Minutes of 1st Academic Council Meeting

Date: 6th July 2019, 10:30 am onwards

Venue: Kirloskar Auditorium, BIEL, COEP

Agenda

Item. No.	Item
01	Formal Welcome of all the members of Academic Council and round of introduction by the Honorable Director, Prof. B. B. Ahuja
02	Seeking Approval for the list of two Subject Experts of the Board of Studies of each Department outside the University to be nominated by Academic Council
03	Seeking Approval for the Academic Calendar of the AY 2019-20
04	Presentation of Examination Results and the Analysis of Graduating Batches of AY 2018-19: All UG and PG Programmes
05	Seeking Approval for the list of Programme-wise Toppers and Rank Holders: All UG Programmes
06	Curriculum Revision-2019 a) The thought process and philosophy by Prof. M. S. Sutaone b) Details of B.Tech/B.Planning/M.Tech/M.Planning curriculum by concerned Heads of the Departments, to be implemented w.e.f. the AY 2019-20
07	Status of Honors/Minors Courses after the completion of one batch by Dean Academics
08	Examination Reforms By Dean Academics
09	Any Other Point with Permission of the Chair

Item No. - 01: Formal Welcome to all Academic Council members and round of Introduction by the Honorable Director, Prof. B. B. Ahuja.

The 1st Academic Council meeting commenced with the formal welcome of all the members of the Academic Council by the Chairman of Academic Council and Director of the institute, Dr. B. B. Ahuja. He briefed the newly nominated external members about the various UG/ PG programmes offered at the institute with their intake capacity, the accreditation process etc. He also briefed about the two one year PG Diploma courses offered in ERP- SAP and Additive Manufacturing by the Department of Production Engineering and Industrial Management. He added that the college in association with various industry partners will soon offer three more one year PG Diploma courses in Electric Mobility and Rail and Metro technology (The curriculum structure of these diploma courses are presented in Annexure 1 and 2). He stated that the curriculum of the same will be soon presented before the Academic Council for their approval. He also stated the current faculty positions and mentioned that the curriculum revamping process is done every 4 years. It was followed by a formal self-introduction of all the internal members (HoDs, Deans, Faculty) present for the meeting.

R-AC-1/01/2019: The members RESOLVED to APPROVE to the commencement of one year full time PG Diploma courses in Electric Mobility and Rail and Metro technology with effect from the Academic Year 2019-20.

Item No. - 02: Seeking Approval for the list of two Subject Experts of the Board of Studies of each Department outside the University to be nominated by Academic Council.

Prof. Mrs. Jibi Abraham, the Dean Academics, introduced all the external members of the Academic Council and presented the Responsibilities and Powers of the Academic Council as given in the notification regarding norms of Autonomy by Government of Maharashtra, dated 14th January 2019. She also presented the list of two subject experts on the Board of Studies of the respective departments from outside the University nominated by the Academic Council (as presented in Annexure 3). The forum deliberated on some of the nominations and made following suggestions.

1. Dr. Sameer Chavan, IIT Kanpur was suggested as the additional member of BOS for the Department of Mathematics.
2. The Department of Applied Sciences must identify one expert from either IISER or NCL as the formal BOS member. It was also suggested to have the current member Dr. Radha Krishnan as the invitee member.
3. The Department of Physics must identify one expert from IISER/ IUCCA or other institute of the similar stature.

R-AC-1/02/2019: The members RESOLVED to APPROVE the BoS nominations and inclusion of new members of BoS at the Departmental Undergraduate Programme Committee (DUPC) of Mathematics, Applied Sciences and Physics.

Item No. - 03: Seeking Approval for the Academic Calendar of the AY 2019-20

Prof. Mrs. Jibi Abraham, the Dean Academics, presented the academic calendar for year 2019-20. The following suggestions were received from the members, accordingly.

1. To have a dedicated day for Ph. D registration in the Academic Calendar.
2. To shift Mindspark in the beginning of the semester. Since the first year admission process prolongs up to August and they need to participate in the same, it is not feasible.

The Chairman of the Academic Council and the Honorable Director, Dr. Ahuja, briefed the external members about the assessment system of the institute and also informed that there are dedicated days for conduction the orientation programmes for UG, PG and PhD students.

R-AC-1/03/2019: All the members unanimously resolved to have a dedicated day for Ph.D registration in the Academic Calendar.

Item No. - 04: Presentation of Examination Results and the Analysis of Graduating Batches of the AY 2018-19: All UG and PG Programmes

Dr. S. G. Sonar, the Controller of Examination, presented the programme-wise result analysis of the examination results. A comparative analysis for years on parameters like Average CGPA, number of students passed, success index etc. was shown and discussed accordingly.

R-AC-1/04/2019: The members RESOLVED to APPROVE the results and its analysis.

Item No. - 05: Seeking Approval to the List of Programme-wise Toppers and Rank Holders: All UG Programmes.

The list of Programme wise toppers and Rank holders (as presented in Annexure 4), who have qualified for the Institute Gold Medals was presented before the members for their approval. It was informed that the toppers from each Programme are awarded with the Gold Medal and cash prize which has been instituted by the BOG.

R-AC-1/05/2019: The members RESOLVED to APPROVE the list of Programme toppers and Rank holders.

Item No. - 06: Curriculum Revision-2019

a) The thought process and philosophy by Prof. M. S. Sutaone

Prof. M. S. Sutaone, Deputy Director presented the salient features of the curriculum iteration-V, which will be done in this academic year. He also briefed about the best academic practices followed at the institute and presented the Curriculum structure, teaching schemes and credit allotments for various UG and PG programmes. He added that the structure is in accordance with the model curriculum announced by AICTE.

b) Details of B.Tech/ B.Planning/ M.Tech/ M.Planning curriculum by the concerned Heads of the Departments, to be implemented w.e.f. the AY 2019-20

In the purview of the running time, it was decided that the respective heads will send the curriculum details of the UG and PG programmes offered by the departments, to all the members through email for their perusal.

In UG Curriculum, the structure for E-Group and M-Group of first year may be different. Hence, the Programme change facility after first year should ensure that if there are compromises on courses between E-Group and M-Group, then such courses if any shall be completed as audit courses in the 2nd year by the respective students.

R-AC-1/06/2019: The members RESOLVED to APPROVE the 5th iteration of UG and PG curriculum structures to start from the Academic Year 2019-20.

Item No. - 07: Status of Honors/Minors Courses after the completion of one batch By Dean Academics.

Prof. Dr. Jibi Abraham, the Dean Academics, briefed the external members on the concept and motive behind introducing the Honors and Minors Programmes. It was followed by the statistical analysis of results of the first batch of students who successfully completed the Honors and Minors Programmes.

R-AC-1/07/2019: The members RESOLVED to APPROVE the results of Honors/Minors Courses unanimously.

Item No. - 08: Examination Reforms by the Dean Academics.

In the concluding session, Prof. Dr. Jibi Abraham, the Dean Academics, shortly presented the reforms of various examination practiced at the institute.

a) Regarding the proposal for slow learning or year down concept, following deliberations were made:
    i. UG students who have acquired less than 70% (after the decimal values in the calculated percentage rounded up to the next integer value) of credits out of the total assigned First Year credits after completing first year, shall be on the "Slow Learners Track" and shall need to continue registering and attending the lectures of pending courses in the following year itself. Such students shall not be allowed to register for the second year of the UG programme.
    ii. UG students, who acquire a minimum of 70% of credits out of the total assigned First Year credits after completing first year, shall register for all the courses of second year and the pending courses of first year. In case of overlapping lectures in the time table, students shall be permitted to register for equivalent MOOC course approved by the concerned head of the department and Dean Academics.
    iii. By following the "Year Down Concept" for the transition to (N+1)th year, all backlogs of (N-1)th year must be cleared (where, N = 2nd year or 3rd year) by the students.

iv. For the lateral entry admitted UG students in second year, "Slow Learners Track" shall be followed in Second - Third Year and "Year Down" in Final Year.

v. For PG students, "Slow Learners Track" shall be followed in the First-Second Years.

vi. As per the University norms, degree shall not be awarded to the students who fail to complete the degree requirements within 6 years for a UG Programme or within 4 years for a PG programme from the date of admission. Hence, admissions of the UG students who don't complete the first 4 semesters in the first 4 Academic Years shall stand cancelled as there shall be less possibility of degree completion in the prescribed period.

vii. The University system of issuing the hall tickets for examinations shall be practiced at the institute which shall assure the students that which examinations of which courses they shall be eligible to appear for. The following deliberations were made:

viii. Hall tickets shall be mandatory to be presented for Test 1, Test 2 of CIE tests and for the End Semester Examinations.

ix. The students shall be allotted the hall tickets only if they have given the academic feed backs before the Test 2 and end semester examinations.

b) Exemptions in case of a student being absent in CIE tests or end semester examinations shall be permitted by ensuring the gravity and geniuses of each case. The following deliberations were made:

i. The student will have to take the permission for Retest/Re-examination within 7 days of date of CIE test or ESE schedule of the course/s respectively, through proper channels.

ii. Pro-rata system practiced in earlier years shall be replaced with the system in which the Course Instructor is to give a retest or an assignment for the missed CIE evaluation within 10 days of the scheduled CIE tests.

iii. Grade – 'I' shall be awarded for courses being absent during ESE, which are permitted for Re-Examination and shall not be considered for SGPA calculation during regular semester. Same grade as gained in the Re-

examination shall be awarded and the new SGPA is calculated based on the gained grades.

c) To avoid undue misuse of the Re-examination facility for the failed courses, an upper threshold of BC grade shall be followed.

d) The disciplinary actions against misconduct during CIE/ESE/Re-Examination/Summer examinations were presented. These disciplinary actions shall be listed in the Academic Rules and Regulations to bring in more severity among the students.

