

15.	Prof. Archana Tiwari	Professor, Civil Engineering	Member
16.	Dr. R. S. Jadon	Professor, MCA	Member
17.	Prof. Anil Kumar Dwivedi	Associate Professor, Civil Engineering	Member
18.	Prof. Rajendra Prasad Kori	Assistant Professor, Mechanical Engineering	Member

Prof. Praveen Bansal, SWAYAM Manager, Dr. Sunita Sharma, Dy. Controller (Exams), Dr. Sulochana Wadhvani, Professor, Electrical Engineering & OBE Manager, Dr. Pratesh Jayaswal, Professor, Mechanical Engineering & Registrar, Dr. R. Kansal, Professor (Civil Engineering) & Dean (Students Welfare), Dr. P. K. Singhal, Professor, Electronics Engineering & Controller Examination attended the meeting as **special invitees**.

The following deliberations took place in the meeting.

Item: AC-1	<p>To confirm the minutes of the last Academic Council Meeting held on 28th June, 2021.</p> <p>The compliance status of the key aspects approved in the previous academic council was discussed and apprised, as per the following</p> <ul style="list-style-type: none"> • Provisioning of Credits for “Novel Engaging Courses” (to promote Holistic Education and Informal Knowledge) in the scheme / curriculum, as per the recommendations of the National Education Policy (NEP) 2020. <p>As per the approval of the Council, the “Novel Engaging Courses” (to promote Holistic Education and Informal Knowledge) are the part of curriculum. The same was implemented for the batch admitted 2020-21 onwards with the offering of 33 courses/practices addressing different dimensions such as Science & Technology, Digital Technology, Societal context, Performing Arts, Physical Health, Health & Hygiene, Arts & Crafts, Language Skills, Home Science, Soft Skills and Application Software, under the mentorship of faculty members. The online registration process was conducted for registering the course under the supervision of Dean Students Welfare.</p> <ul style="list-style-type: none"> • Provision for different modes of teaching’ (methodology for teaching) in the scheme/curriculum, as per the nature of course, effective from the batch admitted 2020-21 onwards. <p>As approved by the house and in line with initiatives towards the implementation of National Education Policy 2020 in the institute, recommendation of UGC and to offer the choice and flexibility of “learning at their place with their own pace” by means of Learning & Teaching with the blending of different modes and activities, the provision of ‘different modes of teaching’ (methodology for teaching) in the scheme/curriculum has been done, with effect from the batch admitted 2020-21 onwards.</p> <p>The facilitated modes of teaching include the provision of offline/Black Board Teaching (i.e. in class / face-to-face) / Online / Blended Learning (Learning through Experimentation/Learning through demonstration/ Group Based Learning/ Activity Based Learning/Learning through projects), as per the nature of the course.</p> <ul style="list-style-type: none"> • Provision of “course proficiency” in the end semester examination to assess the skills /abilities
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/competencies and knowledge attained on a continuous basis

The “course proficiency” component was inducted in the scheme/curriculum with effect from the batch 2020-21 onwards, wherein the objective is to assess the ability/ skill/ competence level /knowledge level /expertise attained etc. in that particular course/subject. At present Three activities are being conducted / considered under the course proficiency part, namely: (i) Course end seminar and (ii) One-minute paper writing (iii) Outcome based on development of prototype/ product/research/paper publication aligned with the course. This is going to further improve and strengthen the continuous assessment mechanism.

- Inclusion of the “concept of skill” in the scheme/ curriculum through the provisioning of ‘Skill Based Mini Project’ component (with effect from the batch admitted 2020-21 onwards)

To promote the “skill development and creativity”, to facilitate “Project based Learning (PBL)” and to improve the employability rate, the concept of skill has been inducted in the scheme/curriculum through the provisioning of ‘Skill Based Mini Project’ in the Continuous Evaluation part of the practical slot with effect from the batch admitted 2020-21 onwards.

- Inclusion of ‘Mandatory Value Added Courses’ for the admitted batch 2020-21 onwards

As per the approval of the house and to comply with therecommendations of AICTE, the following “Mandatory Value Added Courses” have been included and are being offered at the UG level for the batch admitted 2020-21 onwards

Semester	Course	Duration (in Hrs.)
3 rd / 4 th	Biology for Engineers	30
3 rd / 4 th	Indian Constitution and Traditional Knowledge	30
5 th	Disaster Management	30
6 th	Intellectual Property Rights (IPR)	30

These Courses are necessary to inculcate a connect between the society and learning.

- Eligibility criteria for the award of Honours degree at UG level

As per the approval, the criteria of minimum 6.5 CGPA (up to VIII semester) and the duration of degree completion within the stipulated time period (i.e. 04 years only)for the award of B. Tech degree with Honors, has been implemented.

- Eligibility criteria for the award of degree with minor specialization at UG level

As per the approval, the criterion of “degree completion in the stipulated time period of four years only”, for the award of B. Tech degree with Minor Specialization has been implemented.

- Review of Recommendations by different Board of Studies (BoS) regarding the scheme/curriculum/courses for July-Dec. 2021 Semester.

As per the approval of the house, the scheme/curriculum and relating courses were offered

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	<p>during the July-December 2021 Semester.</p> <p><u>The minutes of the previous Academic Council meeting held on 28th June, 2021 were confirmed and efforts made towards implementation of the same were appreciated</u></p>
Item:AC-2	<p>To consider the proposal for starting the courses - UG Mechanical/Civil/Chemical/ Engineering with Minor Specialization in Computer Science and Engineering.</p> <p>It was discussed and concluded that the provision to offer the Minor Specialization is already in place and the same will be continued as per prevailing practice of the institute, as per the earlier approval of the Academic Council.</p>
Item: AC-3	<p>To consider the proposal for authorization to the Registrar of the institute as one of the signatory, in place of the Director, on the Examination Tabulation Registers (TRs) and Mark sheets, as part of decentralization and empowerment.</p> <p>As a part of decentralization and empowerment process in the institute, it was proposed to transfer the powers/ authorize the Registrar of the institute, to be signatory on the Examination Tabulation Registers (TRs) and Mark sheets in place of the Director of the institute. However, the same will be preceded with the approval of the Director on the note sheet which is to be put up by the controller examinations.</p> <p><u>The house approved the proposal</u></p>
Item: AC-4	<p>To consider the proposal regarding “not conferring the gold medal” for the batches (appeared in online mode examination) graduated during Covid-19 Pandemic period.</p> <p>It was discussed that during the Covid-19 Pandemic period, the teaching learning and examinations were conducted in online mode. Although the examinations were conducted with proctored mode arrangement, but can't be considered as usual scenario of the offline mode of examinations. In view of this it was proposed that no gold medals will be awarded for the passing out batches, falling under the aforementioned Covid -19 pandemic period. However, the department can give the certification of merit/rank on the basis of TR sheet / mark sheet issued by the examination section duly signed by the authorized officials.</p> <p><u>The house approved the proposal</u></p>
Item: AC-5	<p>To consider the proposal for the inclusion of courses: (i) Universal Human Values & Professional Ethics (HVPE) (ii) Economics, Entrepreneurship & Management, at UG Engineering level for the batch admitted in 2020-21 onwards.</p> <p>As per the requirement of AICTE and other regulatory bodies, to make the engineering students aware about the major context relating to “Universal Human Values & Professional Ethics (HVPE)” and “Economics, Entrepreneurship & Management”, it was proposed to include these courses suitably in the curriculum under the “Mandatory Audit Courses (MAC)”.</p> <p><u>The house approved the proposal, with the authorization to the Academic Development Cell of the institute for determining the level (semester/year) at which the course to be offered for</u></p>

UG Engineering, with effect from the Batch Admitted in the 2022-23.

