** | **No of Credit of the Course** |
| 1 | Dr. Ajay Semalty | Academic Writing | 12186 | 13-Jan-20 | 25-Apr-20 | HNB Garhwal University, a central University, Srinagar Garhwal Uttarakhand | 4 |
| 2 | Dr. Abhishek Kumar | Animations | 23393 | 6-Jan-20 | 18-Apr-20 | Banaras Hindu University, Varanasi, Uttar Pradesh | 3 |
| 3 | Prof.Bhushan Trivedi | Artificial Intelligence | 5434 | 13-Jan-20 | 25-Apr-20 | Gujarat University | 5 |
| 4 | Dr. Arun Kumar K | Biomass Characterization | 858 | 6-Jan-20 | 18-Apr-20 | Central University of Kerala | 4 |
| 5 | M. R. Rajeswari | Biomolecules: Structure, Function in Health and Disease | 695 | 6-Jan-20 | 18-Apr-20 | All India Institute Of Medical Sciences, New Delhi | 4 |
| 6 | Dr. Felix Bast | Biostatistics and Mathematical Biology | 2251 | 6-Jan-20 | 28-Mar-20 | The Central University of Punjab, Bathinda | 3 |
| 7 | Prof. Rajiv Saxena | Business Spanish | First time run | 15-Jan-20 | 30-Apr-20 | Jawaharlal Nehru University, New Delhi | 4 |
| 8 | Dr. Dhaneswar Harichandan | Communication Technologies in Education | 2133 | 13-Jan-20 | 25-Apr-20 | University of Mumbai | 4 |
| 9 | Prof. (Dr.) G.S. Bajpai | Criminology | 1062 | 6-Jan-20 | 28-Mar-20 | National Law University Delhi | 4 |
| 10 | Prof. Subhrangshu Sekhar Sarkar | Direct Tax - Laws and Practice | 5397 | 6-Apr-20 | 30-Apr-30 | Tezpur University (A Central University) | 4 |
| 11 | Dr. C. Karthik Deepa | E-assessment | 1020 | 6-Jan-20 | 18-Apr-20 | Avinashilingam Institute for Home Science and Higher Education for Women | 4 |
| 12 | Dr Tejpal Dhewa | Food Microbiology and Food Safety | 1468 | 6-Apr-20 | 30-Apr-30 | Central University of Haryana, Mahendergarh (Haryana) | 4 |
| 13 | Gaurav Kumar | Gramática española – Nivel Avanzado | First time run | 6-Jan-20 | 11-Apr-20 | Jawaharlal Nehru University, New Delhi | 4 |
| 14 | Dr. Nabiel Ansari | Gramática española – Nivel inicial | First time run | 6-Jan-20 | 18-Apr-20 | Jawaharlal Nehru University, New Delhi | 4 |
| 15 | Prof. Shiv Shankar Mishra | Indian Culture & History (भारतीयसंस्कृतिः इतिहासश्च) | 577 (2018-19) | 6-Apr-20 | 30-Apr-30 | Shri Lal Bahadur Shastri Rastriya Sanskrit Vidyapeetha, New Delhi | 4 |
| 16 | Yogesh Pai | Intellectual Property | 1109 | 6-Apr-20 | 30-Apr-30 | National Law University Delhi | 4 |
| 17 | Prof. (Dr.) Y.S.R. Murthy | Human Rights in India | first time offered | 6-Apr-20 | 30-Apr-30 | O.P. Jindal Global University | 4 |
| 18 | Prof. Madhumangal Pal | Numerical Analysis | 1273 | 6-Jan-20 | 18-Apr-20 | The University of Calcutta | 4 |
| 19 | Prof. Bibhas Chandra Giri | Operations Research | 702 | 13-Jan-20 | 25-Apr-20 | The University of Calcutta | 4 |
| 20 | Prof. Alaka Das | Partial Differential Equations | 612 | 13-Jan-20 | 25-Apr-20 | The University of Calcutta | 4 |
| 21 | Dr. Kavita Singh | Socio Economic Offences | first time offered | 6-Jan-20 | 25-Apr-20 | National Law University, Delhi | 3 |
| 22 | Prof. Vinod Kumar Garg | Solid and hazardous Waste Management | 4764 | 6-Apr-20 | 30-Apr-30 | Central University of Punjab, Bathinda | 4 |
| 23 | Dr Ajmer Singh Malik | State and Local Governance: Machinery & Processes | 734 | 13-Jan-20 | 25-Apr-20 | Kurukshetra University Kurukshetra (Haryana) | 4 |
| 24 | Prof. Bhaswati Ganguli | Biostatistics or Discrete Data Analysis. | 487 | 6-Jan-20 | 18-Apr-20 | University of Calcutta | 4 |
| 25 | Dr. Jagdish Arora | Digital Library | 779 | 20-Jan-20 | 1-May-20 | Central University of Himachal Pradesh (Formal communication awaited ) | 5 |
| 26 | Prof. Amarendra P. Behera | Educational Administration, Management and leadership in School Education | 992 | 6-Jan-20 | 18-Apr-20 | Allahabad University, Allahabad, UP, and NCERT, New Delhi | 4 |
| 27 | Dr. Bharti | Environmental Law | 720 | 6-Jan-20 | 18-Apr-20 | National Law University Delhi | 4 |
| 28 | Dr. Rekha Sharma | Functional Foods and Nutraceuticals | 1751 | 6-Jan-20 | 30-Apr-20 | Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur | 4 |
| 29 | Prof. Deo Shankar Navin | Hindi Gadya Sahitya : Katha Sahitya | 685 | 6-Jan-20 | 18-Apr-20 | Jawaharlal Nehru University, New Delhi | 4 |
| 30 | Prof. Dr. Sanjukkta Bhaduri | City and Metropolitan Planning | 730 | 6-Jan-20 | 14-Mar-20 | School of Planning and Architecture, New Delhi | 4 |
| 31 | Sugata Sen Roy | Econometric Analysis | 600 | 6-Apr-20 | 30-Apr-30 | Univ. Of Calcutta | 4 |
| 32 | Dr. Mandar Bhanushe | Topology | 2243 | 6-Jan-20 | 30-Apr-20 | University of Mumbai | 4 |
| 33 | Prof. Uma Kanjilal | Web Content Management | 2052 | 1-Jan-20 | 3-Apr-20 | Professor, School of Social Sciences, Indira Gandhi National Open University (IGNOU) | 3 |
| 34 | Dr. Anirban Ghosh | Corporate Tax Planning |  | 6-Jan-20 | 20-Apr-20 | Associate Professor, Department of Commerce, Netaji Subhas Open University | 4 |
| 35 | Prof. Harel Thomas | Metamorphic Petrology & Thermodynamics | 799 | 13-Jan-20 | 3-May-20 | Dr. Hari Singh Gour Vishwavidyalaya, Sagar (A Central University) | 4 |
| 36 | Neeraj Tiwari | Criminal Justice Administration | 900 | 06-Jan-20 | 19-Apr-20 | National Law University Delhi | 4 |
| 37 | Dr Asha Sharma | Financial Reporting and Financial Performance Management |  | 6-Jan-20 | 23-Mar-20 | Mohanlal Sukhadiya University, Udaipur, Rajasthan | 4 |
| 38 | Prof. Ruhi Paul | Alternative Methods of Dispute Resolution (ADR) | First Time Run | 2-Jan-20 | 12-Apr-20 | National Law University Delhi | 4 |
| 39 | Dr. Kumari Seema | Dalit Sahitya |  | 6-Jan-20 | 30-Apr-20 | JNU, New Delhi | 4 |
| 40 | Dr. Ujjwal Alok | Hindi Sahitya Ka Itihas | 700 | 6-Jan-20 | 18-Apr-20 | Jawaharlal Nehru University, New Delhi | 4 |

**List of NPTEL Courses proposed for January 2020 Semester**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No**. | **Course Name** | **SME Name** | **Institute** | **Duration** | **Type** | **Course Start Date** | **Course End Date** | **UG/PG** |
| 1 | UAV Design - Part II | Prof. Saderla Subrahmanyam | IITK | 8 Weeks | New | January 27, 2020 | March 20, 2020 |  |
| 2 | Introduction to Airplane Performance | Prof. A.K. Ghosh | IITK | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 3 | Rocket Propulsion | Prof. K. Ramamurthi & Prof. S. Varunkumar | IITM | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 4 | General Aircraft Maintenance | Prof. A.K. Ghosh  Prof. Vipul Mathur | IITK | 8 weeks | New | February 24, 2020 | April 17, 2020 | UG/PG |
| 5 | Engineering Mechanics - Statics and Dynamics | Prof. Mahesh Panchagnula | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 6 | Experimental Stress Analysis | Prof. K. Ramesh | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 7 | Sustainable Architecture | Prof. Avlokita Agrawal | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 8 | Introduction to History of Architecture in India | Prof. Pushkar Sohoni | IISER Pune | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG |
| 9 | Structure, Form and Architecture: The Synergy | Prof. Shubhajit Sadhukhan | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | PG |
| 10 | Forests and their management | Prof. Ankur awadhiya | IITK | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 11 | Interactomics : Basics & Applications | Prof. Sanjeeva Srivastava | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 12 | Bioenergetics of Life Processes | Prof. Mainak Das | IITK | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 13 | Forest Biometry | Prof. Ankur awadhiya | IITK | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | PG |