Following suggestions were made against point (b) and (c).

i. The students will be allotted the hall tickets only if they have given the feedback before the Test 2 and end semester exams:- The members stated that though getting students feedback is essential, we shouldn't relate it with getting hall tickets as doing such may invite certain legal issues. The institute functionaries should therefore implement some other measures to ensure the receipt of the feedback from the students.

ii. Exemptions in case of absence of the students in continuous evaluation or examination should be given by ensuring the gravity and genuineness of the case: Dr. Ahuja, the Chairman of Academic Council and Director of the institute, suggested to have a committee comprising of Dean Academics, HOD and other members who will set a yardstick and give the exemption after studying the case in detail.

R-AC-1/08/2019: The members RESOLVED to APPROVE to implement all the Examination Reforms.

Prof. Dr. Jibi Abraham thanked all the members for attending the meeting and declared the meeting concluded. The meeting ended with the vote of thanks to the Chair.

Prof. Jibi Abraham
Member Secretary

Annexure 1: Curriculum STRUCTURE OF ONE YEAR FULL TIME POST GRADUATE DIPLOMA IN ELECTRIC MOBILITY (PGDEM)

(A Joint Programme of MCCIA, COEP and Cummins COE, Pune)

Trimester I

Sr. No.	Course Code	Course Name	Teaching Scheme			Credits
			L	T	P	
1	PGEM1	Bridge Course a) Fundamentals of Automotive Electrical And Electronic Systems (for Mechanical) b) Fundamentals of Automotive Mechanical Systems (Electrical group)	3	0	0	3
2	PGEM2	Applied Mathematics	2	1	0	3
3	PGEM3	EV System Design and Architecture	3	0	0	3
4	PGEM4	Energy Storage Systems for Electric Vehicles	2	1	0	3
5	PGEM5	EV Motor Drives and Power Electronics	2	1	0	3
6	PGEM6	Lab 1	0	0	4	2
7	PGEM7	Mini Project 1	0	0	4	2
		Total	12	3	8	19
		Total Academic Engagement and Credits	**23**			**19**

Trimester II

Sr. No.	Course Code	Course Name	Teaching Scheme			Credits
			L	T	P	
1	PGEM8	Vehicle Dynamics and Traction Systems	2	1	0	3
2	PGEM9	Sensors and Controls in Electric Vehicles	2	1	0	3
3	PGEM10	IOT for Electric Vehicles	3	0	0	3
4	PGEM11	Elective 1	2	0	0	2
5	PGEM12	Elective 2	2	0	0	2
6	PGEM13	Lab 2	0	0	4	2
7	PGEM14	Mini Project 2	0	0	8	4
		Total	11	2	12	19
		Total Academic Engagement and Credits	**25**			**19**

Trimester III

Sr. No.	Course Code	Course Name	Teaching Scheme			Credits
			L	T	P	
1	PGEM14	Industrial In-Plant Training (15-18 Weeks)	0	0	0	12
		Total	0	0	0	12
		Total Academic Engagement and Credits	**0**			**12**
Course Total Credit						**50**

Sr.No	List of Electives
a	Thermal Design and Management of EV Systems
b	Safety and Automotive Standards
c	Energy Management and Vehicle Integration
d	Advance Electric Devices
e	Embedded Systems and in vehicle communication protocols
f	FEM and CFD for Electric Vehicles
g	Design Validation Process

Annexure 2: Curriculum Structure of Post Graduate Diploma Course in Rail and Metro Technology (PGDRMT)

DURATION: 1 YEAR (Two Semesters)

FIRST SEMESTER: 14 WEEKS

SECOND SEMESTER: 14 WEEKS

PRACTICAL TRAINING – With Industry Connect and Indian Railways

ELIGIBILITY: Graduate in Engineering Programmes of Civil, Mechanical, Electrical and Electronics

FIRST SEMESTER (14 WEEKS)

S.No	Name of the Course	Teaching Scheme			Examination Scheme			Credits
		L	T	P	T1	T2	ESE	
1	Introduction to Railways and Track Technology	4		2	20	20	60	5
2	Railway Traction Mechanical	4		2	20	20	60	5
3	Railway Traction Electric	4		2	20	20	60	5
4	Railway Rolling Stock	4		2	20	20	60	5
5	Elevated Structures	4		2	20	20	60	5
6	Lab 1			2	20	20	60	2
							Total	27

SECOND SEMESTER (14 WEEKS)

S.No	Name of the Course	Teaching Scheme			Examination Scheme			Credits
		L	T	P	T1	T2	ESE	
1	Signal and Telecommunication Engineering	4		2	20	20	60	5
2	Metro Rail Engineering-1	4		2	20	20	60	5
3	Metro Rail Engineering-2	4		2	20	20	60	5
4	Project Work	4		2	20	20	60	5
5	Underground Structures	4		2	20	20	60	5
6	Lab 2			2	20	20	60	2
							Total	27
						Grand Total Credits		54

Annexure 3: List of two Subject Experts of the Board of Studies of each Department outside the University to be nominated by Academic Council

Department	Details of Nominee in BoS
Civil Engineering	1. Dr. K. S. Gumaste, Professor, Civil Engineering, Walchand College of Engineering Sangli, Sangli 2. Prof. Manish Kumar, Assistant Professor, Civil Engineering, IIT Bombay
Planning	1. Dr. Mahavir, Professor, School of Planning and Architecture, Delhi 2. Prof. Nikhil Ranjan Mandal, Professor, School of Planning and Architecture, Bhopal
Computer Engineering and Information Technology	1. Prof. Uday Khedkar. Professor, CSE, ,IIT Bombay 2. Prof. Bharat Adsul, Professor, CSE, IIT Bombay
Electrical Engineering	1. Prof. B. G. Fernandes, Professor, Electrical Engineering, IIT Bombay 2. Prof. Abhijit Abhyankar, Professor, Electrical Engineering, IIT Delhi
Electronics and Tele Communication Engineering	1. Prof. Vikram M. Gadre, Professor, Electrical Engineering IIT Bombay 2. Dr.V.B. Dharmadhikari, Associate Professor, Electronics Engineering, Walchand College of Engineering, Sangli
Instrumentation and Control Engineering	1. Dr. Kishalay Mitra, Associate Professor, Chemical Engineering, IIT Hyderabad 2. Dr. Hrishikesh Kulkarni, Assistant Professor, Electronics and Electrical Engineering, IIT Guwahati
Mechanical Engineering	1. Dr. B. P. Puranik, Professor, Mechanical Engineering, IIT Bombay 2. Dr. V. M. Phalle, Associate Professor in Mechanical Engg., V.J.T.I., Bombay

Metallurgy and Material Science	1. Prof. Ajit Kulkarni, Institute Chair Professor, Metallurgical Engg. and Materials Science, IIT Bombay 2. Prof. Nityanand Prabhu, Professor, Metallurgy and Materials Science, IIT, Bombay
Production Engineering and Industrial Management	1. Prof. V. Radhakrishnanan, Professor, Indian Institute of Space Science and Technology, Kerala 2. Prof. Shounak Kumar Chaoudhary, Professor, Mechanical Engineering, Indian Institute of Technology, Kanpur
Mathematics	1. Dr. Amot Hogadi, Mathematics, ICSER Pune
Physics	1. Dr. Sunil Nair, Associate Professor, Physics, IISER, Pune
Applied Science	1. Dr. Anand Godse, Associate Professor, Psychology, School of Vedic Science.MIT ADT University, Pune 2. Dr. S. Radhakrishnan, Professor Emeritus and Director Research, Development and Innovation, MIT-World Peace University, Pune

Annexure 4: List of UG Programme wise toppers and Rank holders qualified for the Institute Gold Medals

Sr. No	PRN No.	Name of Students	Programme Name	CGPA
1	111501051	Shinde Priti Suresh	Civil Engineering	9.43
2	141603003	Desai Vinay Prakash	Computer Engineering	9.65
3	111505039	Rajopadhye Tejas Dhananjay	Electrical Engineering	8.82
4	111505016	Hrishikesh P Kale	Electronics and Telecommunication Engineering	9.62
5	111508012	Balasubramanian M	Information Technology	9.44
6	111509027	Pradnya Gorakshanath Sabale	Instrumentation and Control Engineering	9.12
7	111510115	Sane Siddharth Nitin	Mechanical Engineering	9.65
8	111511018	Joshi Abhijeet Chintamani	Metallurgical Engineering	9.21
9	111514054	Darak Sakshi Omprakash	Planning	9.11
10	141613008	Lolge Prafull Prakash	Production Engineering (Sandwich)	9.19
11	111513047	Patil Tanvi Abhay	Production Engineering (Sandwich)	9.06

Minutes of 2nd Academic Council Meeting

Date: 21st September 2019, 10:30 am onwards

Venue: Kirloskar Auditorium, BIEL, COEP

Agenda

Item. No.	Item
1	Formal Welcome of all the members of Academic Council and round of introduction by the Honorable Director, Prof. B. B. Ahuja
2	Confirmation of the Minutes of the 1st Academic Council meeting held on 6th July 2019
3	Actions Taken Report (ATR) on the Resolutions/Decisions 1st Academic Council meeting held on 6th July 2019
4	Autonomous Ph.D/M.Phil/M.Phil-Ph.D Programmes of COEP: Rules and Regulations
5	Admission Quality of Students at COEP for AY 2019-20: Presentation of Analyses by Respective Admission Chairs of FY B.Tech/B.Planning/FY M.Tech./M.Planning/Direct Admissions at SY B.Tech
6	Any Other Point with Permission of the Chair: Dr. D. N. Sonawane, Head, Dept of Instrumentation and Control Engineering to a. F Y M Tech- Biomedical Instrumentation admission update eligibility b. UG increase of intake from 30 to 40 and additional 20 for 05 year Integrated Programme in Instrumentation and Control Engineering

Item No. - 01: Formal Welcome to all Academic Council members by the Honorable Director, Prof. B. B. Ahuja.