Item: AC-6

To consider the proposal for imposing qualifying criteria for Mandatory Audit Courses (MACs) at UG Engineering level for the batch admitted in 2020-21 onwards.

It was discussed that, during the previous Academic Council meeting held on 28th June 2021, vide item no. AC-9, the Mandatory Audit Courses were approved with the arrangement that the end exam for such courses will be conducted by the examination section and grades will be shown on the mark sheet of the students.

In this connection, it was proposed to impose a 'mandatory to qualify' criteria for the courses under the "Mandatory Audit Course" category, so that students can take up these courses with more sincerity. The semester/year promotion will not be affected if a student fails to qualify in the courses under the "Mandatory Audit Courses" category. However, unless such students qualify in these MACs, they will not be considered eligible to get the UG degree. The examination section will ensure to award the grades (up to grade "D"), which will clearly indicate that whether "qualified" or "not qualified", as per the grading mechanism under practice in the institute.

The house approved the proposal

Item: AC-7

To ratify the conduction of institute level examination for case specific matters for the courses being offered under Departmental Electives through SWAYAM/NPTEL platform.

Considering the Covid -19 situation & post pandemic impact and the request submitted by the students mentioning their family circumstances /problems and their inability regarding the failure to participate in the registration process for Departmental Electives through SWAYAM/NPTEL platform, they have been provisionally allowed (subject to the final decision regarding the consideration) to appear in the institute level examination, conducted in December 2021. In this context, it was proposed to grant the one time permission to consider their institute level examination, in the career benefit of students and their employment concern, as some of them have already been placed with good companies.

The house has noted and approved

Item: AC-8

To discuss and propose complete processing of the Ph.D. programmes as per UGC norms, at the institute level under the academic autonomy granted by UGC and RGPV Bhopal.

It was discussed that, at present the institute is conducting only the PhD Course work examinations for all the candidates registered under the Ph.D programmes offered in various departments of the institute. Further, considering the fact that Autonomy granted to a college is at the institutional level and is not partial. Therefore, it was proposed that the complete processing of the Ph.D. programmes, from admission till the submission & evaluation of final thesis, viva-voce, can be conducted at the institute (MITS Research Centre) under the provisions of autonomy granted by the UGC and affiliating university (RGPV Bhopal)

The house has noted and approved the proposal, with the recommendation to raise the matter at the university level for relating authorization/permission.

ASV
Sant
MKP
P.K
V.H
Sri
Sudha
MB

Item:AC-9 **To consider the proposal regarding consideration of normalized marks of institute level examinations, against the SWAYAM / NPTEL examinations.**

The provision of institute level examination was made only for those who could not qualify the examination conducted by the SWAYAM/NPTEL agency. In order to maintain parity between the two examinations, it was proposed that the results of courses should be declared after normalization of marks with the marks obtained in corresponding courses in the proctored examination conducted by the course offering agency, i.e SWAYAM / NPTEL.

This practice will motivate students to appear in the proctored examination conducted by SWAYAM/NPTEL agency and the good performers will not be demotivated on account of other students sometimes scoring higher marks in the institute level examinations for the same course.

The house approved the proposal, with the directions that the suitable committee to be formed for the purpose

Item:AC-10 To review the minutes of the meeting /proceedings of the Board of Studies (BoS) of various departments/disciplines, held in the month of December 2021 through video conferencing.

The deliberation of Board of Studies (BoS) were presented by the HoDs/Chairpersons of the following departments:

[Civil, Mechanical, Electrical, Electronics, Computer Science & Engineering, Information Technology, Engineering Mathematics and Computing, Chemical Engineering, Architecture, Applied Sciences, Humanities, Management Studies].

The presentation covered the following Agenda points of the respective BoS:

Instructions for preparing BoS Proceedings

{All information is to be uploaded on the webpage under suitable heading (such as Board of Studies) and separate links to be provided for each category mentioned below}

1. Minutes should have a summary/cover page mentioning all the significant changes made in the following given format

Courses where revision was carried out*							
(Course/subject name)	Course Code	Year/Date of introduction	Year/Date of revision	Percentage of content added or replaced	Agenda Item No.	Page No.	Link of relevant documents/minutes

Courses focusing on employability/entrepreneurship/ skill development*					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes

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MHO

Sumit, *ASV*, *UHL*, *AKF*, *Son*, *P.K*, *WJ*, *Aravind*, *H.P.A*, *A*, *Amrinder*, *M*, *AS*, *A*, *A*, *A*

New Courses added*

(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes

Feedback on curriculum received from stakeholders: Analysis & ATR*

Stakeholder	Student	Faculty	Alumni	Employer
No. of responses				
Link of Analysis				
ATR Link				
Link showing Excel sheet of Google Form details of stakeholders				

* Separate page(s) for each of the above four points; Agenda point wise minutes to be appended with each point and a separate link to be given in the appropriate column for each point

2. The BoS minutes along with the cover/summary page (under point number 1, above) must be uploaded on the departmental web page and link for the same must be shared with the office of the Dean Academics.
3. Stakeholder feedback analysis must also contain an action taken report (ATR).
The details/data of the stakeholder responded through GOOGLE form (such as Name, organization, mail id, phone no if available) must also be shared along with the feedback for the alumni/employer.
4. The following must be uploaded on the departmental web page and link for the same must be shared with the office of the Dean Academics.
 - (i) The Stakeholder feedback collected & analyzed to find the index out of five
 - (ii) Action taken report
 - (iii) Google form showing responses from alumni, employer, student, faculty etc.
5. Minutes should have a footer with department name and page number, the page number.
6. Each page should be signed by all faculty, scanned and then submitted to the Dean Academics office.

BoS Agenda Items

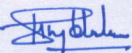
- Item 1** To propose the **scheme structure of VIII Semester** with the provision of Two Departmental Electives and one Open Category (OC) Course, **to be offered in online mode** with credit transfer for the batch admitted in 2018-19.

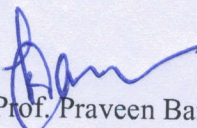
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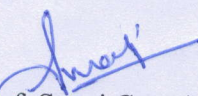
Item 2	To propose the list of courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in <i>online mode under Departmental Elective (DE) category</i> , for credit transfer in the <i>VIII Semester</i> under the flexible curriculum (<i>Batch admitted in 2018-19</i>)
Item 3	To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in <i>online mode from SWAYAM/NPTEL/MITS MOOCs/ other MOOC Platforms) under Open Category (OC) Courses</i> , for credit transfer in the <i>VIII Semester</i> under the flexible curriculum (<i>Batch admitted in 2018-19</i>)
Item 4	To propose the course and syllabi of MITSMOOC Course along with the Course Outcomes for credit transfer in the <i>VIII Semester</i> under the flexible curriculum (<i>Batch admitted in 2018-19</i>)
Item 5	To propose the list of "Additional Courses" which can be opted for getting an (i) <i>Honours (for students of the host department)</i> (ii) <i>Minor Specialization (for students of other departments)</i> <i>[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the VI semester (for the batch admitted in 2019-20) and for VIII semester students (for the batch admitted in 2018-19)]</i>
Item 6	To review and finalize the syllabi for all <i>Departmental Core (DC) Courses</i> of <i>VI Semester (for batches admitted in 2019-20)</i> under the flexible curriculum along with their COs
Item 7	To review and finalize the courses & syllabi to be offered (<i>for batches admitted in 2019-20</i>) under <i>Departmental Elective (DE) Courses</i> in the <i>VI Semester</i>
Item 8	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batches admitted in 2019-20</i>) in online mode under <i>Departmental Elective (DE) Courses</i> with credit transfer, in the <i>VI Semester</i>
Item 9	To review and finalize the courses & syllabi to be offered (<i>for batches admitted in 2019-20</i>) under the <i>Open Category (OC) Courses</i> (in traditional mode) for <i>VI semester</i> students of other departments along with their COs
Item 10	To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in VI semester (<i>for batches admitted in 2019-20</i>)
Item 11	To review and finalize the scheme and syllabi of <i>B. Tech. IV Semester (for batches admitted in 2020-21)</i> under the flexible curriculum along with their COs
Item 12	To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in IV (<i>for batch admitted in 2020-21</i>)
Item 13	To review and finalize the suggestive list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory courses to be offered in Jan - June 2022 semester during IV Semester (<i>for the batch admitted in 2020-21</i>).
Item 14	To ratify the <i>Scheme & Syllabi, list of experiments and skill based mini projects of First semester</i> of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session) <i>{Applicable for the concerned departments}</i>
Item 15	To ratify the <i>Scheme & Syllabi, list of experiments and skill based mini projects of First Semester B. Tech. programmes [admitted batch 2021-22 Session] (if any)</i>
Item 16	To prepare and recommend the <i>Scheme & Syllabi (along with the Course Outcomes) of II semester</i> of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session) <i>{Applicable for the concerned departments}</i>