| 14 | Introduction to Professional Scientific Communication | Prof. S. Ganesh | IITK | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 15 | Human Molecular Genetics | Prof. S. Ganesh | IITK | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 16 | Material and Energy Balances | Prof. Vignesh Muthuvijayan | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 17 | Computational Systems Biology | Prof. Karthik Raman | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 18 | Bioengineering: An Interface with Biology and Medicine | Prof. Sanjeeva Srivastava | IITB | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 19 | Bio-Informatics:Algorithms and Applications | Prof. Michael Gromiha | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 20 | Biostatistics and Design of experiments | Prof. Mukesh Doble | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 21 | Medical Biomaterials | Prof. Mukesh Doble | IITM | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 22 | Introductory Mathematical Methods for Biologists | Prof. Ranjit Padinhateeri | IITB | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 23 | Thermodynamics for Biological Systems: Classical and Statistical Aspect | Prof. Suraishkumar G K | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 24 | Demystifying the Brain | Prof. Srinivas Chakravarthy | IITM | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 25 | Optical Spectroscopy and Microscopy: Fundamentals of optical measurements and instrumentation | Prof. Balaji Jayaprakash | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 26 | Fundamentals of semiconductor devices | Prof. Digbijoy N. Nath | IISc | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 27 | Principles and Applications of NMR Spectroscopy | Prof. H S Atreya | IISc | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | PG |
| 28 | Environmental Quality Monitoring & Analysis | Prof. Ravi Krishna R | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 29 | Electrochemical Technology in Pollution Control | Prof. J. R. Mudakavi | IISc | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 30 | Advanced Thermodynamics | Prof. Nanda Kishore | IITG | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 31 | Membrane Technology | Prof. Kaustubha Mohanty | IITG | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 32 | Computational Fluid Dynamics | Prof. Srinivas Jayanti | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 33 | Transport phenomena | Prof. Sunando DasGupta | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 34 | Optimization in Chemical Engineering | Prof. Debasis Sarkar | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 35 | Introduction To Process Modeling In The Membrane Separation Process | Prof. Sirshendu De | IIT KGP | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 36 | Soft Nano Technology | Prof. Rabibrata Mukherjee | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 37 | Transport processes I- Heat and Mass Transfer | Prof. Kumaran V | IISc | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 38 | Process Control - Design, Analysis and Assessment | Prof. Ragunathan Rengasamy | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 39 | Heat Transfer | Prof. Ganesh Viswanathan | IITB | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 40 | Chemical Reaction Engineering II | Prof. Ganesh Viswanathan | IITB | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 41 | Multiphase Flows | Prof. Rajesh Kumar Upadhyay | IITG | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 42 | Mass Transfer Operations-I | Prof. Bishnupada Mandal | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 43 | Waste to Energy Conversion | Prof. P. Mondal | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 44 | Equipment Design: Mechanical Aspects | Prof. Shabina Khanam | IITR | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG |
| 45 | An Introduction to Cardiovascular Fluid Mechanics | Prof. Raghvendra Gupta | IITG | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 46 | Computer Aided Applied Single Objective Optimization | Prof. Prakash Kotecha | IITG | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 47 | Organic Chemistry II | Prof. Neeraja Dashaputre Prof. Harinath Chakrapani | IISER Pune | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG |
| 48 | Quantitative Methods in Chemistry | Prof. Aasheesh Srivastava Prof. Bharathwaj Sathyamoorthy | IISER Bhopal | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 49 | Basics in Inorganic Chemistry | Prof. D. Maiti | IITB | 4 Weeks | New | January 27, 2020 | February 21, 2020 | UG |
| 50 | Ultrafast laser spectroscopy | Prof. Anindya Datta | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 51 | Transition Metal Organometallics in Catalysis and Biology | Prof. P. Ghosh | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 52 | Essentials of Oxidation, Reduction and C-C Bond Formation. Application in Organic Synthesis | Prof. Yashwant D Vankar | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 53 | Essentials of Biomolecules: Nucleic Acids and Peptides | Prof. Lal Mohan Kundu | IITG | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 54 | Fundamentals of Spectroscopy | Prof. Sayan Bagchi Prof. Anirban Hazra | NCL Pune,  IISER Pune | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 55 | Advanced Chemical Thermodynamics and Kinetics | Prof. Arijit Kumar De | IISER Mohali | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 56 | Biochemistry | Prof. Swagata Dasgupta | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 57 | Reactive Intermediates Carbene and Nitrene | Prof. Rajarshi Samanta | IIT KGP | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG |
| 58 | Organometallic Chemistry | Prof. D. Maiti | IITB | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG |
| 59 | Chemical Applications of Symmetry and Group Theory | Prof. Manabendra Chandra | IITK | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 60 | chemical principles II  ( New name : Basic thermodynamics: Classical and Statistical Approaches) | Prof. Arnab Mukherjee | IISER Pune | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 61 | Pericyclic Reactions and Organic Photochemistry | Prof. Sankararaman | IITM | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 62 | Medicinal Chemistry | Prof. Harinath Chakrapani | IISER Pune | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 63 | Characterization of Construction Materials | Prof. Manu Santhanam Prof. Piyush Chaunsali | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 64 | Introduction to Civil Engineering Profession | Prof. Ravindra Gettu | IITM | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG |
| 65 | Environmental Geomechanics | Prof. D. N. Singh | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 66 | Mechanical Characterization of Bituminous Materials | Prof. M. R. Nivitha (MRN) Prof. Neethu Roy(NR) Prof. A. Padmarekha(APR) Prof. J. Murali Krishnan(JMK) | PSG Tech., Coimbatore  MBCET, Trivandrum  SRM IST, Kattankulathur  IIT Madras | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 67 | Modern Construction Materials | Prof. Ravindra Gettu | IITM | 12 Weeks | Repurposed | January 27, 2020 | April 17, 2020 | UG/PG |