The 2nd Academic Council meeting commenced with the formal welcome of all the members of the Academic Council by the Chairman of Academic Council and Director of the institute, Dr. B. B. Ahuja. He briefed about the two one year PG Diploma courses namely PG Diploma in Electric Mobility (PGDEM) and PG Diploma in Rail and Metro Technology (PGDRMT) started in the academic year 2019-20 with the intake of 30 each. The fees for PGDEM course is Rs. 1,55,000/- per student per annum and that of PGDRMT is Rs. 3,50,000/- per student per annum. Also, he briefed about the institute's plan to rename the

B.Tech programmes: "Metallurgy and Materials Science" to "Metallurgy and Materials Technology" and "Production Engineering (Sandwich pattern)" to "Manufacturing and Systems Engineering (Regular pattern)" from the Academic Year 2020-21. As AICTE facilitates the scheme of Integrated/Dual degree programmes, the institute will soon propose modifying a few of the UG programmes into integrated in nature. Also, an MBA programme with 30 intake is planned which will commence from Academic year 2020-21 with emphasize on Entrepreneurship and Finance and the required preparations of the same will be initiated very soon.

R-AC-2/01/2019: The members RESOLVED to APPROVE the change of nomenclature of B.Tech "Metallurgy and Materials Science" to "Metallurgy and Materials Technology" (60 intake), B.Tech "Production Engineering (Sandwich pattern)" to "Manufacturing and Systems Engineering (Regular pattern)" (60 intake) and the commencement of MBA Programme (30 intake) with effect from the Academic Year 2020-21.

Item No. - 02: Confirmation of the minutes of 1st Academic Council meeting dated 6th July 2019

The minutes of the 1st meeting of the Academic Council held on 6th July 2019 were already circulated to the members by Prof. Jibi Abraham well in advance. The minutes of the meeting were placed before the members for confirmation and approval.

Prof. Salil S. Kulkarni observed that minutes do not include the decision regarding the pending courses after a student receives Programme change in Second Year B.Tech. Dean Academics replied that the minutes will be updated by the decision as "In UG Curriculum, the structure for E-Group and M-Group of First Year may be different. Hence, the Programme change facility after First Year shall ensure that if there are compromises on courses between E-Group and M-Group, then such courses, if any, shall be completed as audit courses in the 2nd year by the respective students."

R-AC-2/02/2019: The members RESOLVED to APPROVE the Minutes of the 1st meeting of the Academic Council of the Institute held on 6th July 2019 unanimously honouring the observations made by Prof. Salil S. Kulkarni.

Item No. - 03: Actions Taken Report (ATR) on the Resolutions/Decisions of 1st Academic Council meeting held on 6th July 2019

Dean Academics presented the Actions Taken Report on various resolutions/decisions taken on every agenda item of the 1st Academic Council meeting held on 6th July 2019 as given in Table 1:

Table 1: Actions Taken Report on the Resolutions 1st of Academic Council meeting held on 6th July 2019

Item No. and Resolution	Action Taken
Item No. - 01: Formal Welcome to all Academic Council members and round of Introduction by the Honorable Director, Prof. B. B. Ahuja **R-AC-1/01/2019:** The members RESOLVED to APPROVE the establishment and commencement of one year full time PG Diploma courses in Electric Mobility and Rail & Metro technology with effect from the Academic Year 2019-20.	PG Diploma courses in Electric Mobility (PGDEM) and Rail and Metro Technology (PGDRMT) commenced from the Academic Year 2019-20 with the strength of 19 and 14 respectively.
Item No. - 02: Seeking Approval for the list of two Subject Experts on the Board of Studies of each Department outside the University to be nominated by Academic Council. **R-AC-1/02/2019:** The members RESOLVED to APPROVE the BoS nominations and inclusion of new members of BoS at the Departmental Undergraduate Programme Committee (DUPC) of Mathematics, Applied Sciences and Physics.	Revised BoS committee was constituted including Experts as: • Mathematics - Dr. Sameer Chavan from IIT Kanpur • Physics - Dr. Sanjay Dhole from Savitribai Phule Pune University • Applied Science - Dr. V .G. Anand from IISER, Pune
Item No. - 03: Seeking Approval for the	Since COEP's Ph.D programme is not

Academic Calendar of the AY 2019-20. **R-AC-01/03/2019:** All the members unanimously resolved to have a dedicated day for Ph.D registration in the Academic Calendar.	autonomous, the admission is based on the process followed by SPPU. Hence a dedicated day for Ph.D registration could not be mentioned in the academic calendar of this year. This shall be implemented and brought in practice once the Ph.D programme becomes autonomous.
Item No. - 04: Presentation of Examination Results and the Analysis of Graduating Batches of the AY 2018-19: All UG and PG Programmes. **R-AC-1/04/2019:** The members RESOLVED to APPROVE the results and its analysis.	The grade sheets and the passing certificates were distributed to the graduating students during the Graduation Ceremony, which was held on 23rd July 2019.
Item No. - 05: Seeking Approval to the List of Programme-wise Toppers and Rank Holders: All UG Programmes. **R-AC-1/05/2019:** The members RESOLVED to APPROVE the list of Programme toppers and Rank holders.	Gold Medals were awarded to the meritorious recipients during the Graduation Ceremony, which was held on 23rd July 2019.
Item No. - 06: Curriculum Revision-2019. **R-AC-1/06/2019:** The members RESOLVED to APPROVE the 5th iteration of UG and PG curriculum structures to start from the Academic Year 2019-20.	The new curriculum in its 5th iteration was introduced and is being implemented with effect from the AY 2019-20 July.
Item No. - 07: Status of Honors/Minors Courses after the completion of one batch By Dean Academics. **R-AC-1/07/2019:** The members RESOLVED to APPROVE the results of Honors/Minors	A separate Honors/Minors Certificate was distributed to each successful candidate during the Graduation Ceremony held on 23rd July 2019.

Courses unanimously.	
Item No. - 08: Examination Reforms by the Dean Academics **R-AC-1/08/2019:** The members RESOLVED to APPROVE implementation of all the Examination Reforms with effect from the AY 2019-20 July in synchronization with the 5th iteration of curriculum revision.	Changes were incorporated in MIS software to generate the hall tickets for Test1 and Test2. Linking the hall tickets with the Mid semester and the End semester feedbacks was introduced. Implementation of Hall tickets for Test1 was commenced when this examination was conducted during 30/8/2019 to 1/9/2019. The practice of granting permission for Re-Test or Re-exam only after receiving recommendations from a committee comprising of Faculty Advisor, concerned HOD and Dean Academics, was introduced from the Test 1 examination of odd semester of AY 2019-20.

After presenting the Actions Taken Report, the members also suggested including a representative of students preferably the B.Tech Final Year Programme topper as a member of respective BoS. Prof. Vagge expressed concern regarding issuing Hall tickets for Test 1 and Test 2. Director elaborated that the hall tickets are introduced to confirm the accuracy in configurations/registration in MIS and also to make sure that all the students complete giving the semester course feedbacks in time. The members approved the issuance of Hall tickets for Test 1, Test 2 and End Semester Examinations.

R-AC-2/03/2019: The members RESOLVED to APPROVE the Actions Taken Report (ATR) on the Resolutions/Decisions of 1st Academic Council meeting held on 6th July 2019.

Item No. - 04: Autonomous Ph.D/M.Phil/M.Phil-Ph.D Programmes of COEP: Rules and Regulations

Prof. M.S. Sutaone, Deputy Director presented the various regulations and notifications from UGC, Govt. of Maharashtra and SPPU to empower the autonomous institutes on starting their own Ph.D programme. He also apprised about COEP's efforts to devise its own Ph.D rules and regulations and the initial round of presentations of the proposed Ph.D rules and regulations for Engineering held on 44th Senate Meeting dated 8th June 2018. The rules were further revised and the various clauses in the latest version are being presented in front of the Academic Council for approval. During the presentation, very healthy deliberations went on as follows:

The constitution and functions of various committees are defined at the Institute level and the department level such as Institute Research and Recognition Committee (IRRC), Department Research Committee (DRC), Research Advisory Committee (RAC), Institute Academic Integrity Panels (IAIP) and Department Academic Integrity Panels (DAIP). The proposed constitution of DRC includes "all Professors/Associate Professors/ Research Guides" as members. However, there was a suggestion to restrict the membership to a maximum of six members consisting of two professors, two Associate Professors and two other Supervisors (Assistant Professor with Ph.D). The council also suggested including Co-Supervisor (if any) as a member of the RAC. The functions of RAC proposed includes administrative functions like investigating issues such as Guide/candidate dispute, change of guide, expiry of registration period and extension. However, the Council suggested that these administrative functions need to be shifted to DRC. The progress seminars must be given twice a year by holding the RAC meeting twice in a year. Progress Seminars are to be completed during 1st June – 15th July period and between15th Dec -15th Jan period. The channel of communication and reporting is RAC to DRC to IRRC to Academic Council. Concerning IAIP and DAIP, the Council noticed that too many committees may lead to reducing the interest and hence the functions proposed as part of IAIP and DAIP may be merged with DRC and RAC respectively.

The eligibility criteria for Ph.D. Admissions shall be in line with the UGC declared norms. Besides, as an encouragement to bright candidates having the distinction in B.Tech/M.Tech or professionals with enriched experience/research credentials, special eligibility criteria can be thought about. The draft proposal categorizes the candidates to full time and part-time in nature. The Council suggested that the nomenclature "full-time

candidate" to be changed to Institute Research Scholar and "part-time" as External Research Scholar.