Item 17	To prepare and recommend the list of experiments and skill based mini projects of <i>II semester of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}</i>
Item 18	To review and finalize the <i>Scheme & Syllabi (along with the Course Outcomes) of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i>
Item 19	To review and finalize the <i>list of experiments and skill based mini projects of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i>
Item 20	To propose the course “Economics Entrepreneurship & Management” and its syllabi along with the Course Outcomes (COs) for the V Semester B.Tech. (Batch admitted 2020-21 onwards). <i>{to be proposed and recommended by Management Department}</i>
Item 21	To revise and recommend the course “Energy, Environment, Ecology & Society” and its syllabi along with the Course Outcomes (COs) for the III Semester B.Tech. (Batch admitted 2021-22 onwards). <i>{inclusion of contents related to “Sustainability” is to be done}</i> <i>{to be proposed and recommended by the Civil Engineering Department}</i>
Item 22	To propose a new course: Universal Human Values & Professional Ethics (HVPE)& its syllabi along with the Course Outcomes (COs), as Mandatory Course (MC) for the batch admitted in 2020-21 onwards <i>{A portion on ‘gender sensitization’ also to be included in the syllabus of this course}</i> <i>{to be proposed and recommended by Humanities Department}</i>
Item 23	To review the CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for (i) I year April–September 2021 Semester (ii) January-June 2021 Session for II to IV year students
Item 24	To review curricula feedback from various stakeholders, its analysis and impact <i>{Stakeholder feedback analysis must also contain an action taken report (ATR) and the details/data of the stakeholder who have responded through GOOGLE form (such as Name, organization, mail id, phone no if available) must also be shared along with the feedback for the alumni/employer.}</i>
Item 25	To review Course Outcomes (COs) feedback of various courses, its analysis and impact
Item 26	Any other matter
<u>The house approved the minutes and recommendations made by different Board of Studies (BoS)</u>	
Item:AC-11	To report the percentage change of syllabus along with new courses introduced over the last five years (2017-2022) as per ANNEXURE-I. <u>The house noted the same.</u>

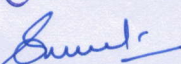
The meeting ended with the vote of thanks to the Chair.

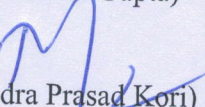

(Dr. Trilok Pratap Singh)


(Prof. Praveen Bansal)


(Prof. Swati Gupta)

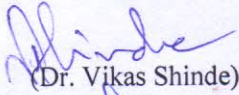

(Dr. Sanjeev Khanna)


(Dr. Sunita Sharma)


(Prof. Rajendra Prasad Kori)

Present

(Dr. Anjali S. Patil)


(Dr. Vikas Shinde)

(Dr. M.K. Gaur)

(Dr. Abhay Mishra)

(Prof. Archana Tiwari)

(Dr. Laxmi Srivastava)

Present (Virtual mode)

(Dr. Saroj Kaushik)
External Expert

(Shri. Prashant Mehta)
Member, BoG

(Dr. R. K. Pandit)
Director

(Dr. Laxmi Shrivastava)

(Dr. Manish Dixit)

(Dr. Pratesh Jayaswal)

(Dr. R.S. Jadon)

(Dr. M. K. Trivedi)

(Dr. Manjaree Pandit)
Dean Academics

Present (Virtual mode)

(Dr. Rommel Mehta)
External Expert

(Er. Ramesh Agarwal)
Member, BoG

(Prof. Anil Kumar Dwivedi)

(Dr. Akhilesh Tiwari)
Member Secretary

(Dr. Sulochana Wadhvani)

(Dr. P.K. Singhal)

(Dr. R. Kansal)

Present (Virtual mode)

(Prof. Mohan Sen)
External Expert

Summary of Percentage Change of Syllabus along with New Courses Introduced

New Courses Introduced					
Year	2021-22	2020-21	2019-20	2018-19	2017-18
New Courses	88	198	51	54	101
Page Numbers	1-5	5-15	15-17	17-21	21-26

Percentage revision of all programmes			
S.No.	Program Code	Department Name	Percentage of Syllabus Revision
1.	3010	B.Tech in Civil Engineering	27.69
2.	7048	M.E. in Construction Technology & Management	76.47
3.	7061	M.Tech in Environmental Engineering	64.70
4.	3018	B.Tech in Electronics Engineering(EC)	30.64
5.	3020	B.Tech in Electronics & Telecommunication Engineering(ET)	30.64
6.	7038	M.E in Communication, Control & Networking	84.21
7.	3031	B.Tech. Mechanical Engineering	25.43
8.	3005	B.Tech. Automobile Engineering	25.03
9.	7032	M.Tech. Production Technology	47.06
10.	3029	B. Tech Information Technology	32.17
11.	7030	M. Tech Information Technology	58.82
12.	9711	B. Tech Internet of Things (IoT)	45.00
13.	9702	B. Tech Information Technology (Artificial Intelligence and Robotics)	46.67
14.	9701	B. Tech Artificial Intelligence and Data Science	21.67
15.	9704	B. Tech Artificial Intelligence and Machine Learning	23.33
16.	3008	B Tech. Chemical Engg.	35.93
17.	3013	B.Tech Computer Science and Engineering	39.44
18.	23462	B.Tech Computer Science and Design	21.43
19.	6001	Masters in Computer Applications	83.33
20.	7023	M.Tech Computer Science and Engineering	45.83
21.	6002	B.Arch.	26.27
22.	6005	Masters in Urban Planning	28.57
23.	9627	B. Tech. In Mathematics and Computing	51.61
24.	3017	B.Tech. in Electrical Engineering	27.42
25.	9710	B.Tech Internet of Things	25.42
26.	7123	M.E in Industrial Systems Drives	68.42
27.	7002	Masters of Business Administration	35.12

List of new courses introduced over the last five years (2017-22)