| 68 | Geosynthetics And Reinforced Soil Structures | Prof. K.Rajagopal | IITM | 12 Weeks | Repurposed | January 27, 2020 | April 17, 2020 | PG |
| 69 | Natural Hazards | Prof. Javed N. Malik | IITK | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | PG |
| 70 | Energy Efficiency, Acoustics and Daylighting in Building | Prof. Prof. B Bhattacharjee | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 71 | Fire Protection, Services and Maintenance Management of Building | Prof. Prof. B Bhattacharjee | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 72 | Geotechnical Engineering II Foundation Engineering | Prof. Dilip Kumar Baidya | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 73 | Landscape Architecture and Site Planning - Basic Fundamentals | Prof. Uttam Kumar Banerjee | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG |
| 74 | Electronic Waste Management - Issues And Challenges | Prof. Brajesh Kumar Dubey | IIT KGP | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 75 | Plastic Waste Management | Prof. Brajesh Kumar Dubey | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | PG |
| 76 | Architectural Conservation And Historic Preservation | Prof. Sanghamitra Basu | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 77 | Advanced Topics in the Science and Technology of Concrete | Prof. Ravindra Gettu & Prof. Manu Santhanam | IITM | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 78 | Higher Surveying | Prof. Ajay Dashora | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 79 | Applied Environmental Microbiology | Prof. Gargi Singh | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 80 | Digital Land Surveying And Mapping (DLS&M) | Prof. J. K. Ghosh | IITR | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 81 | Digital elevation models and applications | Prof. Arun K. Saraf | IITR | 4 Weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 82 | Introduction to Geographic Information Systems | Prof. Arun K. Saraf | IITR | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 83 | Structural Dynamics | Prof. Ramancharala Pradeep Kumar | IIITH | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 84 | Soil Structure Interaction | Prof. Koushik Deb | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 85 | Water Supply Engineering | Prof. Manoj Kumar Tiwari | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 86 | Geo Spatial Analysis in Urban Planning | Prof. Saikat Kumar Paul | IIT Kgp | 4 weeks | New | January 27, 2020 | February 21, 2020 | PG |
| 87 | Geotechnical Engineering- 1 | Prof. D. N. Singh | IITB | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 88 | Maintenance and Repair of Concrete Structures | Prof. Radhakrishna G. Pillai | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 89 | Thermodynamics | Prof. Anand T. N. C | IITM | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 90 | Geomorphology | Prof. Pitambar Pati | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 91 | Remote Sensing Essentials | Prof. Arun K. Saraf | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 92 | Introduction to Blockchain Technology and Applications | Prof. Sandeep Shukla | IITK | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 93 | Foundations of Cryptography | Prof. Ashish Choudhury | IIIT Bangalore | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 94 | Introduction to Database Systems | Prof. Sreenivasa Kumar | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 95 | Operating System | Prof. Sorav Bansal | IITD | 12 Weeks | Repurposed | January 27, 2020 | April 17, 2020 | UG |
| 96 | Computational Geometry | Prof. Sandeep Sen | IITD | 12 Weeks | Repurposed | January 27, 2020 | April 17, 2020 | UG |
| 97 | Problem solving through Programming In C | Prof. Anupam Basu | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 98 | Programming in C++ | Prof. Partha Pratim Das | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 99 | Programming in Java | Prof. Debasis Samanta | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 100 | Data Base Management System | Prof. Partha Pratim Das | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 101 | Introduction to algorithms and analysis | Prof. Sourav Mukhopadhyay | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 102 | Deep Learning | Prof. Prabir Kumar Biswas | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 103 | Data Mining | Prof. Pabitra Mitra | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG |
| 104 | Compiler Design | Prof. Santanu Chattopadhyay | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 105 | Embedded Systems Design | Prof. Anupam Basu | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 106 | Embedded System Design with ARM | Prof. Indranil Sengupta and Prof. Kamalika Dutta | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 107 | Real Time Operating System | Prof. Rajib Mall | IIT KGP | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | PG |
| 108 | Introduction To Soft Computing | Prof. Debasis Samanta | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 109 | VLSI Physical Design | Prof. Indranil Sengupta | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 110 | Software Testing | Prof. Rajib Mall | IIT KGP | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 111 | Cloud computing | Prof. Soumya Kanti Ghosh | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG |
| 112 | Cryptography and Network Security | Prof. Sourav Mukhopadhyay | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 113 | Introduction to internet of things | Prof. Sudip Misra | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 114 | Computer Networks and Internet Protocol | Prof. Soumya Kanti Ghosh & Prof. Sandip Chakraborty | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 115 | Introduction to Industry 4.0 and Industrial Internet of Things | Prof. Sudip Misra | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 116 | Computer Architecture | Prof. Smruti Ranjan Sarangi | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 117 | Programming, Data Structures And Algorithms Using Python | Prof. Madhavan Mukund | CMI | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 118 | Design and analysis of algorithms | Prof. Madhavan Mukund | CMI | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 119 | Data Science for Engineers | Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 120 | Introduction to Machine Learning | Prof. Balaraman Ravindran | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 121 | Artificial Intelligence: Knowledge Representation And Reasoning | Prof.Deepak Khemani | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 122 | Privacy and Security in Online Social Media | Prof. Ponnurangam Kumaraguru | IIITD | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 123 | Social Networks | Prof. Sudarshan Iyengar | IIT Ropar | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 124 | Information Security - 5 - Secure Systems Engineering | Prof. Chester Rebeiro | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 125 | Foundations to Computer Systems Design | Prof. Kamakoti Veezhinathan | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 126 | The Joy of Computing using Python | Prof. Sudarshan Iyengar | IIT Ropar | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 127 | Python for Data Science | Prof. Ragunathan Rengasamy | IITM | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG |
| 128 | Discrete Mathematics | Prof. Sudarshan Iyengar | IIT Ropar | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 129 | Model Checking | Prof. Srivathsan.B | CMI | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 130 | Randomized Algorithms | Prof. Benny George K | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 131 | Introduction to Data Analytics | Prof. Nandan Sudarsanam Prof. Balaraman Ravindran | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 132 | GPU Architectures and Programming | Prof. Soumyajit Dey | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 133 | An Introduction to Artificial Intelligence | Prof. Mausam | IITD | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 134 | Multi-Core Computer Architecture – Storage and Interconnects | Prof. John Jose | IITG | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 135 | Practical Machine Learning with Tensorflow | Prof. Ashish Tendulkar  Prof. B. Ravindran | IITM & Google | 8 weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 136 | User-centric Computing for Human-Computer Interaction | Prof. Samit Bhattacharya | IITG | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 137 | Data Analytics with Python | Prof. A Ramesh | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 138 | Arithmetic Circuit Complexity | Prof. Nitin Saxena | IITK | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 139 | Understanding Design | Prof. Nina Sabnani | IITB | 4 Weeks | Rerun | February 24, 2020 | March 20, 2020 | UG |
| 140 | Innovation by Design | Prof. B.K. Chakravarthy | IITB | 4 Weeks | Rerun | February 24, 2020 | March 20, 2020 | UG |
| 141 | Design, Technology and Innovation | Prof. B.K. Chakravarthy | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 142 | Geographic Information System | Prof. Bharath H Aithal | IIT KGP | 12 weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 143 | Product Design and Innovation | Prof. Supradip Das & Prof.Swati Pal & Prof. Debayan Dhar | IITG | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 144 | Fundamentals of Automotive Systems | Prof. C. S. Shankar Ram | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 145 | Electronics equipment integration and Prototype building | Prof. N.V.Chalapathi Rao | IISc | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 146 | High Power Multilevel Converters- Analysis, design and operational issues | Prof. Anand rup | IITD | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 147 | Peer To Peer Networking | Prof. Y.N.Singh | IITK | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 148 | Transmission lines and electromagnetic waves | Prof. Ananth Krishnan | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 149 | Digital IC Design | Prof. Janakiraman | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 150 | Signals and Systems | Prof. Kushal K. Shah | IISER Bhopal | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 151 | Digital Signal Processing and its Applications | Prof. V. M. Gadre | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 152 | Power Management Integrated Circuits | Prof. Qadeer Ahmad Khan | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 153 | DC Power Transmission Systems | Prof. Krishna S | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 154 | Power Quality Improvement Technique | Prof. Avik Bhattacharya | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | PG |
| 155 | Microprocessors and Interfacing | Prof. Shaik Rafi Ahamed | IITG | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 156 | Design and Simulation of DC-DC converters using open source tools | Prof. L Umanand | IISc | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 157 | Integrated Circuits, Mosfets, OP-Amps and their Applications | Prof. Hardik Jeetendra Pandya | IISc | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 158 | Electronic Systems for Cancer Diagnosis | Prof. Hardik Jeetendra Pandya | IISc | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 159 | Principles of Signals and Systems | Prof. Aditya K. Jagannatham | IITK | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 160 | Principles of Communication Systems - I | Prof. Aditya K. Jagannatham | IITK | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 161 | Principles of Digital Communication | Prof. Abhishek Dixit | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 162 | Electric Vehicles - Part 1 | Prof. Amit Jain | IITD | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 163 | Nonlinear Adaptive Control | Prof. Shubhendu Bhasin | IITD | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 164 | Antennas | Prof. Girish Kumar | IITB | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 165 | Multirate DSP | Prof. R. David Koilpillai | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 166 | Control engineering | Prof. Ramkrishna.P | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 167 | Introduction to Photonics | Prof. Balaji Srinivasan | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 168 | Analog Circuits | Prof. Jayanta Mukherjee | IITB | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 169 | Microwave Integrated Circuits | Prof. Jayanta Mukherjee | IITB | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 170 | Analog Ic Design | Prof. Aniruddhan.S | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 171 | Analog Circuits | Prof. Nagendra Krishnapura | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 172 | Advance power electronics and Control | Prof. Avik Bhattacharya | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 173 | CMOS Digital VLSI Design | Prof. Sudeb Dasgupta | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 174 | Analog Circuits and Systems through SPICE Simulation | Prof. Mrigank Sharad | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 175 | Discrete Time Signal Processing | Prof. Mrityunjoy Chakraborty | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 176 | Digital Electronic Circuits | Prof. Goutam Saha | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 177 | Fundamentals of MIMO Wireless Communication | Prof. Suvra Sekhar Das | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 178 | Spread Spectrum Communications and Jamming | Prof. Debarati Sen | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 179 | Basic Building Blocks of Microwave Engineering & Design Principles of RF and Microwave Filters and Amplifiers | Prof. Amitabha Bhattacharya | IIT KGP | 8 weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 180 | Evolution of Air Interface towards 5G | Prof. Suvra Sekhar Das | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 181 | Architectural Design of Digital Integrated Circuits | Prof. Indranil Hatai | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 182 | Electrical Machines - II | Prof. Tapas Kumar Bhattacharya | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 183 | Power System Engineering | Prof. Debapriya Das | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 184 | Medical Image Analysis | Prof. Debdoot Sheet | IIT KGP | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 185 | Biomedical Signal Processing | Prof. Sudipta Mukhopadhyay | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 186 | Microprocessors And Microcontrollers | Prof. Santanu Chattopadhyay | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 187 | Recent Advances in Transmission Insulator | Prof. Subba Reddy | IISc | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 188 | VLSI Signal Processing | Prof. Mrityunjay Chakraborty | IIT Kgp | 8 Weeks | New | February 24, 2020 | April 17, 2020 | UG/PG |