The admissions shall be conducted by DRC twice in a year through COEP's Research Programme Entrance Test (RPET). Even though the draft proposed to give exemption to the Candidates having UGC, UGC-NET, including JRF/UGC-CSIR NET /SLET/GATE/teacher fellowships to appear for RPET, the Council opined that the entry should be as stringent as possible and all candidates must appear for RPET. The Ph.D programme consists of mandatory Course works, Topic Registration seminar, six-monthly Progress Seminars, Synopsis presentation, Thesis submission and Open Defense. The Course works are to be completed within one year and for successful clearing of each course work, a grade DD and above must be obtained.

The current SPPU's practice of giving the Topic Registration seminar at the time of admission has to be eliminated. Sufficient time has to be given to present the Topic Registration seminar to the candidate after completing the course works within one year from the date of first admission

The draft proposal also states the minimum duration of the Ph.D programme as three years from the date of Topic Registration seminar and a maximum of six years. Extension up to a maximum period of two years shall be permitted by the IRRC on the recommendation of the RAC. A candidate fulfilling the minimum programme duration and having minimum Publications requirements (one journal and one conference or two journal publications) shall be permitted for Synopsis presentation. Patent filing and copyright filing are very easy compared to reviewed publications. Hence only filing patent/copyright cannot be considered as equivalent to a Journal Publication, however, publication of a Patent will be considered equivalent to a Journal publication.

The draft proposal presented the norms for recognition of Supervisors, but the deliberations in the Academic Council suggested recognizing all Professors and Associate Professors as de facto supervisors and they need not have to apply to the IRRC for Supervisor recognition, but all Assistant Professor with Ph.D and having a minimum of three publications shall have to submit their formatted application to the IRRC. There is no need for renewal of supervisor-ship until the age of retirement and there after the renewal will be on case to case basis for a specific time period. Even though a supervisor can guide candidates up to 70 years, a co-guide has to be associated for admitting any new students once the

supervisor completes 65 years. Persons of Industry and Research Organization origin having Ph.D can co-supervise a candidate along with COEP faculty as Supervisor. In the case of any filed /accepted patent, the same shall be shared by both the industry and the COEP. Also, freedom shall be given to recognize academic supervisors from the other Institutes within 50km of the geometric distance of COEP to supervise candidates at COEP research Center.

After the presentation of the rules and regulations by Prof. Sutaone on autonomous Ph.D for Engineering disciplines, Mrs. Nandini Iyer, HoD of Applied Science presented the same for M.Phil and M.Phil-Ph.D in Basic Sciences, Humanities and Social Sciences. The presentation included the details about eligibility criteria for admission, programme duration, admission process and course works. The Academic Council has made the following suggestions:

- As UGC has a mandate, not to declare any maximum intake capacity for the M.Phil and M.Phil-Ph.D programmes.
- The entrance test shall be only subject-based and research methodology shall not be part of it.
- Re-organize the course works for M.Phil by shifting Seminar and Presentation Skills to 1st semester and Laboratory Skills to 2nd semester

R-AC-2/04/2019: The members RESOLVED to APPROVE the "Rules and Regulations of Autonomous Ph.D/M.Phil/M.Phil-Ph.D Programmes at COEP" after incorporating the suggestions/inputs given by the members towards submission to BoG of COEP and SPPU in the near future.

Item No. - 05: Admission Quality of Students at COEP for AY 2019-20: Presentation of Analyses by Respective Admission Chairs of FY B.Tech/B.Planning/FY M.Tech./M.Planning/Direct Admissions at SY B.Tech

Prof. S.T. Vagge, Chairman of B. Tech/B.Planning Admissions, gave a presentation about the quality of the students admitted to First Year Programs by giving the minimum and maximum percentile score of the candidates in MHCET. Since the previous years' admissions were based on MHCET marks, he could not make a comparison of the quality of intake of this year's admission to the previous years.

Dr. A. P. Bhattu, Chairman of M. Tech/M.Planning admissions, gave a presentation about the quality of the students admitted to the 24 specializations of M. Tech/M.Planning by

giving the total intake (category wise, Sponsored/non-sponsored), the minimum and maximum GATE score and male/female distributions. He also made a comparison to the previous two years' admissions and commented that the intake quality is found to be more or less the same in comparison to previous years. However, the Council expressed concern about the less number of admissions in M.Tech Bio-Medical Instrumentation in this academic year compared to the previous years.

Dr. A.P. Deshpande, Chairman of Direct Second Year B. Tech admissions, gave a presentation about the quality of the students admitted to Direct Second Year B. Tech Programs by giving the total intake (category wise), the minimum and maximum diploma percentage of marks and male/female distributions. It was found that almost all students admitted here scored above 80% of marks during their diploma.

The Power Point Presentations on Analyses of the Admission Quality of Students at COEP for the AY 2019-20 presented by the respective Admission Chairs of FY B.Tech/B.Planning/FY M.Tech./M.Planning/Direct Admissions at SY B.Tech are attached in Annexure 1.

R-AC-2/05/2019: The Academic Council NOTED the admission status and appreciated the presentations made by the Chair persons of admissions.

Item No.- 06: Dr. D. N. Sonawane, Head, Dept of Instrumentation and Control Engineering requested to update the admission eligibility criteria for the M.Tech Biomedical Instrumentation and to increase the intake of B.Tech Instrumentation and Control Engineering programme

Dean Academics presented the requirements from the Department of Instrumentation and Control Engineering. Admission for F Y M Tech Biomedical Instrumentation for the academic year 2019-20 resulted in poor student intake. Hence, the Academic Council was requested to widen and extend the GATE eligibility for admission to other circuit Programmes of Engineering such as CS/IT/ELEC/ETC/INSTRU/BIOMEDICAL from the Academic year 2020-21.

Currently, the student intake of B.Tech Instrumentation and Control Engineering programme is only 30. Since the infrastructure is available and because of the popularity of the programme and industry demand, it was proposed to increase the intake from 30 to 40

and an additional 20 intake for five years Integrated Programme in Instrumentation and Control Engineering.

Director also elaborated about AICTE scheme of 5 years Integrated B.Tech/M.Tech programme and suggested starting the Integrated programme in every Programme of Engineering. But many Council members opined that since Engineering admissions are plunging, it is better to start an integrated programme with only a few programs like B.Tech Instrumentation and Control Engineering.

R-AC-2/06/2019: The members RESOLVED to APPROVE the update of admission eligibility criteria for the M.Tech Biomedical Instrumentation to eligible GATE in CS/IT/ELEC/ETC/INSTRU/BIOMEDICAL and the increase in intake of B.Tech Instrumentation and Control Engineering programme from 30 to 40 and additional 20 intake in 5 years Integrated Programme of Instrumentation and Control Engineering from the Academic Year 2020-21.

Dean Academics thanked all the members for attending the meeting and declared the meeting concluded. The meeting ended with the vote of thanks to the Chair.

Prof. Jibi Abraham
Member Secretary

Annexure 1: The Power Point Presentations of Analyses on the Admission Quality of Students at COEP for AY 2019-20 presented by the Respective Admission Chairs:

FY B.Tech/B.Planning Admissions

Quality of FY Engineering admitted students 2019

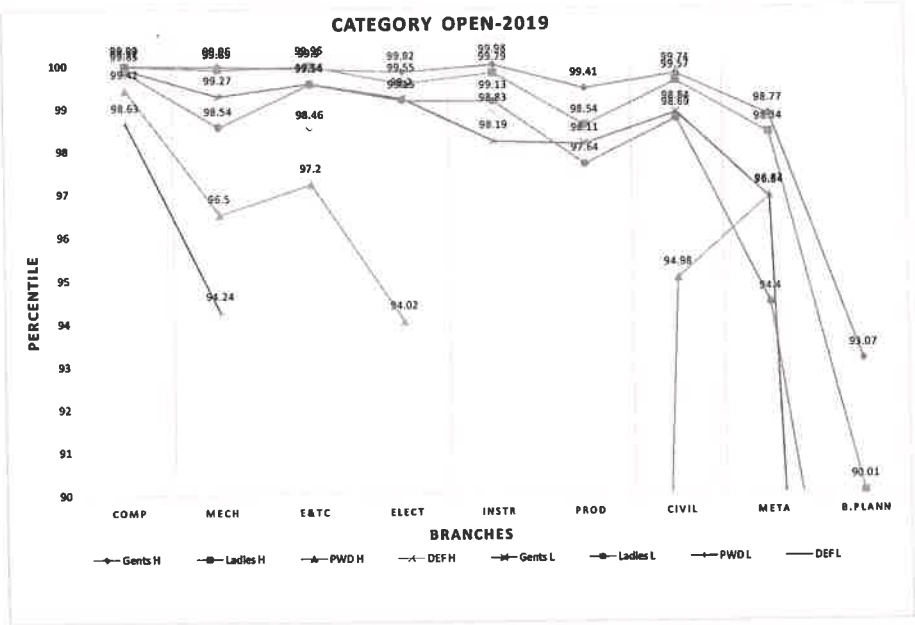
Course Name		OPEN				SC			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest merit no.	99.9996379 (1) / 99.9178031 (138)	99.985516 (32)/ 99.8533 (256)	99.4249835 (1132)/ 98.6334306 (2886)	-	99.8305367 (301) / 99.3725 (1255)	99.2272763 (1566) / 98.9118863 (2273)	82.5040012(30014)	-
Mechanical Engineering	Highest /lowest merit no.	99.9684972 (62)/99.270004 (1472)	99.8931802 (183)/98.54254 33 (3081)	96.5068111 (7547) /94.24766 26 (12212)	-	99.2334321 (1551)/96.9648 69 (6566)	98.3155059 (3594)/96.726 6065 (7078)	98.247793 (3746)	-
Electronics and Telecommunication Engg	Highest /lowest merit no.	99.90694 (159)/ 99.5676513 (821)	99.9663246 (65)/ 99.5465463 (860)	97.2002346 (6071)	98.462881 (3254)	99.1986704 (1634)/ 98.2601044 (3722)	98.3944439 (3411)/ 97.2788106 (5905)	-	-
Electrical Engineering	Highest /lowest merit no.	99.8276399 (308)/99.220758 5 (1582)	99.5589609 (842)/99.15883 92 (1727)	94.0278673 (12652)/8.431885 2 (82783)	-	99.0132746 (2053)/98.0051 853 (4296)	96.9345 (6630)/96.758 4714 (7010)	-	92.2238798(16083)
Instrumentation and Control Engineering	Higest /lowest merit no.	99.989137 (24)/ 98.1952883 (3864)	99.7943266 (358)/ 99.1360269 (1781)	-	98.8376556 (2439)	98.5606483 (3041) /95.8372863 (8944)	94.693409 (11331)	-	-
Production Engineering[Sandwich]	Higest /lowest merit no.	99.4177415 (1151)/ 98.1120051 (4055)	98.5443538 (3078)/ 97.6409116 (5119)	44.9950392 (56405)	-	96.617614 (7309)/ 94.345792 (12011)	92.0765047 (16363)/87.18 85026 (24271)	95.141328 (10408)	-
Civil Engineering	Higest /lowest merit no.	99.7497882 (439) / 98.8434492 (2427)	99.5796007 (793)/ 98.695712 (2738)	94.9816415 (10742)	-	99.3377172 (1327) / 96.7153813 (7104)	98.4791756(3219) /96.1175525(8367)	96.7888878 (6949)	-
Metallurgical Engineering	Higest /lowest merit no.	98.771 (2585)/96.84103 04 (6831)	98.3484571(3521) /94.4080734 (11890)	96.8768784 (6750)/ 84.7062998 (27507)	-	95.9426577 (8742)/ 93.5303404 (13641)	95.7290181 (9172)/87.393 0897 (23972)	-	-
B.Planning	Higest /lowest merit no.	93.0780762 (3) /47.1495405(27)	90.0125287 (8) /80.8575277 (16)	-	-	80.8980830 (31691) / 14.3254419 (49)	2.9594519 (54)	-	-