S.No.	Name of the Course	Course Code	Department	Year of introduction
1.	Construction Materials, Machines & Techniques	510121	Civil Engineering	2021
2.	Building Services & Maintenance	900120	Civil Engineering	2021
3.	Sustainable Materials & Green Building	900121	Civil Engineering	2021
4.	Wastewater Treatment & recycling	110754	Civil Engineering	2021
5.	Introduction to Multimodal Urban Transportation Systems	110755	Civil Engineering	2021
6.	Infrastructure Planning & Management	110756	Civil Engineering	2021
7.	Urban Governance & Development Management	800308	Civil Engineering	2021
8.	Trace & Ultra Trace Analysis of Metals using Atomic Absorption Spectrometry	800309	Civil Engineering	2021
9.	Civil Engineering Drawing Lab	110415	Civil Engineering	2021
10.	Concrete Technology	110654	Civil Engineering	2021
11.	Air Pollution & Control	110655	Civil Engineering	2021
12.	Environmental Impact Assessment	110855	Civil Engineering	2021
13.	Rock Engineering	110856	Civil Engineering	2021
14.	Strategies for Sustainable Design	110857	Civil Engineering	2021
15.	Scientific Computing Using Matlab	110858	Civil Engineering	2021
16.	Air Pollution & Control	900629	Civil Engineering	2021
17.	Rural Water Resources Management	900630	Civil Engineering	2021
18.	Strategies for Sustainable Design	510218	Civil Engineering	2021
19.	Strategies for Sustainable Design	530216	Civil Engineering	2021
20.	Analog Integrated Circuit	140412/2004 12	Electronics Engineering	2021

21.	Satellite and Radar Communication Systems	140711/2007 11	Electronics Engineering	2021
22.	VLSI Design	140713/2007 13	Electronics Engineering	2021
23.	Digital Image Processing	140751/2007 51	Electronics Engineering	2021
24.	Introduction to Wireless Cellular Communication	140752/2007 52	Electronics Engineering	2021
25.	Satellite System	900206	Electronics Engineering	2021
26.	Consumer Electronics	900207	Electronics Engineering	2021
27.	MEMS and Mechatronics	900218	Electronics Engineering	2021
28.	Multimedia Communication	900219	Electronics Engineering	2021
29.	Data Mining & Predictive Modelling	160714	Information Technology	2021
30.	Design and Thinking Lab	230305	Information Technology	2021
31.	Python Programming Lab	240305	Information Technology	2021
32.	Introduction to Artificial Intelligence and Data Science	270101	Information Technology	2021
33.	Introduction to Artificial Intelligence and Machine Learning	280101	Information Technology	2021
34.	Blockchain and its Applications	160854	Information Technology	2021
35.	Robotics & vision control	900119	Information Technology	2021
36.	Computer Architecture and Microprocessor	230401	Information Technology	2021
37.	IoT Architecture and Protocols	230404	Information Technology	2021
38.	Machine Learning and Optimization	240404	Information Technology	2021
39.	Computer Programming	160122	Information Technology	2021
40.	Analytics using R programming	900227	Information Technology	2021
41.	Data Science in IoT	230502	Information Technology	2021

42.	Soft Computing Techniques	230505	Information Technology	2021
43.	Data Science using python	240502	Information Technology	2021
44.	Introduction to Artificial Intelligence and Machine Learning	280121	Information Technology	2021
45.	Physico chemical processes for waste water treatment	170854	Information Technology	2021
46.	Chemical Process utilities	170855	Chemical Engineering	2021
47.	Electrochemical Technology in pollution control	900624	Chemical Engineering	2021
48.	Environmental quality monitoring and analysis	900623	Chemical Engineering	2021
49.	Heterogeneous reaction system	170615	Chemical Engineering	2021
50.	Physical and electrochemical characterization in chemical engineer	170654	Chemical Engineering	2021
51.	Principle and practice of process equipment and plant design	170755	Chemical Engineering	2021
52.	Disaster Management	1000006	Chemical Engineering	2021
53.	Ethical Hacking	150854	Computer Science Engineering	2021
54.	Hardware Security	150855	Computer Science Engineering	2021
55.	Blockchain and its Application	150856	Computer Science Engineering	2021
56.	Online Privacy	150857	Computer Science Engineering	2021
57.	Ethical Hacking(OC-4)	900627	Computer Science Engineering	2021
58.	Online Privacy(OC-4)	900628	Computer Science Engineering	2021
59.	Internship / Project	150801	Computer Science Engineering	2021

60.	Professional Development	150802	Computer Science Engineering	2021
61.	Programming Lab Python Programming	150415	Computer Science Engineering	2021
62.	Computer Hardware and Troubleshooting Lab	150315	Architecture	2021
63.	Elective II Culturally Responsive Built Environments (SWAYAM)	210551	Architecture	2021
64.	Elective II Regionally Responsive Architecture(SWAYAM)	210514	Architecture	2021
65.	Elective II Space Architecture Design(SWAYAM)	210515	Architecture	2021
66.	Elective IV Strategies for sustainable Design (SWAYAM)	210615	Architecture	2021
67.	Elective IV Environmental Impact Assessment (SWAYAM)	210616	Architecture	2021
68.	Elective V- Glass in buildings: Design and Applications (SWAYAM)	210754	Architecture	2021
69.	Elective VI Sustainable Interventions in Historic Buildings (SWAYAM)	210814	Architecture	2021
70.	Elective VI Environment and Architecture (SWAYAM)	210815	Architecture	2021
71.	Environmentl Impact and assessment (Elective VII) (SWAYAM)	2101011	Architecture	2021
72.	BIM(COURSERA)	2101013	Architecture	2021
73.	GIS(COURSERA)	210102	Architecture	2021
74.	Google UX	210104	Architecture	2021
75.	Fundamentals of Theoretical and Experimental Aerodynamics	190854	Mechanical Engineering	2021
76.	Experimental stress Analysis	190855	Mechanical Engineering	2021
77.	Applied Ergonomics	190856	Mechanical Engineering	2021
78.	Introduction to soft Matter	190857	Mechanical Engineering	2021
79.	Sound and structural vibration	120854	Mechanical Engineering	2021
80.	Carbon Material and Manufacturing	120855	Mechanical Engineering	2021
81.	Introduction to Abrasive Machining and Finishing Processes	120856	Mechanical Engineering	2021

82.	Automation in Manufacturing	800310	Mechanical Engineering	2021
83.	Electrical and Electronic Measurement	130312	Electrical Engineering	2021
84.	IoT in Microgrid	900216	Electrical Engineering	2021
85.	Electric Vehicle	900217	Electrical Engineering	2021
86.	Programming with Python	130414	Electrical Engineering	2021
87.	Renewable Energy Lab	130415	Electrical Engineering	2021
88.	Power System Dynamics, Control and Monitoring	130855	Electrical Engineering	2021
89.	Environmental Engineering	110509	Civil Engineering	2020
90.	Matrix Methods of Structural Analysis	110751	Civil Engineering	2020
91.	Advanced Concrete Technology	110752	Civil Engineering	2020
92.	Remote Sensing & GIS	110753	Civil Engineering	2020
93.	Integrated Waste Management for Smart City	900201	Civil Engineering	2020
94.	Project Planning & Control	900202	Civil Engineering	2020
95.	Urban Planning & Transportation Systems	900213	Civil Engineering	2020
96.	Software Application for Solving Civil Engineering Problems	110701	Civil Engineering	2020
97.	Creative Problem Solving	110703	Civil Engineering	2020
98.	Computational Techniques	510111	Civil Engineering	2020
99.	Construction Materials & Machines	510112	Civil Engineering	2020
100.	Maintenance Management	510114	Civil Engineering	2020
101.	Infrastructure Development	510115	Civil Engineering	2020
102.	Formwork for Concrete Structures	510116	Civil Engineering	2020
103.	Organizational Behaviour & Management	800108	Civil Engineering	2020
104.	Safety & Quality Management	800109	Civil Engineering	2020