| 189 | Analog Electronic Circuits | Prof. Pradip Mandal | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 190 | Network Analysis | Prof. Tapas Kumar Bhattacharya | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 191 | Linear Dynamical Systems | Prof. Tushar JAIN | IIT Mandi | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG |
| 192 | Optical Engineering | Prof. Shanti Bhattacharya | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 193 | Information Theory | Prof. Himanshu Tyagi | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 194 | Introductory Neuroscience & Neuro-Instrumentation | Prof. Mahesh Jayachandra | IISc | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 195 | Mathematical Methods and Techniques in Signal Processing | Shayan Srinivasa Garani | IISc | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 196 | A brief introduction of Micro-Sensors | Prof. Santanu Talukder | IISER Bhopal | 4 weeks | New | January 27, 2020 | February 21, 2020 | PG |
| 197 | Statistical Signal Processing | Prof. Prabin Kumar Bora | IITG | 12 weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 198 | Non-Linear Control | Prof. Ramkrishna Pasumarthy | IITM | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 199 | Microeconomics: Theory & Applications | Prof. Deep Mukerjee | IITK | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 200 | Introduction to Environmental Economics | Prof. Diptimayee Nayak and Prof. S.P. Singh | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 201 | Energy Resources, Economics and Environment | Prof. Rangan Bnerjee | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 202 | Literary Criticism (From Plato to Leavis) | Prof. Merin Simi Raj | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 203 | Twentieth Century Fiction | Prof. Avishek Parui | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 204 | Effective Writing | Prof. Binod Mishra | IITR | 4 Weeks | New | January 27, 2020 | February 21, 2020 | UG/PG |
| 205 | Strategic Trade and protectionism-Theories and Empirics | Prof. Pratap C. Mohanty | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | PG |
| 206 | Understanding Design Thinking & People Centred Design | Prof. Jhumkee Iyengar | IITK | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | PG |
| 207 | Introduction to Indian Art - An appreciation | Prof. Soumik Nandi Majumdar | Visva Bharati University, Santiniketan | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 208 | Enhancing Soft Skills and Personality | Prof. T. Ravichandran | IITK | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 209 | Introduction to Cultural Studies | Prof. Avishek Parui | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 210 | Introduction to Basic Spoken Sanskrit | Prof. Anuradha Choudry | IIT KGP | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 211 | Emotional Intelligence | Prof. Rabindra Kumar Pradhan | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 212 | Speaking Effectively | Prof. Anjali Gera Roy | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 213 | Employment Communication A Lab based course | Prof. Seema Singh | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 214 | Soft Skill Development | Prof. Priyadarshi Patnaik, Prof. V.N. Giri & Prof. D. Suar | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 215 | Strategic Performance Management | Prof. KBL Srivastava | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 216 | Intellectual Property | Prof. Feroz Ali | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 217 | English Language for Competitive Exams | Prof. Aysha Iqbal | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 218 | Health Research Fundamentals | Prof. P. Manickam | NIE | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | PG |
| 219 | Literature for competitive exams | Prof. Aysha Iqbal | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 220 | Language and Mind | Prof. Rajesh Kumar | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 221 | The Nineteenth-Century English Novel | Prof. A. Divya | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 222 | Introduction to World Literature | Prof. Merin Simi Raj | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 223 | Patent Drafting for Beginners | Prof. Feroze | IITM | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 224 | Patent Law for Engineers and Scientists | Prof. Feroze | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 225 | Economic Growth & Development | Prof. Rajshree Bedamatta | IITG | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 226 | Human Behaviour | Prof. Naveen Kashyap | IITG | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 227 | Introduction to Cognitive Psychology | Prof. Naveen Kashyap | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 228 | Introduction to Modern Indian Political Thought | Prof. Mithilesh Kumar Jha | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 229 | English Literature of the Romantic Period, 1798-1832 | Prof. Pramod K. Nayar | University of Hydrabad | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 230 | Literature, Culture and Media | Prof. Rashmi Gaur | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 231 | Global Environmental Protection Science, Law and Technology | Prof. Balraj K Sidhu | IIT Kgp | 8 Weeks | New | February 24, 2020 | April 17, 2020 | PG |
| 232 | Introduction to Modern Indian Drama | Prof. Kiran Keshavamurthy | IITG | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 233 | Introduction to Political Theory | Prof. Mithilesh Kumar Jha | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 234 | Modern Indian Writing in Translation | Prof. A. Divya | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 235 | Introduction to Political Ideologies: Contexts, Ideas, and Practices | Prof. Arvind Sivaramakrishnan | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 236 | Indian Business History | Prof. Vipul Dutta | IITG | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 237 | Introduction to Stochastic Processes | Prof. Manjesh hanawal | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 238 | Introduction to System Dynamics Modeling | Prof. Jayendran Venkateswaran | IITB | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 239 | Management of New Products and Services | Prof. Jayanta Chatterjee | IITK | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 240 | Integrated Marketing Management | Prof. R Srinivasan | IISc | 8 Weeks | New | January 27, 2020 | March 20, 2020 | PG |