Course Name		ST				VJ/DT			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest merit no.	98.7536482 (2618) / 97.5587147 (5289)	95.947365 (8732)/ 90.5871831 (19001)	24.8415808 (68888)	-	99.5875669 (775)/ 99.5477358 (865)	98.6757964 (2785)	-	-
Mechanical Engineering	Highest /lowest merit no.	97.0564805 (6374)/94.0293157 (12648)	92.9484441 (14745)/91.1227305 (18037)	-	-	98.7496651 (2627)	98.0022885 (4301)	-	98.4038585 (3388)
Electronics and Telecommunication Engg	Higest /lowest merit no.	93.9464946 (12805)/ 91.7140416 (17016)	87.3974349 (23964)	-	-	98.9126105 (2271)	96.0020422 (8616)	-	-
Electrical Engineering	Higest /lowest merit no.	94.2965463 (12114)/92.954 5998 (14736)	94.8893057 (10935)	-	-	98.4990911 (3181)/98.4856 934 (3206)	-	-	-
Instrumentation and Control Engineering	Higest /lowest merit no.	89.1282779 (21428)	-	55.5546 (50491)	-	98.710196 (2704)	-	-	-
Production Engineering[Sandwich]	Higest /lowest merit no.	87.870701 (23 307)/ 77.2785209 (35180)	85.8335204 (26098)	-	-	97.3128481 (5830)	77.7919802 (34734)	-	-
Civil Engineering	Higest /lowest merit no.	92.718872 (15174) /89.9368496 (20113)	96.699811 (7135)	-	-	97.1180377 (6247)	94.575002 (11563)	-	-
Metallurgical Engineering	Higest /lowest merit no.	81.5762983 (31013)/57.395 1898 (49410)	16.2681 (77066)	-	-	96.6936553 (7147)	93.3739128 (13947)	-	-
B.Planning	Higest /lowest merit no.	-	-	-	-	8.9500518 (52)	56.1854102(5 0130)	-	-

Course Name		NTB				NTC			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest merit no.	99.931925 (116)/ 99.8823172 (203)	99.7186475 (500)	-	-	99.9558237 (82)/ 99.8595048 (245)	99.2917303 (1428)	-	-
Mechanical Engineering	Highest /lowest merit no.	99.6053098 (740)/99.5654 787 (826)	98.9151452 (2265)	-	-	99.6295706 (688)/99.38261 77 (1229)	98.1800801 (3896)	-	-
Electronics and Telecommunication Engg	Highest /lowest merit no.	99.6958351 (545)	-	36.4711804 (60986)	-	99.4210004 (1142)	98.3846672 (3435)	97.2719307 (5922)	-
Electrical Engineering	Highest /lowest merit no.	99.1646329(1 713)	-	-	-	97.5145384 (5381)	99.0009632 (2080)	-	-
Instrumentation and Control Engineering	Higest /lowest merit no.	99.1675297 (1706)	-	-		97.7473693 (4879)		-	-
Production Engineering[Sandwich]	Higest /lowest merit no.	98.3690968 (3468)	95.2869 (10101)	-	-	97.785752 (4802)	97.7050035 (4971)	-	-
Civil Engineering	Higest /lowest merit no.	98.9484585(2 190)	-	94.9816415 (10742)	-	99.2786947 (1456)	97.7325232 (4914)	-	-
Metallurgical Engineering	Higest /lowest merit no.	97.7147802(4 948)	-	-	-	98.2789337 (3674)/96.1704 192 (8261)	-	-	-
B.Planning	Highest /lowest merit no.	-	26.7791835 (37)	-	-	30.9509498 (35) / 8.6064179 (82670A)	25.1739896(3 9)	-	-

Course Name		NTD				OBC			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest merit no.	99.7157507 (507) / 99.670488 (600)	-	-	-	99.9601689 (74) / 99.8453828 (271)	99.8797824 (210) / 99.8091727 (336)	97.6687934 (5052)	99.0549162 (1962)
Mechanical Engineering	Highest /lowest merit no.	99.5397696(883)	98.4056691 (3384)	-	-	99.6534693 (635)/99.3677716 (1266)	99.4623 (1048)/98.3785115 (3448)	95.4071102 (9836)	-
Electronics and Telecommunication Engg	Highest /lowest merit no.	99.0951095 (1870)	-	-	-	99.8308988 (300)/ 99.3876871 (1217)	99.6853342 (569)/ 99.559323 (841)	-	-
Electrical Engineering	Highest /lowest merit no.	98.0700014(4150)	98.1862358 (3881)	-	-	99.5962573 (759)/99.0317418 (2016)	99.115025 (1824)/98.7416988 (2643)	97.764750(4841)	-
Instrumentation and Control Engineering	Higest /lowest merit no.	-	-	-	-	99.4354845 (1108)/ 99.2522613 (1510)	98.9122484 (2272)/ 98.688321 (2755)	-	-
Production Engineering[Sandwich]	Higest /lowest merit no.	98.5385601 (3090)	-	-	-	99.1425447 (1768)/ 98.3499055 (3518)	98.1630613 (3932)/ 97.5858723 (5230)	98.8858151 (2326)	-
Civil Engineering	Higest /lowest merit no.	99.2866609(1439)	-	-	-	99.3344583 (1334)/98.7503893 (2625)	98.7876857(2544)/ 97.0615499 (6365)	90.2482565 (19567)	-
Metallurgical Engineering	Higest /lowest merit no.	97.8310147(4695)	94.0347472 (12638)	-	-	98.3752 (2657)/94.5619664 (11589)	98.1315586 (4005)/92.1329925 (16261)	-	-
B.Planning	Higest /lowest merit no.	41.7241804 (29)	-	-	-	98.0591383 (4173) / 6.4243969 (83974A)	86.7163228 (24901)/ 20.3638391 (45)	-	-