105.	Construction Lab	510119	Civil Engineering	2020
106.	Solid & Hazardous Waste Management	530112	Civil Engineering	2020
107.	Industrial Waste Management	530114	Civil Engineering	2020
108.	Environmental Auditing & Management System	530115	Civil Engineering	2020
109.	Environmental Hydraulics	530116	Civil Engineering	2020
110.	Sustainable Waste Management System	800110	Civil Engineering	2020
111.	Environmental Engineering Lab	530118	Civil Engineering	2020
112.	Basic Civil Engineering Lab	100026	Civil Engineering	2020
113.	Railway, Airport & Tunnel Engineering	110614	Civil Engineering	2020
114.	Numerical Methods in Engineering	900117	Civil Engineering	2020
115.	Maintenance Management	900118	Civil Engineering	2020
116.	Safety in Construction	110851	Civil Engineering	2020
117.	Introduction to Accounting & Finance for Civil Engineering Engineers	110852	Civil Engineering	2020
118.	Water Supply Engineering	110853	Civil Engineering	2020
119.	Natural Hazards (Deptt Elective Course)	110854	Civil Engineering	2020
120.	Natural Hazards (Open Category Course)	900614	Civil Engineering	2020
121.	Plastic Waste Management	900615	Civil Engineering	2020
122.	Remote Sensing: Principles & Applications	900617	Civil Engineering	2020
123.	Internship / Project	110801	Civil Engineering	2020
124.	Professional Development	110802	Civil Engineering	2020
125.	Project Economics & Financing	510211	Civil Engineering	2020
126.	Construction Project Management	510213	Civil Engineering	2020

127.	Safety in Construction	510217	Civil Engineering	2020
128.	Sustainable Materials & Green Building	800208	Civil Engineering	2020
129.	Computational Laboratory for Construction Management	510219	Civil Engineering	2020
130.	Plastic Waste Management	530214	Civil Engineering	2020
131.	Global Climatic Changes & Disaster Management	800209	Civil Engineering	2020
132.	Advanced Environmental Engineering Lab	530217	Civil Engineering	2020
133.	Electronics Devices	140211	Electronics Engineering	2020
134.	Engineering Materials	200212	Electronics Engineering	2020
135.	EEES (Energy Ecology Environment & Society)	100015	Electronics Engineering	2020
136.	Practical Machine Learning with Tensorflow	160751	Information Technology	2020
137.	Scalable Data Science	160752	Information Technology	2020
138.	IoT Lab	160701	Information Technology	2020
139.	Introduction to Computer Programming	230102	Information Technology	2020
140.	IT workshop	160111	Information Technology	2020
141.	Soft Computing	900208	Information Technology	2020

142.	R Programming	900220	Information Technology	2020
143.	Artificial Intelligence	900221	Information Technology	2020
144.	Introduction to Internet of Things (IoT)	230101	Information Technology	2020
145.	Introduction to Artificial Intelligence	240101	Information Technology	2020
146.	High-speed Networks	630113	Information Technology	2020
147.	Mobile Computing & M-Commerce	630114	Information Technology	2020
148.	Adhoc & Sensor Based Networks	630115	Information Technology	2020
149.	Information Security & Systems	630116	Information Technology	2020
150.	Soft Computing	800105	Information Technology	2020
151.	Blockchain Technology	800106	Information Technology	2020
152.	Lab-I (IoT Lab)	630118	Information Technology	2020
153.	Artificial Intelligence: Knowledge Representation And Reasoning	160654	Information Technology	2020
154.	Social Networks	160851	Information Technology	2020
155.	Privacy and Security in Online Social Media	160852/900618	Information Technology	2020
156.	Introduction to internet of things	900619	Information Technology	2020
157.	Data Science for Engineers	900620	Information Technology	2020
158.	Social Networks	900621	Information Technology	2020
159.	Data Mining & Warehousing	900116	Information Technology	2020
160.	Digital Logic Design	230201	Information Technology	2020
161.	Advanced Topics in Data Mining & Warehousing	630212	Information Technology	2020
162.	Data Science for Engineers	630214	Information Technology	2020
163.	Privacy and Security in Online Social Media	630215	Information Technology	2020

164.	Cloud Computing and Distributed System	630216	Information Technology	2020
165.	Introduction to Internet of Things	800206	Information Technology	2020
166.	Equilibrium Stage Operation	170711	Chemical Engineering	2020
167.	Industrial Pollution prevention and Control	170713	Chemical Engineering	2020
168.	Petrochemical Technology	170714	Chemical Engineering	2020
169.	Petroleum Processing Technology	900211	Chemical Engineering	2020
170.	Industrial safety and hazards	900223	Chemical Engineering	2020
171.	Optimization in chemical engineering	170851	Chemical Engineering	2020
172.	Plant Design and economics	170751	Chemical Engineering	2020
173.	Chemical Process Safety	170752	Chemical Engineering	2020
174.	Numerical Methods for Engineer's	170753	Chemical Engineering	2020
175.	Waste to Energy conversion	170852	Chemical Engineering	2020
176.	Biomass conversion and biorefinery	170853	Chemical Engineering	2020
177.	Social Networks(DE)	150851	Computer Science Engineering	2020
178.	Real Time Operating system(DE)	150852	Computer Science Engineering	2020
179.	Reinforcement Learning(DE)	150853	Computer Science Engineering	2020
180.	Intellectual Property right	100008	Computer Science Engineering	2020
181.	Summer internship Project-III	150702	Computer Science Engineering	2020
182.	Creative Problem Solving	150703	Computer Science Engineering	2020

183.	Data Mining & Warehousing(DE)	150712	Computer Science Engineering	2020
184.	Practical Machine Learning with tensorflow(DE*)	150751	Computer Science Engineering	2020
185.	Scalable Data Science (DE*)	150752	Computer Science Engineering	2020
186.	Network Security (oc)	900209	Computer Science Engineering	2020
187.	Data Mining & Warehousing (oc)	900210	Computer Science Engineering	2020
188.	Computer Network(oc)	900222	Computer Science Engineering	2020
189.	IT Workshop	150111	Computer Science Engineering	2020
190.	Introduction to Computer Science and Design	290101	Computer Science Engineering	2020
191.	Introduction to Computer Programming	290102	Computer Science Engineering	2020
192.	Algorithms Design Techniques and Analysis	620211	Computer Science Engineering	2020
193.	Advanced Topics in Data Mining & Warehousing	620212	Computer Science Engineering	2020
194.	Image Processing and Retrieval Techniques	620123	Computer Science Engineering	2020
195.	Internet of Things	620214	Computer Science Engineering	2020
196.	Deep Learning	620215	Computer Science Engineering	2020
197.	Cloud Computing	620216	Computer Science Engineering	2020

198.	Social Networking	620217	Computer Science Engineering	2020
199.	Lab-II	620221	Computer Science Engineering	2020
200.	Self Learning/ Presentation	620222	Computer Science Engineering	2020
201.	Distributed Computing	620112	Computer Science Engineering	2020
202.	High Speed Networks	620113	Computer Science Engineering	2020
203.	Adhoc and Sensor Based Networks	620115	Computer Science Engineering	2020
204.	Computer Architecture and Parallel Processing	620117	Computer Science Engineering	2020
205.	Soft Computing	620118	Computer Science Engineering	2020
206.	Blockchain Technology	620119	Computer Science Engineering	2020
207.	Machine Learning using Python	620120	Computer Science Engineering	2020
208.	Mathematical Foundations	680111	Computer Science Engineering	2020
209.	Management Functions and Oral & Written Communication	680115	Computer Science Engineering	2020
210.	Lab – I (Object Oriented Programming Lab)	680116	Computer Science Engineering	2020
211.	Lab – II (DBMS Lab)	680117	Computer Science Engineering	2020
212.	Computer Graphics & Multimedia	680215 (DE-I)	Computer Science Engineering	2020