| 241 | Technology Management | Prof. K.B Akhilesh | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 242 | Production and Operation Management | Prof. Rajat Agrawal | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 243 | Services Marketing: Integrating People,Technology,Strategy | Prof. Zillur Rahman | IITR | 8 Weeks | New | February 24, 2020 | April 17, 2020 | PG |
| 244 | Managerial Skills for Interpersonal Dynamics | Prof. Santosh Rangnekar | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 245 | Design Thinking - A Primer | Prof. Ashwin Mahalingam Prof. Bala Ramadurai | IITM | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 246 | Financial Institutions and Markets | Prof. Jitendra Mahakud | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 247 | Business Analytics For Management Decision | Prof. Rudra P Pradhan | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 248 | Services Marketing: A Practical Approach | Prof. Biplab Datta | IIT KGP | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 249 | Sales and Distribution Management | Prof. Sangeeta Sahney | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 250 | Consumer Behaviour | Prof. Srabanti Mukherjee | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 251 | Principles of Human Resource Management | Prof. Aradhana Malik | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 252 | Managing change in organizations | Prof. KBL Srivastava | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 253 | Management of Inventory Systems | Prof. PK Ray | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 254 | Quality Design And Control | Prof. Pradip Kumar Ray | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 255 | Six Sigma | Prof. Jitesh J Thakkar | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 256 | Foundation Course in Managerial Economics | Prof. Barnali Nag | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 257 | Engineering Econometrics | Prof. Rudra P Pradhan | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 258 | Financial Statement Analysis and Reporting | Prof. Anil K. Sharma | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 259 | Business Statistics | Prof. Mukesh Kumar Barua | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 260 | Business analytics and data mining Modeling using R | Prof. Gaurav Dixit | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 261 | Global Marketing Management | Prof. Z. Rahman | IITR | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 262 | Marketing Research and Analysis-II | Prof. J. K. Nayak | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 263 | Supply Chain Analytics | Prof. Rajat Agrawal | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 264 | Infrastructure Planning and Managements | Prof. Ashwin Mahalingam | IITM | 12 weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 265 | Modelling and Analytics for Supply Chain Management | Prof. Kunal Kanti Ghosh Prof. Anupam Ghosh | IIT KGP | 12 weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 266 | Marketing Analytics | Prof. Swagato Chatterjee | IIT KGP | 12 weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 267 | Financial Management For Managers | Prof. Anil K. Sharma | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 268 | Management of Commercial Banking | Prof. Jitendra Mahakud | IIT KGP | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 269 | Behavioral and Personal Finance | Prof. Abhijeet Chandra | IIT KGP | 8 weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 270 | An introduction to smooth manifolds. | Prof. Harish Seshadri | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 271 | Measure Theory | Prof. E. K. Narayanan | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 272 | Basic Real Analysis | Prof. I. K. Rana | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 273 | Probabilistic Methods in PDE | Prof. Anindya Goswami | IISER Pune | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 274 | Graph Theory | Prof. Soumen Maity | IISER Pune | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 275 | Transform Calculus and its applications in Differential Equations | Prof. Adrijit Goswami | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 276 | Integral and Vector Calculus | Prof. Hari Shankar Mahato | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 277 | Basic Linear Algebra | Prof. I. K. Rana | IITB | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 278 | Introduction To Rings And Fields | Prof. Krishna Hanumanthu | CMI | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | PG |
| 279 | Numerical Methods: Finite difference approach | Prof. Ameeya Kumar Nayak | IITR | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 280 | Numerical Linear Algebra | Prof. P. N. Agrawal & Prof. D. N. Pandey | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 281 | Ordinary and Partial Differential Equations and Applications | Prof. P. N. Agrawal & Prof. D. N. Pandey | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 282 | Advanced Engineering Mathematics | Prof. P. N. Agarwal | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 283 | Mathematical Methods and its Applications | Prof. P.N. Agarwal & Prof. S. K. Gupta | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 284 | Multivariable calculus | Prof. S. K. Gupta & Prof. Sanjeev Kumar | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 285 | Chaotic Dynamical System | Prof. Anima Nagar | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 286 | Engineering Mathematics II | Prof. Jitendra Kumar | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 287 | Advanced Probability Theory | Prof. Niladri Chatterjee | IITD | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 288 | Statistical Inference | Prof. Niladri Chatterjee | IITD | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 289 | Introduction to Algebraic Geometry and Commutative Algebra | Prof. Dilip P. Patil | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 290 | Robotics and Control: Theory and Practice | Prof. N. Sukavanam & Prof.M.Felix Orlando | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 291 | Cell Culture Technologies | Prof. Mainak Das | IITK | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 292 | Introduction to Soft Matter | Prof. Aloke Kumar | IISc | 8 Weeks | New | February 24, 2020 | April 17, 2020 | UG/PG |
| 293 | Computational Fluid Dynamics for Incompressible Flows | Prof. Amaresh Dalal | IITG | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 294 | Experimental Methods in Fluid Mechanics | Prof. Pranab K. Mondal | IITG | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 295 | Foundations of Computational Materials Modelling | Prof. Narashiman swaminathan | IITM | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 296 | Acoustic Metamaterials | Prof. Sneha Singh | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | PG |
| 297 | Power Plant Engineering | Prof. Ravi Kumar | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG |
| 298 | Applied Ergonomics | Prof. Shantanu Bhattacharya and Prof. Ankur Gupta | IITK | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 299 | Product Design and Manufacturing | Prof. J. Ramkumar / Dr. Amandeep Singh | IITK | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 300 | Nature and Properties of Materials | Prof. Bisakh Bhattacharya | IITK | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG |
| 301 | Manufacturing Process Technology I & II | Prof. Shantanu Bhattacharya | IITK | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 302 | Introduction To Mechanical Micro Machining | Prof. Ajay M Sidpara | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 303 | Metal Cutting And Machine Tools | Prof. Asimava Roy Choudhury | IIT KGP | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 304 | Non Traditional Abrasive Machining ProcessesUltrasonic, Abrasive Jet and Abrasive Water Jet Machining | Prof. Asimava Roy Choudhury | IIT KGP | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG |
| 305 | Gear And Gear Unit Design : Theory And Practice | Prof. Rathindranath Maiti | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG |
| 306 | Conduction and Convection Heat Transfer | Prof. Suman Chakraborty and Prof. Sankar Kumar Som | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 307 | Laws of Thermodynamics | Prof. S.K Som & Prof. Suman Chakraborty | IIT KGP | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | UG |
| 308 | Kinematics of Mechanisms and Machines | Prof. Anirvan DasGupta | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 309 | Introduction To Fluid Mechanics | Prof. Suman Chakraborty | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 310 | Fundamental of Welding Science and Technology | Prof. Pankaj Biswas | IITG | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 311 | Introduction to Abrasive Machining and Finishing Processes | Prof. Mamilla Ravi Sankar | IITG | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 312 | Automatic Control | Prof. Anil Kumar | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 313 | Failure analysis and Prevention | Prof. D. K. Dwivedi | IITR | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 314 | Inspection and Quality Control in Manufacturing | Prof. Kaushik Pal | IITR | 4 weeks | Rerun | February 24, 2020 | March 20, 2020 | UG/PG |
| 315 | Manufacturing Guidelines for Product Design | Prof. Inderdeep Singh | IITR | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 316 | Processing of Polymers and Polymer Composites | Prof. Inderdeep Singh | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 317 | Operations Management | Prof. Inderdeep Singh | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 318 | Convective Heat Transfer | Prof. Arup Kumar Das | IITR | 4 Weeks | Rerun | February 24, 2020 | March 20, 2020 | UG |
| 319 | Two phase flow and heat transfer | Prof. Arup Kumar Das | IITR | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 320 | Steam and Gas Power Systems | Prof. Ravi Kumar | IITR | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 321 | Mechanical Measurement System | Prof. Ravi Kumar | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 322 | Principles of Casting Technology | Prof. Pradeep Kumar Jha | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 323 | Financial Mathematics | Prof. Pradeep K. Jha | IITR | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 324 | Modelling and Simulation of Dynamic Systems | Prof. Pushparaj Mani Pathak | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 325 | Fundamentals of combustion for propulsion | Prof. S Varunkumar | IITM | 8 weeks | New | January 27, 2020 | March 20, 2020 | PG |
| 326 | Industrial Automation And Control | Prof. Siddhartha Mukhopadhyay | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 327 | Fundamentals of Nuclear Power Generation | Prof. Dipankar N.Basu | IITG | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 328 | Mechanics of Machining | Prof. Uday S. Dixit | IITG | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 329 | IC Engines and Gas Turbines | Prof. Pranab K. Mondal & Prof. Vinayak N. Kulkarni | IITG | 12 weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 330 | Principles of Industrial Engineering | Prof. D K Dwivedi | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 331 | Computer Integrated Manufacturing | Prof. J. Ramkumar Prof. Amandeep Singh | IITK | 12 weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 332 | Modeling of tundish steelmaking process in continuous casting | Prof. Pradeep Kumar Jha | IITR | 8 Weeks | New | January 27, 2020 | March 20, 2020 | UG/PG |
| 333 | Fundamentals Of Electronic Materials And Devices | Prof. Parasuraman Swaminathan | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 334 | Introduction to Materials Science and Engineering | Prof. Rajesh Prasad | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 335 | Corrosion - Part I | Prof. Kallol Mondol | IITK | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 336 | Solar Photovoltaics: Principles, Technologies & Materials | Prof. Ashish Garg | IITK | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 337 | Welding Processes | Prof. Murugaiyan Amirthalingam | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 338 | Theory and Practice of Non Destructive Testing | Prof. Ranjit Bauri | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 339 | Steel Quality: Role of Secondary Refining & Continuous Casting | Prof. Santanu Kr. Ray | IITM | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 340 | Materials Science and Engineering | Prof. Vivek Pancholi | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG |
| 341 | Surface Engineering of Nanomaterials | Prof. Kaushik Pal | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 342 | Dealing with materials data: collection, analysis and interpretation | Prof. M P Gururajan | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 343 | Friction and Wear of materials: principle and case studies | Prof. Dr. B. V. Manoj Kumar, Prof. Bikramjit Basu | IITR & IISc | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 344 | Properties of Materials (Nature and Properties of Materials: III) | Prof. Ashish Garg | IITK | 8 weeks | New | February 24, 2020 | April 17, 2020 | UG |
| 345 | Qualitative Research Methods and Research Writing | Prof. Aradhna Malik | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | PG |
| 346 | Ethics in Engineering Practice | Prof. Susmita Mukhopadhyay | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 347 | Effective Engineering Teaching In Practice | Prof. G. K. Suraishkumar, in association with TLC, IIT Madras | IITM | 4 weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 348 | Introduction to Research | Prof. Prathap Haridoss | IITM | 4 Weeks | Rerun | February 24, 2020 | March 20, 2020 | PG |
| 349 | Matlab Programming for Numerical Computation | Prof. Niket Kaisare | IITM | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 350 | Non-Conventional Energy Resources | Prof. Prathap Haridoss | IITM | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 351 | Roadmap for patent creation | Prof. Gouri Ghargate | IIT KGP | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 352 | Entrepreneurship Essentials | Prof. Manoj Kumar Mondal | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 353 | Fuzzy Logic and Neural Networks | Prof. Dilip Kumar Pratihar | IIT KGP | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | UG/PG |