Course Name		SEBC				EWS			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest merit no.	99.9598068 (76) / 99.8877487 (197)	99.7722384 (396) / 99.5542536 (849)	97.9798382 (4352)	-	99.9511164 (89) / 99.7331315 (473)	--	--	--
Mechanical Engineering	Highest /lowest merit no.	99.6679533(607)/99.5028353 (957)	99.1939631 (1645)/99.1190081 (1813)	73.9862981 (37981)	-	99.7418219 (456)/99.2823157 (1449)	99.5437527(874)	-	-
Electronics and Telecommunication Engg	Highest /lowest merit no.	99.7302347 (480) / 99.2251037 (1572)	99.6665049 (611)/ 99.4706083 (1028)	-	-	99.5564262 (845)/ 99.3775483 (1241)	99.7215443 (495)/ 99.4137584 (1159)	-	-
Electrical Engineering	Highest /lowest merit no.	99.5165951(929)/99.4141 (1158)	99.0925748 (1877)/98.7406125 (2644)	-	-	99.2301732 (1558)/99.1552182 (1736)	99.3065765 (1391)/99.0990926 (1862)	-	-
Instrumentation and Control Engineering	Higest /lowest merit no.	99.0715729 (1922)/ 99.0031358 (2074)	-	99.064693 (1938)	-	98.7540103 (2617) / 98.5657177 (3030)	98.3173164 (3589)	-	-
Production Engineering[Sandwich]	Highest /lowest merit no.	98.3763389 (3453)/ 98.1221439 (4030)	97.7158665 (4945)/ 96.4130269 (7750)	-	-	98.4085659 (3377)/ 97.344713 (5761)	-	-	-
Civil Engineering	Higest /lowest merit no.	99.0534678 (1965)/ 98.8112222 (2491)	98.0873822 (4109)/ 97.8444124 (4664)	-	-	99.0824359 (1898)/98.1257649 (4021)	98.4607084(3259)/ 98.1384385 (3990)	-	-
Metallurgical Engineering	Higest /lowest merit no.	97.7556977(4862)/97.2889 (5880)	97.1846643 (6104)/96.086 (8442)	96.7696965 (6987)	-	98.0841233 (4116)/96.19 (8223)	-	-	-
B.Planning	Higest /lowest merit no.	94.0434376(12622A) /20.829139							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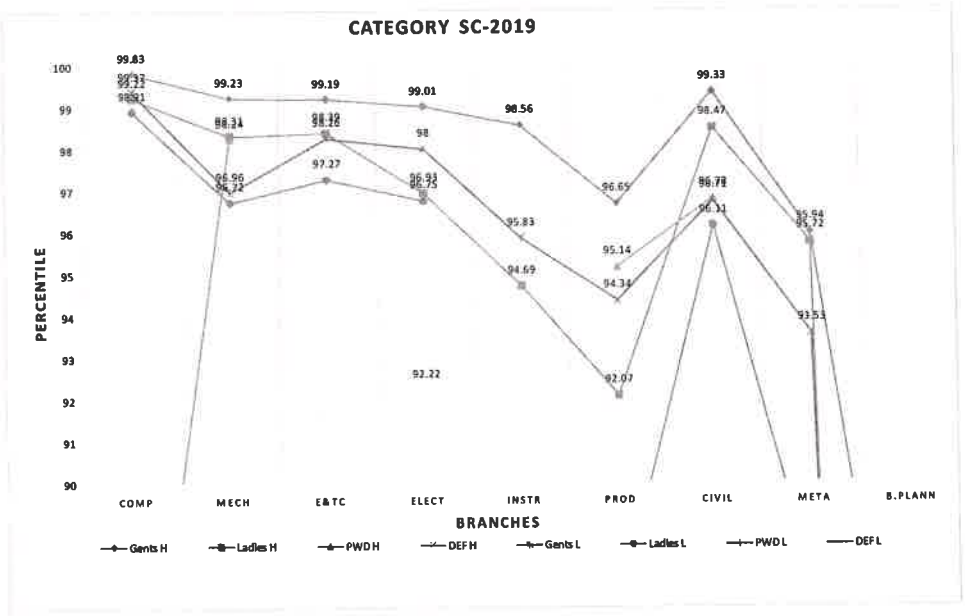
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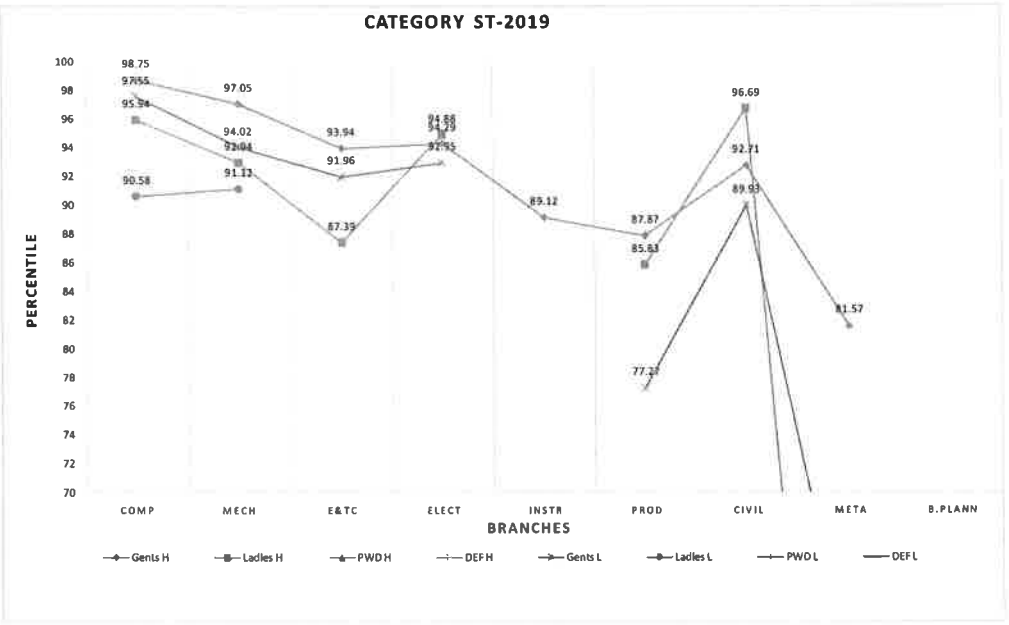
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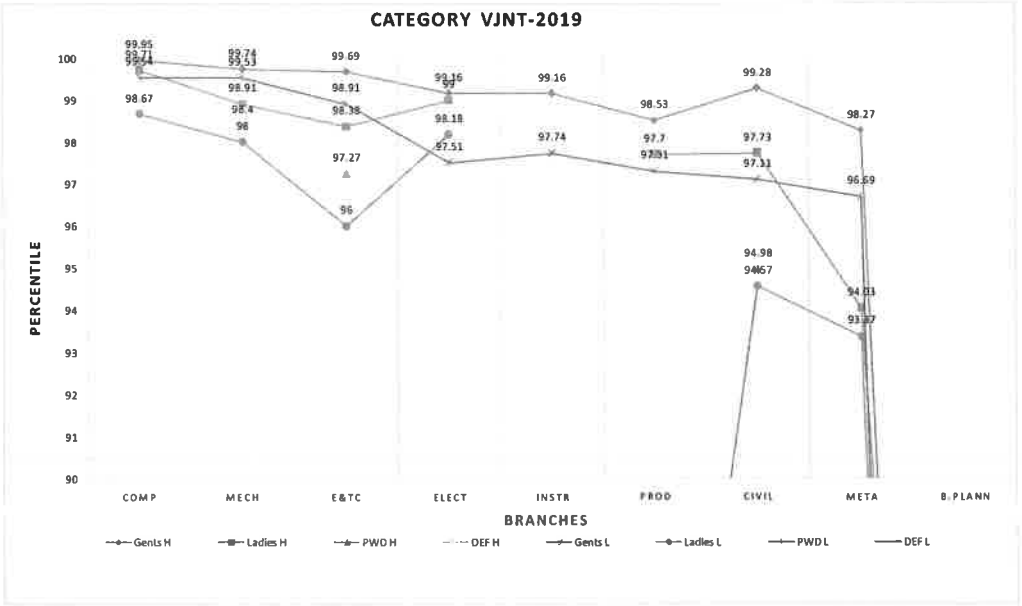
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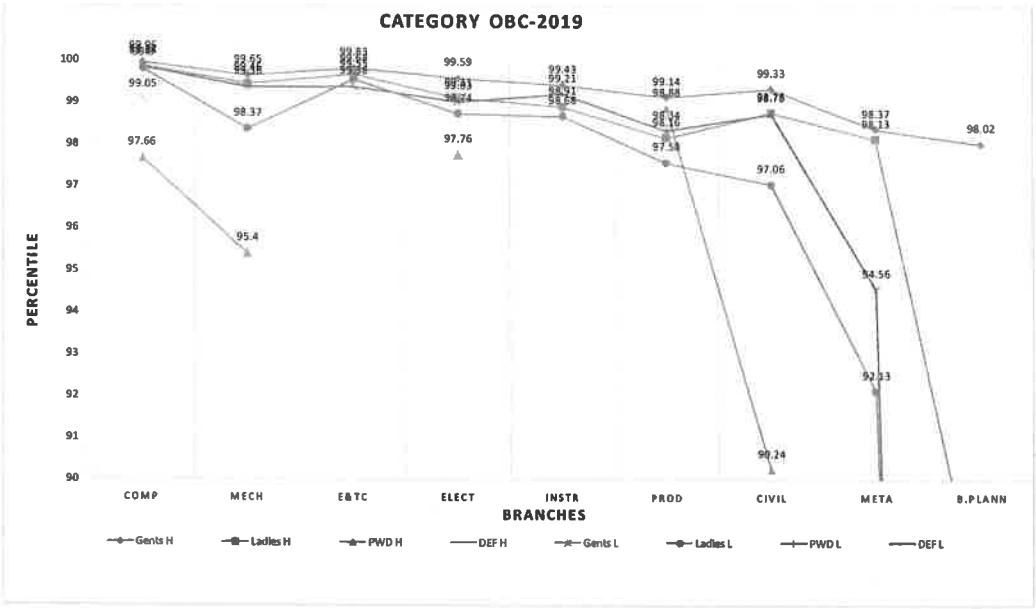
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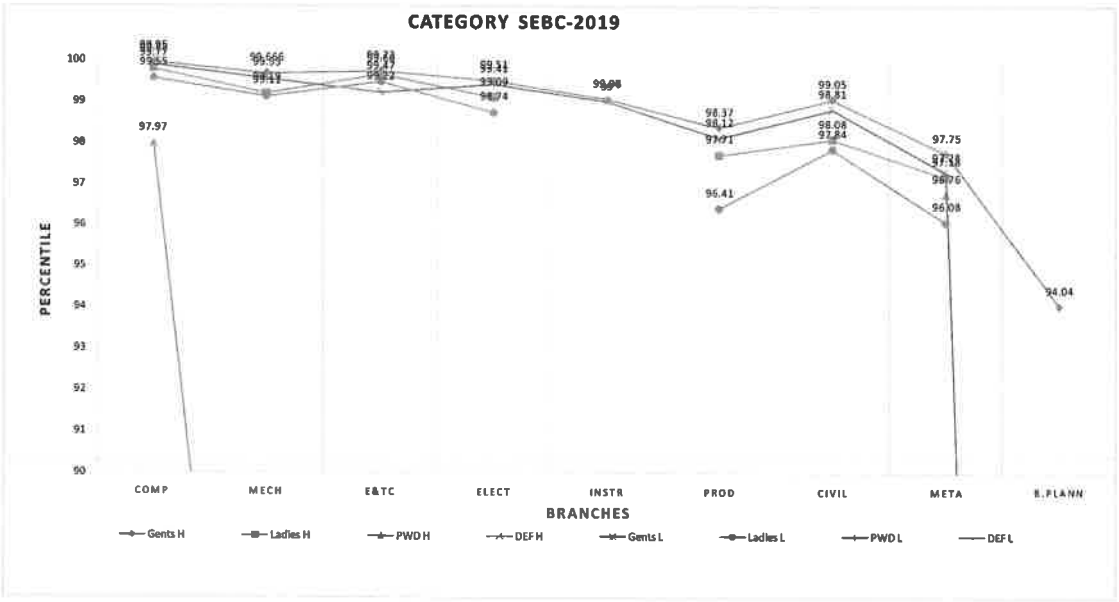
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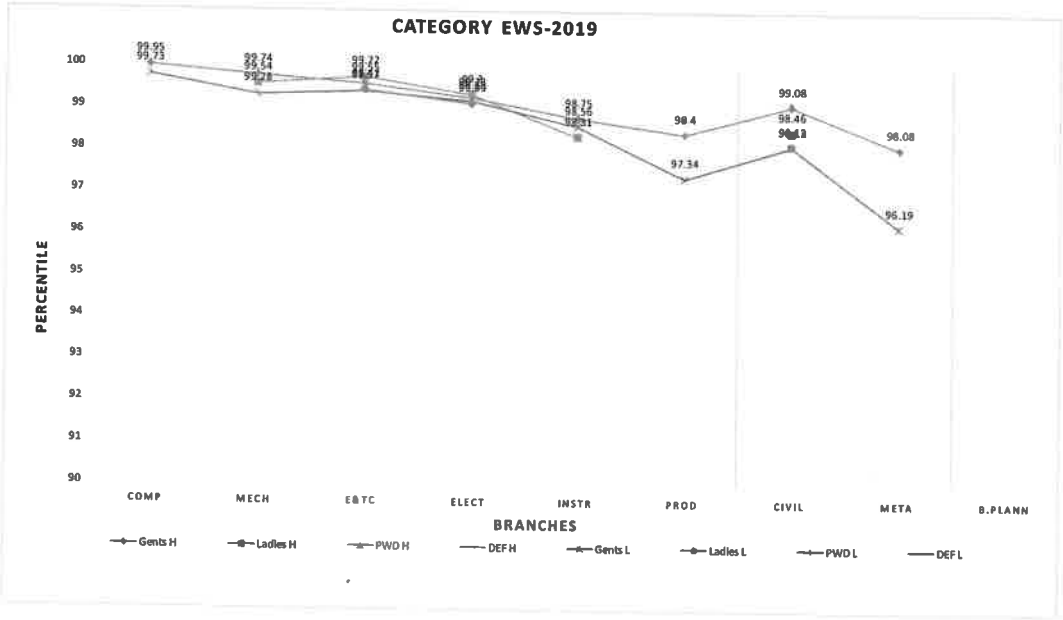