213.	Corporate Planning	680219 (DE-II (BM))	Computer Science Engineering	2020
214.	Java Programming Lab	680223 (DLC-3)	Computer Science Engineering	2020
215.	Business Programming Laboratory	680224 (DLC-4)	Computer Science Engineering	2020
216.	Artificial Intelligence and Applications	680311	Computer Science Engineering	2020
217.	Management Support Systems	680312	Computer Science Engineering	2020
218.	Lab-V (Python Programming Lab)	680323	Computer Science Engineering	2020
219.	Visual Communication Design for Digital Media (Elective IV)(SWAYAM)	210508	Architecture Planning	2020
220.	Structural System in Architecture (Elective V)	210751	Architecture Planning	2020
221.	Elective V-Urban Landuse and transportation planning (SWAYAM)	210752	Architecture Planning	2020
222.	Elective V-Urban governance and Development Management (UGDM) (SWAYAM)	210753	Architecture Planning	2020
223.	Elective V- Glass in buildings: Design and Applications (SWAYAM)	210754	Architecture Planning	2020
224.	Mini Project	130111	Electrical Engineering	2020
225.	Renewable Energy Systems	130712	Electrical Engineering	2020
226.	IoT in Microgrid	130713	Electrical Engineering	2020
227.	Intelligent Sensors and Instrumentation	130714	Electrical Engineering	2020
228.	Control Systems Lab	130701	Electrical Engineering	2020
229.	Summer Internship Project -III	130702	Electrical Engineering	2020
230.	Creative Problem Solving lab	130703	Electrical Engineering	2020

231.	Introduction to Smart Grid	130751	Electrical Engineering	2020
232.	Advances in UHV Transmission & Distribution	130752	Electrical Engineering	2020
233.	Electrical Distribution System Analysis	130753	Electrical Engineering	2020
234.	Electrical Equipment and Machines: Finite Element Analysis	130754	Electrical Engineering	2020
235.	Applications of Electrical Equipment & Motors	900205	Electrical Engineering	2020
236.	IoT in Microgrid	900216	Electrical Engineering	2020
237.	Electric Vehicle	900217	Electrical Engineering	2020
238.	Reliability and Vibration Lab	120701	Mechanical Engineering	2020
239.	Summer Internship Project-III	120702/190702	Mechanical Engineering	2020
240.	Creative problem solving	120703/190703	Mechanical Engineering	2020
241.	Basic of Finite Element Analysis	120712	Mechanical Engineering	2020
242.	Foundation of Computational Fluid Dynamics	120751	Mechanical Engineering	2020
243.	Introduction to Composites	120752	Mechanical Engineering	2020
244.	Advanced Machining Processes	120753	Mechanical Engineering	2020
245.	Industrial Safety Engineering	120754	Mechanical Engineering	2020
246.	Automotive Maintenance Lab	190701	Mechanical Engineering	2020
247.	Farm Machinery	190751	Mechanical Engineering	2020
248.	Mechanism and Robot Kinematics	190752	Mechanical Engineering	2020
249.	Introduction to Mechanical Vibration	190753	Mechanical Engineering	2020
250.	Industrial Safety Engineering	190754	Mechanical Engineering	2020
251.	Industrial Automation	900203	Mechanical Engineering	2020
252.	Solar Energy	900204	Mechanical Engineering	2020

253.	Engineering Materials for Industrial Applications	900214	Mechanical Engineering	2020
254.	Maintenance Engineering	900215	Mechanical Engineering	2020
255.	Professional Development	120802/190802	Mechanical Engineering	2020
256.	Quality Design and Control	120851	Mechanical Engineering	2020
257.	Robotics: Basics and Selected Advanced Concepts	120852	Mechanical Engineering	2020
258.	Steam and Gas Power Systems	120853	Mechanical Engineering	2020
259.	Waste to Energy Conversion	900605	Mechanical Engineering	2020
260.	Product Design and Manufacturing	900609	Mechanical Engineering	2020
261.	Automatic Control	900610	Mechanical Engineering	2020
262.	Mechatronics	900611	Mechanical Engineering	2020
263.	Elements of Solar Energy Conversion	900612	Mechanical Engineering	2020
264.	Traditional and Non-Traditional Optimization Tools	900613	Mechanical Engineering	2020
265.	Internship/Project	120801/190801	Mechanical Engineering	2020
266.	Wheeled Mobile Robots	190851	Mechanical Engineering	2020
267.	Steam and Gas Power Systems	190852	Mechanical Engineering	2020
268.	Viscous Fluid Flow	120654	Mechanical Engineering	2020
269.	Quality Design and Control	560214	Mechanical Engineering	2020
270.	Traditional and Non-Traditional Optimization Tools	560215	Mechanical Engineering	2020
271.	Product Design and Manufacturing	560216	Mechanical Engineering	2020
272.	Material characterization	560217	Mechanical Engineering	2020
273.	Generative Design for Additive Manufacturing	560218	Mechanical Engineering	2020
274.	Introduction to Operations Management	800210	Mechanical Engineering	2020

275.	Product Design & Development	800111	Mechanical Engineering	2020
276.	Tools in Scientific Computing	800211	Mechanical Engineering	2020
277.	Nature and properties of materials	120656/9006 31/190655	Mechanical Engineering	2020
278.	Solar PV System: Design and Economics	130614	Electrical Engineering	2020
279.	Biomedical Instrumentation	900115	Electrical Engineering	2020
280.	Introduction to Internet of Things	130851	Electrical Engineering	2020
281.	Waste to Energy Conversion	130852/9006 05	Electrical Engineering	2020
282.	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	130853/9006 07	Electrical Engineering	2020
283.	Fuzzy Logic and Neural Networks	900302	Electrical Engineering	2020
284.	Non Conventional Energy Resources	900608	Electrical Engineering	2020
285.	Internship/Project	130801	Electrical Engineering	2020
286.	Professional Development	130802	Electrical Engineering	2020
287.	Estimating, Costing & Contracting	110501	Civil Engineering	2019
288.	Minor Project - I	110506	Civil Engineering	2019
289.	Summer Internship Project - II	110507	Civil Engineering	2019
290.	Water Resources Engineering	110406	Civil Engineering	2019
291.	Solid Waste Management	110612	Civil Engineering	2019
292.	Maintenance & Repair of Concrete Structures	110651	Civil Engineering	2019
293.	Geotechnical Engineering - II (Foundation Engineering)	110652	Civil Engineering	2019
294.	Energy Efficiency, Accoustics & Day lighting in building	110653	Civil Engineering	2019
295.	Disaster Management	100007	Civil Engineering	2019
296.	Minor Project - II	110607	Civil Engineering	2019