| 354 | Manage TB | Prof. Mohan Natrajan & Dr. V V Banu Rekha | NIRT | 8 Weeks | Rerun | February 24, 2020 | April 17, 2020 | PG |
| 355 | NBA Accreditation and Teaching-Learning in Engineering (NATE) | Prof. N J Rao | IISc | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 356 | Designing Learner-Centric MOOCs | Prof. Sridhar Iyer Prof. Sahana Murthy  Prof. Jayakrishnan M Prof. Sameer Sahasrabudhe | IITB | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | PG |
| 357 | Physics through Computational Thinking | Prof. Auditya Sharma Prof. Ambar Jain | IISER Bhopal | 8 Weeks | New | February 24, 2020 | April 17, 2020 | UG |
| 358 | Physics of Biological Systems | Prof. Mithun Mitra | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 359 | Group Theory methods in Physics | Prof. P. Ramadevi | IITB | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 360 | Experimental Physics - II | Prof. Amal Kumar Das | IIT KGP | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 361 | Quantum Mechanics I | Prof. Ramadevi | IITB | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 362 | A brief course on Superconductivity | Prof. Saurabh Basu | IITG | 4 Weeks | Rerun | January 27, 2020 | February 21, 2020 | UG/PG |
| 363 | Fiber Optics | Prof. Vipul Rastogi | IITR | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 364 | Electromagnetism | Prof. Nirmal Ganguli | IISER Bhopal | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 365 | Experimental Physics III | Prof. Amal Kumar Das | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG |
| 366 | Electronic Theory of Solids | Prof. Arghya Taraphder | IIT Kgp | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 367 | Introduction to Atmospheric and Space Sciences | Prof. MV Sunil Krishna | IITR | 12 Weeks | New | January 27, 2020 | April 17, 2020 | UG/PG |
| 368 | Introduction to Classical Mechanics | Prof. Anurag Tripathi | IIT Hyderabad | 12 Weeks | New | January 27, 2020 | April 17, 2020 | PG |
| 369 | Optical Sensors | Prof. Sachin Kumar Srivastava | IITR | 4 Weeks | New | January 27, 2020 | February 21, 2020 | UG/PG |
| 370 | Evaluation of Textiles Materials | Prof. Apurba Das | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG |
| 371 | Advanced Textile Printing Technology | Prof. Kushal Sen | IITD | 8 Weeks | Rerun | January 27, 2020 | March 20, 2020 | UG/PG |
| 372 | Textured Yarn Technology | Prof. Kushal Sen | IITD | 12 Weeks | Rerun | January 27, 2020 | April 17, 2020 | UG/PG |
| 373 | Theory of Yarn Structure | Prof. Dipayan Das | IITD | 8 + 4 =12 | Rerun+4 weeksNew | January 27, 2020 | April 17, 2020 | UG |

**List of NITTTR Courses proposed for January 2020 Semester**

| **S.**  **No** | **Course** | **Course Title** | **Course Hours** | **NITTTR** | **Course Coordinator Name** | **Course Coordinator Details** | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Contact No** | **E- Mail ID** |
| 1 | New | Orientation towards Technical Education & curriculum Aspects | 40Hrs | Chennai | Dr. P. Malliga | 9380342066 | pm.nitttrc@gmail.com |
| 2 | New | Professional Ethics & Sustainability | 40Hrs | Bhopal | Dr. S. K. Gupta | 8347752980 | [skgupta@nitttrbpl.ac.in](mailto:skgupta@nitttrbpl.ac.in) |
| 3 | New | Communication skills, Modes and Knowledge Dissemination | 40Hrs | Chandigarh | Dr. Amardeep Kaur |  | amandeep@nitttrchd.ac.in |
| 4 | New | Instructional Planning and Delivery | 40Hrs | Bhopal | Dr. Kiran Saksena | 9039043279 | [ksaksena@nitttrbpl.ac.in](mailto:ksaksena@nitttrbpl.ac.in) |
| 5 | New | Technology Enabled learning and Lifelong Self – learning | 40Hrs | Chennai | Dr. G. Janardhanan | 9445520968 | dr.gjanardhanan@gmail.com |
| 6 | New | Student Assessment and Evaluation | 40Hrs | Chandigarh | Dr. V. Shanmuganeethi | 9444289146 | shanneethi@gmail.com |
| 7 | New | Creative Problem Solving, Innovation and Meaningful R&D | 40Hrs | Chandigarh | Dr. P. K. Tulsi | 9814810932 | pk\_tulsi@yahoo.com |
| 8 | New | Institutional Management & Administrative procedures | 40Hrs | Chandigarh | Dr. R. K. Wats |  | rakeshkwats@gmail.com |
| 9 | New | Basic Instructional Methods | 20Hrs | Bhopal | Prof.(Mrs)S.S. Mathew | 7552738431 | [ssmathew@nitttrbpl.ac.in](mailto:ssmathew@nitttrbpl.ac.in) |
| 10 | New | Advanced Instructional Methods | 20Hrs | Bhopal | Prof. (Mrs.) A.A.Khajanchee | 9826491529 | [aakhajanchee@nitttrbpl.ac.in](mailto:aakhajanchee@nitttrbpl.ac.in) |
| 11 | New | Instructional Media | 20Hrs | Bhopal | Dr.S.S.Kedar | 9425007408 | [sskedar@nitttrbpl.ac.in](mailto:sskedar@nitttrbpl.ac.in) |
| 12 | New | Performance Appraisal and Management | 20Hrs | Bhopal | Dr. Parag Dubey, | 9425012819 | [pdubey@nitttrbpl.ac.in](mailto:pdubey@nitttrbpl.ac.in) |
| 14 | New | Technical Education for Sustainable Development | 40Hrs | Bhopal | Dr. S.K.Gupta | 8347752980 | [skgupta@nitttrbpl.ac.in](mailto:skgupta@nitttrbpl.ac.in) |
| 15 | New | Instructional Planning | 20Hrs | Chandigarh | P K Tulsi / Sunil Dutt | 9814810932/  9815906121 | pk\_tulsi@yahoo.com  sunildutt@nitttrchd.ac.in |
| 16 | New | LMS Moodle | 20Hrs | Chennai | Dr. V. Shanmuganeethi | 9444289146 | velushanneethi@gmail.com |
| 17 | New | Student Psychology | 40 | Chennai | Dr. S. Renukadevi |  | bmrenuka@gmail.com |
| 18 | New | Strategic Planning for technical institutions | 20 | Chennai | Dr. S. Dhanapal |  | rasdp53@gmail.com |
| 19 | **Re – run** | Accreditation for Diploma Engineering Programmes | 40Hrs | Bhopal | Dr.B.L.Gupta | 9406523224 | [blgupta@nitttrbpl.ac.in](mailto:blgupta@nitttrbpl.ac.in) |
| 20 | **Re – run** | Accreditation for Undergraduate Engineering Programmes | 40Hrs | Bhopal | Dr. R.K.Dixit, | 9425163874 | [rkdixit@nitttrbpl.ac.in](mailto:rkdixit@nitttrbpl.ac.in) |
| 21 | **Re – run** | Fundamentals of Curriculum in Engineering Education | 20Hrs | Bhopal | Dr.Joshua Earnest | 9406564239 | [jearnest@nitttrbpl.ac.in](mailto:jearnest@nitttrbpl.ac.in) |
| 22 | **Re – run** | ICT in Teaching and Learning | 20Hrs | Bhopal | Dr.K.James Mathai | 9425012553 | [kjmathai@nitttrbpl.ac.in](mailto:kjmathai@nitttrbpl.ac.in) |
| 23 | **Re – run** | Learning and Instruction | 20Hrs | Bhopal | Dr.Kiran Saksena | 9039043279 | [ksaksena@nitttrbpl.ac.in](mailto:ksaksena@nitttrbpl.ac.in) |
| 24 | **Re – run** | Research in  Technical  Education | 20Hrs | Chandigarh | P K Tulsi | 9814810932 | pk\_tulsi@yahoo.com |
| 25 | **Re – run** | Quality Assurance in Engineering Education | 40Hrs | Chennai | Dr.E.S.M.Suresh | 94442844644 | [esmsuresh@gmail.com](mailto:esmsuresh@gmail.com) |
| 26 | **Re – run** | Redefining laboratory Instruction through Virtual laboratory | 20Hrs | Chennai | Dr. G. Janardhanan | 9445520968 | dr.gjanardhanan@gmail.com |
| 27 | **Re – run** | Academic and Research Report | 20Hrs | Kolkata | Dr. Samir Roy | 9230079496 | samir.cst@gmail.com  sroy@nitttrkol.ac.in |
| 28 | **Re – run** | Laboratory and Workshop Management | 20Hrs | Kolkata | Dr.Dipankar Bose | 03325266982  9831631887 | [dbose@nitttrkol.ac.in](mailto:dbose@nitttrkol.ac.in) |
| 29 | **Re – run** | E- Content Development | 40Hrs | Chennai | Dr. P. Malliga | 9380342066 | pm.nitttrc@gmail.com |

**Thank You**