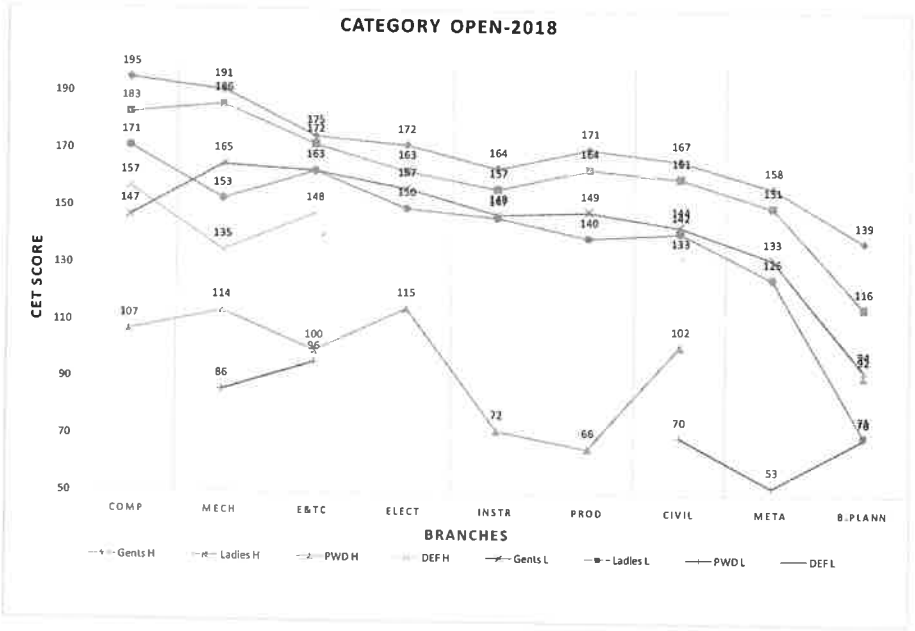
FY Engineering admitted students 2018

Course Name		OPEN				SC			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest CET score	195/174	183/171	107	157	165/143	160/132	-	-
Mechanical Engineering	Highest /lowest CET Score	191(5)/165(75 1)	186 (32)/153 (1807)	114 (10864)/86(27751)	135(4892)	155 (1586)/135 (4778)	128(6450)/109 (12850)	-	-
Electronics and Telecommunication Engg	Highest /lowest CET Score	175(214)/163(872)	172(335)/163(8 79)	100(17237)/96(19 695)	148(2423)	137(4391)/134(4958)	139(3984)/125 (7389)	-	-
Electrical Engineering	Highest /lowest CET Score	172(342)/ 157(1414)	163(836)/ 150(2177)	115(10575)	-	151(2031)/ 133(5243)	141(3548)/ 123(7849)	107(13849)	-
Instrumentation and Control Engineering	Highest /lowest CET Score	164(820)/ 148 (2464)	157 (1374)/ 147 (2639)	72(44837)	-	130 (5917)/ 127 (6578)	130(5876) / 107(13871)	-	-
Production Engineering[Sandwich]	Highest /lowest CET Score	171(350)/149(2390)	164(777)/140(3 749)	66(54253)	-	125(7189)/106(14409)	108(13513)/99 (17783)	-	-
Civil Engineering	Highest /lowest CET Score	167(550)/144(3086)	161(1021)/142(3438)	102(16056)/70(47 402)	133(5349)	130(6048)/130(5841)	126(6898)/118 (9244)	-	-
Metallurgical Engineering	Highest /lowest CET Score	158(1323)/13 3(5276)	151(2103)/126(6992)	- (3648)/53(84252)	-	122(8161)/102(16427)	115(10408)/10 4(15302)	-	-
B.Planning	Highest /lowest CET Score	139/94	116/71	92/70		92/82	71/66		

Course Name		ST				VJ/DT			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest CET Score	133/111	103/82	-	-	168/161	148	-	-
Mechanical Engineering	Highest /lowest CET Score	126 (6916)/101(1676 0)	112(11514)/87(1 6776)	-	-	144(3114)/143(3273)	127 (6761)	-	-
Electronics and Telecommunication Engg	Highest /lowest CET Score	128(6446)/104(1 5224)	145(2950)	-	-	135(4790)	127(6607)	-	-
Electrical Engineering	Highest /lowest CET Score	123(7668)/ 112(5243)	111(11987)	-	-	133(5196)	141(3696)	-	-
Instrumentation and Control Engineering	Highest /lowest CET Score	92(22741)/ 89(24722)	-	-		132(5419)	-	-	-
Production Engineering[Sandwich]	Highest /lowest CET Score	93(22152)/79(34 033)	70(48354)	-	-	120(8601)/118(9304)	-	-	-
Civil Engineering	Highest /lowest CET Score	132(5450)/110(1 2637)	100(17645)	-	-	140(3722)/124(7555)	-	-	-
Metallurgical Engineering	Highest /lowest CET Score	79(34298)/78(36 222)	103(15681)	-	-	107(13853)	86(27573)	-	-
B.Planning	Highest /lowest CET Score		52				92		

Course Name		NTB				NTC			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest CET Score	151/147	147	-	-	164/159	158/157	-	-
Mechanical Engineering	Highest /lowest CET Score	158(1267)/158(1283)	136(4598)	-	-	166(642)/160(1081)	126(6929)/119(8992)	-	-
Electronics and Telecommunication Engg	Highest /lowest CET Score	148(2490)	-	-	-	152(2006)	132(5493)	-	-
Electrical Engineering	Highest /lowest CET Score	150(2206)	124(7586)	-	-	159(1239)/151(2037)	-	136 (4648)	144(3043)
Instrumentation and Control Engineering	Highest /lowest CET Score	137(4477)	-	-	-	131(5653)	-	-	-
Production Engineering[Sandwich]	Highest /lowest CET Score	133(5127)	82(30943)	-	-	145(2915)/135(4881)	-	-	-
Civil Engineering	Highest /lowest CET Score	142(3440)	111(12065)	-	-	144(3092)/129(6175)	-	-	-
Metallurgical Engineering	Highest /lowest CET Score	116(10245)	-	-	-	129(6294)	105(14743)	-	-
B.Planning	Highest /lowest CET Score	51/				76/66			