297.	Neural Network and Fuzzy Systems	ELL804/BET L804	Electronics Engineering	2019
298.	Advanced Power Electronics & Control	EC0620H1	Electronics Engineering	2019
299.	Integrated Circuits, MOSFETs, Op- Amps and their Application	EC0620H2	Electronics Engineering	2019
300.	High Power Multilevel Converter	EC0620M1	Electronics Engineering	2019
301.	Intelligent Control	900104	Electronics Engineering	2019
302.	Embedded Systems	900105	Electronics Engineering	2019
303.	Optical Communication	140611/2006 11	Electronics Engineering	2019
304.	Antenna and Wave Propagation	140612/2006 12	Electronics Engineering	2019
305.	Telecom Switching and Networks	140613/2006 13	Electronics Engineering	2019
306.	Spread Spectrum Communications and Jamming	140651/2006 51	Electronics Engineering	2019
307.	Digital IC Design	140652/2006 52	Electronics Engineering	2019
308.	Fuzzy Sets, Logic and Systems & Application	140653/2006 53	Electronics Engineering	2019
309.	Data Analytics with Python	160651	Information Technology	2019
310.	Introduction to Machine Learning	160652	Information Technology	2019
311.	Programming Lab	160405/1604 14	Information Technology	2019
312.	Fuels & Combustion	900109	Chemical Engineering	2019
313.	Nano Technology	900110	Chemical Engineering	2019
314.	Network and Web Security (DE)	150611	Information Technology	2019
315.	Image Processing (DE)	150612	Information Technology	2019
316.	Data Analytics with Python (DE*)	150651	Information Technology	2019

317.	Introduction to Machine Learning (DE*)	150652	Information Technology	2019
318.	Python Programming	900107	Information Technology	2019
319.	Minor Project-I	150505	Computer Science Engineering	2019
320.	Summer interenship Project-II(Evaluation)	150506	Computer Science Engineering	2019
321.	Self Study Seminar (SWAYAM) (Sustainable Archtiecture)	210506	Architecture Planning	2019
322.	Power Plant Engineering	120651	Mechanical Engineering	2019
323.	Fundamental of Welding Science and Technology	120652	Mechanical Engineering	2019
324.	Gear and Gear unit Design: Theory and Practice	120653	Mechanical Engineering	2019
325.	Properties of Materials (Nature and Properties of Material: III)	120655	Mechanical Engineering	2019
326.	Fundamental of combustion for propulsion	190651	Mechanical Engineering	2019
327.	Robotics and Control: Theory and Practice	190652	Mechanical Engineering	2019
328.	Fundamental of Automotive System	190653	Mechanical Engineering	2019
329.	Robotics	900101	Mechanical Engineering	2019
330.	Product Design	900102	Mechanical Engineering	2019
331.	Summer Internship Project -II	130506	Electrical Engineering	2019
332.	Industrial Automation	130612	Electrical Engineering	2019
333.	Transducers & Sensors	130613	Electrical Engineering	2019
334.	Non Conventional Energy Resources	130651	Electrical Engineering	2019
335.	DC Power Transmission Systems	130652	Electrical Engineering	2019
336.	Fuzzy Logic and Neural Networks	130653	Electrical Engineering	2019
337.	Energy Conservation & Management	900103	Electrical Engineering	2019
338.	Building Planning & Design	110302	Civil Engineering	2018

339.	Software Lab	110306	Civil Engineering	2018
340.	Summer Internship Project - I	110308	Civil Engineering	2018
341.	Railway, Bridge & Tunnel Engineering	BCEL704	Civil Engineering	2018
342.	Geotechnical Engineering	110402	Civil Engineering	2018
343.	Survey Practice Lab	110407	Civil Engineering	2018
344.	Electronic System Design	BETL604/BE LL604	Electronics Engineering	2018
345.	Data Structure	BELL609/BE TL609	Electronics Engineering	2018
346.	Integrated Circuit	BELL610/BE TL610	Electronics Engineering	2018
347.	Microcontroller and Embedded System	BELL611/BE TL611	Electronics Engineering	2018
348.	Neural Network and Fuzzy Systems	ELL804/BET L804	Electronics Engineering	2018
349.	Image Processing and Pattern Recognition	ELL808/BET L808	Electronics Engineering	2018
350.	Nanotechnology	ELL809/BET L809	Electronics Engineering	2018
351.	Biomedical Instrumentation	ELL810/BET L810	Electronics Engineering	2018
352.	Cyber Security	100004	Information Technology	2018
353.	Multiphase flow	BCHL704	Chemical Engineering	2018
354.	Process Piping Design	BCHL705	Chemical Engineering	2018
355.	Environmental Engineering(DE-6)	BCHL804	Chemical Engineering	2018
356.	Environmental Engineering Lab	BCHP806	Chemical Engineering	2018
357.	Chemical Synthesis Lab	170306	Chemical Engineering	2018
358.	Process Control Lab	170407	Chemical Engineering	2018

359.	Image Processing	BCSL 801	Computer Science Engineering	2018
360.	Data Warehouse and Data Mining	BCSL 802	Computer Science Engineering	2018
361.	Neural Networks & Fuzzy Systems	BCSL 803	Computer Science Engineering	2018
362.	Internet of Things and Application	BCSL 804	Computer Science Engineering	2018
363.	Major Project-II	BCSD 805	Computer Science Engineering	2018
364.	Artificial Intelligence and Expert Systems	BCSL 701	Computer Science Engineering	2018
365.	Distributed Systems	BCSL 702	Computer Science Engineering	2018
366.	Digital Forensics	BCSL 703	Computer Science Engineering	2018
367.	Adhoc Networks	BCSL 704	Computer Science Engineering	2018
368.	E-Commerce	BCSL 705	Computer Science Engineering	2018
369.	Grid Computing	BCSL 709	Computer Science Engineering	2018
370.	Natural Language Processing	BCSL 710	Computer Science Engineering	2018
371.	Software Testing and Quality Assurance	BCSL 711	Computer Science Engineering	2018
372.	Agile Methodology	BCSL 712	Computer Science Engineering	2018
373.	Programming Lab	150405	Computer Science Engineering	2018

374.	Object Oriented Programming and Methodology	150304	Computer Science Engineering	2018
375.	Hardware lab	150305	Computer Science Engineering	2018
376.	Self Learning/ Presentation(SWAYAM/ NPTEL/MOOC)	150306	Computer Science Engineering	2018
377.	Image Processing and Retrieval Techniques	620301	Computer Science Engineering	2018
378.	Network Security	620302	Computer Science Engineering	2018
379.	Elective-II (Vastu)	AR606	Architecture Planning	2018
380.	Elective-IV(Product Design)	AR804	Architecture Planning	2018
381.	Gas Dynamics	BMEL-705(ii)	Mechanical Engineering	2018
382.	Material Handling systems and Equipment	BMEL-705(iii)	Mechanical Engineering	2018
383.	Off Road Vehicles	BAUL-705(iii)	Mechanical Engineering	2018
384.	Advance Welding Technology	BMEL-804(ii)/BAU L-804 (ii)	Mechanical Engineering	2018
385.	Optimization Techniques	BMEL-804(iii)	Mechanical Engineering	2018
386.	Maintenance Engineering	BMEL-804(iv)/BAU L-804 (iv)	Mechanical Engineering	2018
387.	Project Management	BMEL-804(v)/BAU L 804 (v)	Mechanical Engineering	2018
388.	Tyre Technology	BAUL-804(iv)	Mechanical Engineering	2018
389.	Quality Assurance	BAUL-804(v)	Mechanical Engineering	2018

390.	Power System Economics	BEEL704 A	Electrical Engineering	2018
391.	Electrical Industrial Safety & Maintenance	BEEP806	Electrical Engineering	2018
392.	Basic Civil Engineering Engineering & Mechanics	100205	Civil Engineering	2017
393.	Construction Planning & Management	BCEL501	Civil Engineering	2017
394.	Traffic Engineering	BCEL502	Civil Engineering	2017
395.	Civil Engineering lab	BCEP507	Civil Engineering	2017
396.	Solid Waste, Air & Noise Pollution	BCEL602	Civil Engineering	2017
397.	Environmental Impact Assessment & Ethics	BCEL603	Civil Engineering	2017
398.	Optimization techniques	BETL509/BE LL509	Electronics Engineering	2017
399.	Renewable energy resources	BETL510/BE LL510	Electronics Engineering	2017
400.	Mechatronics	BETL511/BE LL511	Electronics Engineering	2017
401.	ATM Networks	ELL705/BET L705	Electronics Engineering	2017
402.	Selected Topics in Communication	ELL709/BET L709	Electronics Engineering	2017
403.	CMOS Technology	ELL710/BET L710	Electronics Engineering	2017
404.	Data Mining and Warehousing	ELL711/BET L711	Electronics Engineering	2017
405.	Electromagnetic Fields	BETL503/BE LL503	Electronics Engineering	2017
406.	Basic Computer Engineering	100203	Information Technology	2017
407.	Software Engineering	900108	Information Technology	2017
408.	Network Security	900209	Information Technology	2017
409.	Fluidization engineering	BCHL501	Chemical Engineering	2017

410.	Nano technology	BCHL502	Chemical Engineering	2017
411.	Chemical Technology Lab	BCHP507	Chemical Engineering	2017
412.	Polymer Technology	BCHL603	Chemical Engineering	2017
413.	Parallel Processing(E-II)	BCSL601	Computer Science Engineering	2017
414.	Information Theory & Coding (E-II)	BCSL609	Computer Science Engineering	2017
415.	Cloud Computing (E-II)	BCSL610	Computer Science Engineering	2017
416.	Mobile Computing	BCSL602	Computer Science Engineering	2017
417.	Software Project Management	BCSL603	Computer Science Engineering	2017
418.	Network & web Security	BCSL605	Computer Science Engineering	2017
419.	Minor Project	BCSP606	Computer Science Engineering	2017
420.	Self Study	BCSS607	Computer Science Engineering	2017
421.	Seminar/ Group Discussion	BCSS608	Computer Science Engineering	2017
422.	Principle of management & Economics	BCSL501	Computer Science Engineering	2017
423.	Internet Technology & web Designing(E-I)	BCSL509	Computer Science Engineering	2017
424.	Management Information System(E-I)	BCSL510	Computer Science Engineering	2017
425.	Lab(Java Programming)	BCSP506	Computer Science Engineering	2017

426.	Self Study	BCSS507	Computer Science Engineering	2017
427.	Seminar/ Group Discussion	BCSS508	Computer Science Engineering	2017
428.	Advance Database Management System	620201	Computer Science Engineering	2017
429.	Soft Computing	620202	Computer Science Engineering	2017
430.	Advance Algorithms and Design	620203	Computer Science Engineering	2017
431.	Advance Topics in Data Mining & Warehousing	620204	Computer Science Engineering	2017
432.	Adhoc & Sensor Based Networks	620205	Computer Science Engineering	2017
433.	Theoretical Foundation of Computer Science	620101	Computer Science Engineering	2017
434.	Distributed System	620102	Computer Science Engineering	2017
435.	Advanced Computer Architecture	620103	Computer Science Engineering	2017
436.	Advanced Computer Networks	620104	Computer Science Engineering	2017
437.	Mobile Computing &M-Commerce	620105	Computer Science Engineering	2017
438.	SAD and Software Engineering	680101	Computer Science Engineering	2017
439.	Mathematical Foundation of Computer Science	680102	Computer Science Engineering	2017
440.	Programming and Problem Solving in C	680103	Computer Science Engineering	2017

441.	Computer Organization and Assembly Language Programming	680104	Computer Science Engineering	2017
442.	Communication Skills	680105	Computer Science Engineering	2017
443.	Assembly Language Programming Lab	680107	Computer Science Engineering	2017
444.	Multimedia Systems	680201	Computer Science Engineering	2017
445.	Computer Oriented Numerical & Statistical Methods	680204	Computer Science Engineering	2017
446.	Accounting & Management Control	680205	Computer Science Engineering	2017
447.	Data Structure Programming Lab	680206	Computer Science Engineering	2017
448.	Programming Lab in Computer Graphics	680207	Computer Science Engineering	2017
449.	Computer Oriented Optimization	680301	Computer Science Engineering	2017
450.	Object Oriented Methodology & C++	680303	Computer Science Engineering	2017
451.	Database Management System	680304	Computer Science Engineering	2017
452.	Managerial Economics	680305	Computer Science Engineering	2017
453.	Minor Project-I(VB+MySql)	680306	Computer Science Engineering	2017
454.	C++ Programming Lab	680307	Computer Science Engineering	2017
455.	Theory of Computation	680401	Computer Science Engineering	2017

456.	Artificial Intelligence and Machine Learning	680402	Computer Science Engineering	2017
457.	Unix and Shell Programming (Elective-I)	680403	Computer Science Engineering	2017
458.	Java Programming and Technologies	680404	Computer Science Engineering	2017
459.	Computer Networks and Communication	680405	Computer Science Engineering	2017
460.	Minor Project-II (Java and MySQL)	680406	Computer Science Engineering	2017
461.	Programming Lab in Unix and Shell Programming	680407	Computer Science Engineering	2017
462.	Analysis and Design of Algorithms	680501	Computer Science Engineering	2017
463.	Network and Cyber Security	680502	Computer Science Engineering	2017
464.	Web Technologies and Cloud Computing	680503	Computer Science Engineering	2017
465.	Elective-I (.NET Technologies and C#)	680504	Computer Science Engineering	2017
466.	Elective-II (Data Warehousing and Mining)	680505	Computer Science Engineering	2017
467.	Minor Project-III (Web Based Application Using .NET)	680506	Computer Science Engineering	2017
468.	Programming Lab in PHP and Web Technologies	680507	Computer Science Engineering	2017
469.	System Development Project	680601	Computer Science Engineering	2017
470.	Elective-I (Graphic Design)	AR506	Architecture Planning	2017
471.	Elective-III (Conservation)	AR705	Architecture Planning	2017

472.	Inclusive Urban Planning (Elective -I)	670301	Architecture Planning	2017
473.	Environment, Development and Disaster Management (Elective - II)	670302	Architecture Planning	2017
474.	Production & Operation & Management	MEL705(I)	Mechanical Engineering	2017
475.	Non Conventional Energy Sources	MEL705(II)	Mechanical Engineering	2017
476.	Material & Handling	MEL705(III)	Mechanical Engineering	2017
477.	Computer Integrated Manufacturing	MEL 705(IV)	Mechanical Engineering	2017
478.	Machine Tool Technology	MEL705(V)	Mechanical Engineering	2017
479.	Emerging Technologies & Management Techniques	MEL804(I)	Mechanical Engineering	2017
480.	Statistical Quality Control / Statistical Process Control	MEL804 (II)	Mechanical Engineering	2017
481.	Maintenance Management	MEL804 (IV)	Mechanical Engineering	2017
482.	Software Lab	120315	Mechanical Engineering	2017
483.	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	120508	Mechanical Engineering	2017
484.	Summer Internship Project-I	120507	Mechanical Engineering	2017
485.	Summer Internship Project-II (Evaluation)	120702	Mechanical Engineering	2017
486.	Analog Electronics	BEEL304	Electrical Engineering	2017
487.	Electromagnetic Field Theory	BEEL305	Electrical Engineering	2017
488.	Simulation Lab-I	BEEP306	Electrical Engineering	2017
489.	Idea Generation	BEES307	Electrical Engineering	2017
490.	Non-Conventional Energy Resources challenges & its applications	BEEL503	Electrical Engineering	2017
491.	Control System Design	BEEL504	Electrical Engineering	2017
492.	Signals & Systems	BEEL405	Electrical Engineering	2017