Course Name		NTD				OBC			
		G	L	PWD	DEF	G	L	PWD	DEF
Computer Engineering	Highest /lowest CET Score	163/157	154	-	-	174/166	169/159	147/109	-
Mechanical Engineering	Highest /lowest CET Score	162(968)/151(2043)	148(2422)	-	-	165(678)/154(1660)	153(1899)/145(2910)	94(21061)	-
Electronics and Telecommunication Engg	Highest /lowest CET Score	148(2411)	155(1553)	-	-	165(717)/157(1421)	157(1424)/155(1550)	93(21730)	-
Electrical Engineering	Highest /lowest CET Score	153(1767)	-	-	-	161(1006)/155(1640)	151(2026)/147(2619)	-	-
Instrumentation and Control Engineering	Highest /lowest CET Score	-	-	-	-	155(1620)/146(2749)	152(2000)/144(3054)	89(24748)	-
Production Engineering[Sandwich]	Highest /lowest CET Score	-	134(4984)	-	-	150(2207)/142(3402)	141(3635)/139(3894)	69(48763)/67(53724)	-
Civil Engineering	Highest /lowest CET Score	149(2383)	-	-	-	151(2045)/143(3325)	147(2628)/144(3066)	87(31692)	-
Metallurgical Engineering	Highest /lowest CET Score	138(4151)	-	-	-	139(4043)114(10796)	134(5104)/119(9065)	-	-
B.Planning	Highest /lowest CET Score	78				75/50	69/58		


CATEGORY OPEN-2018
CET SCORE
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110
90
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COMP
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BRANCHES
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PWD L
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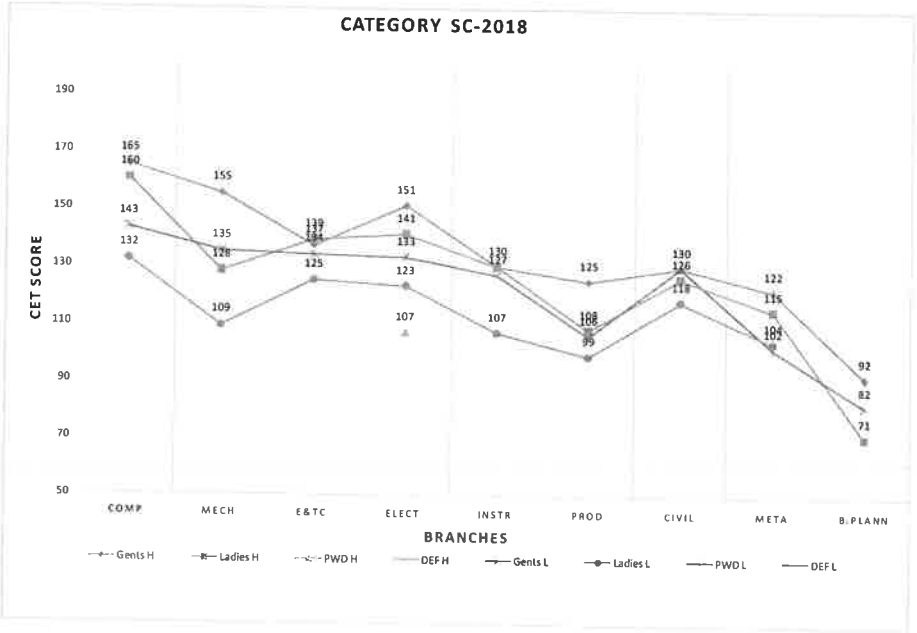
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CET SCORE
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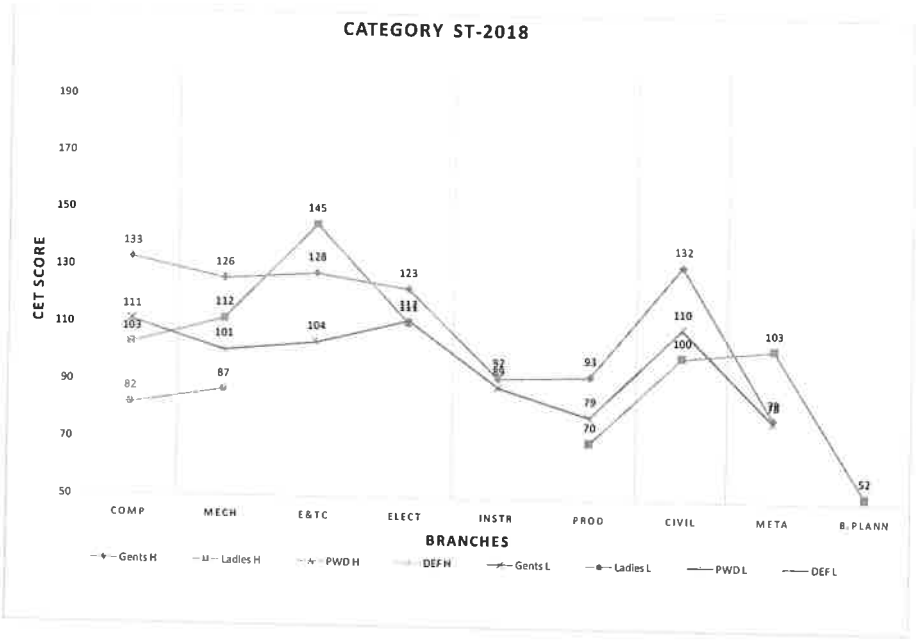
Gents L
Ladies L
PWD L
DEF L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CET SCORE
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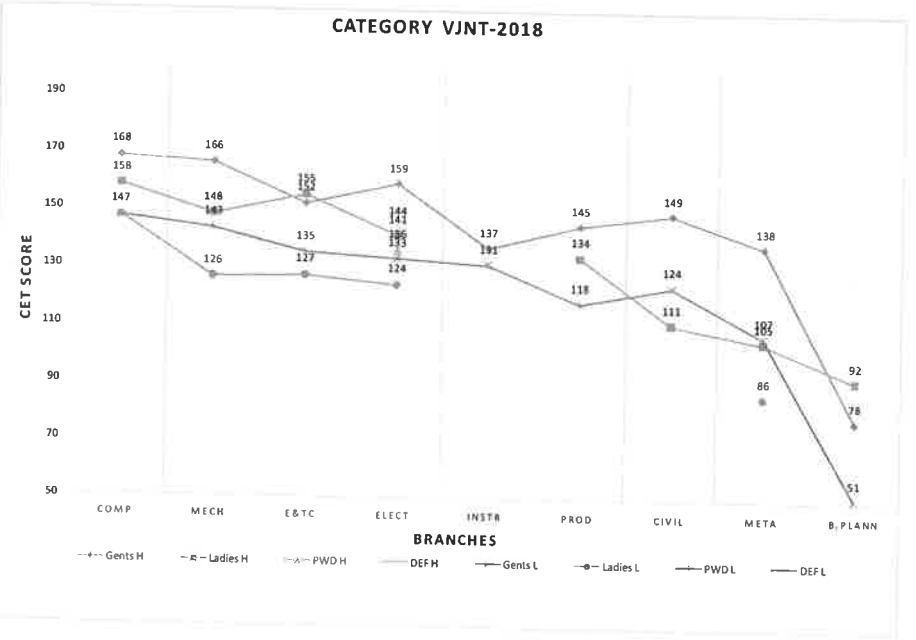
DEF H
Gents L
Ladies L
PWD L
DEF L


CATEGORY VJNT-2018
CET SCORE
BRANCHES
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Gents H
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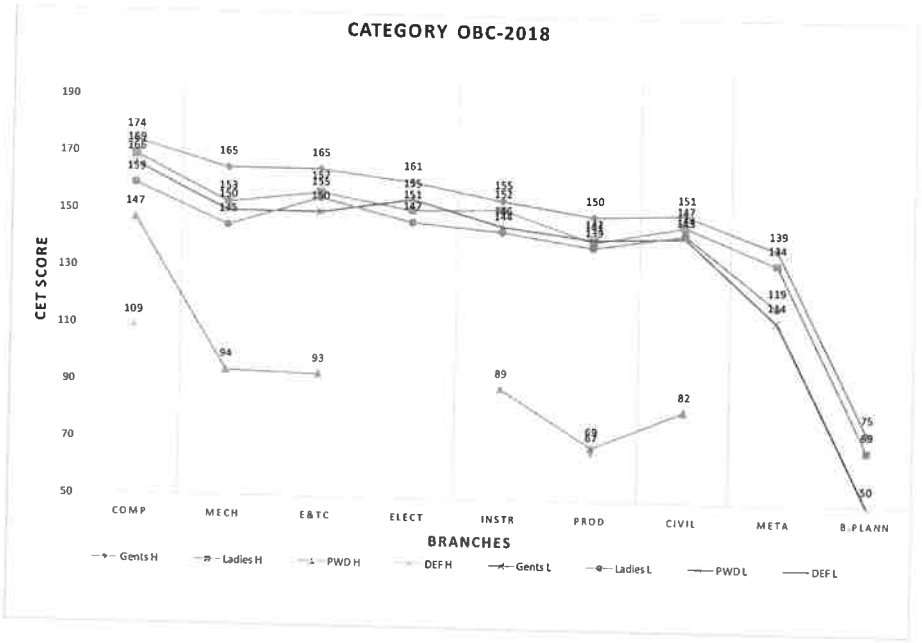
CATEGORY OBC-2018
CET SCORE
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BRANCHES
Gents H
Ladies H
PWD H
DEF H
Gents L
Ladies L
PWD L
DEF L

FY M.Tech./M.Planning Admissions

MTech and M. Planning admission at COEP
YEAR 2019-2020

Schedule :07 July 19 to 20 August 29

07 July to 12 july FC 210 Applications

ARC applications processed 628

First round: 155

24 July to 27 July 2019 Reporting and admission

Second round: 113

02 August to 08 August 2019 Reporting and admission

Third round:113

13 August to 17 August 2019 Reporting and admission

Spot round:

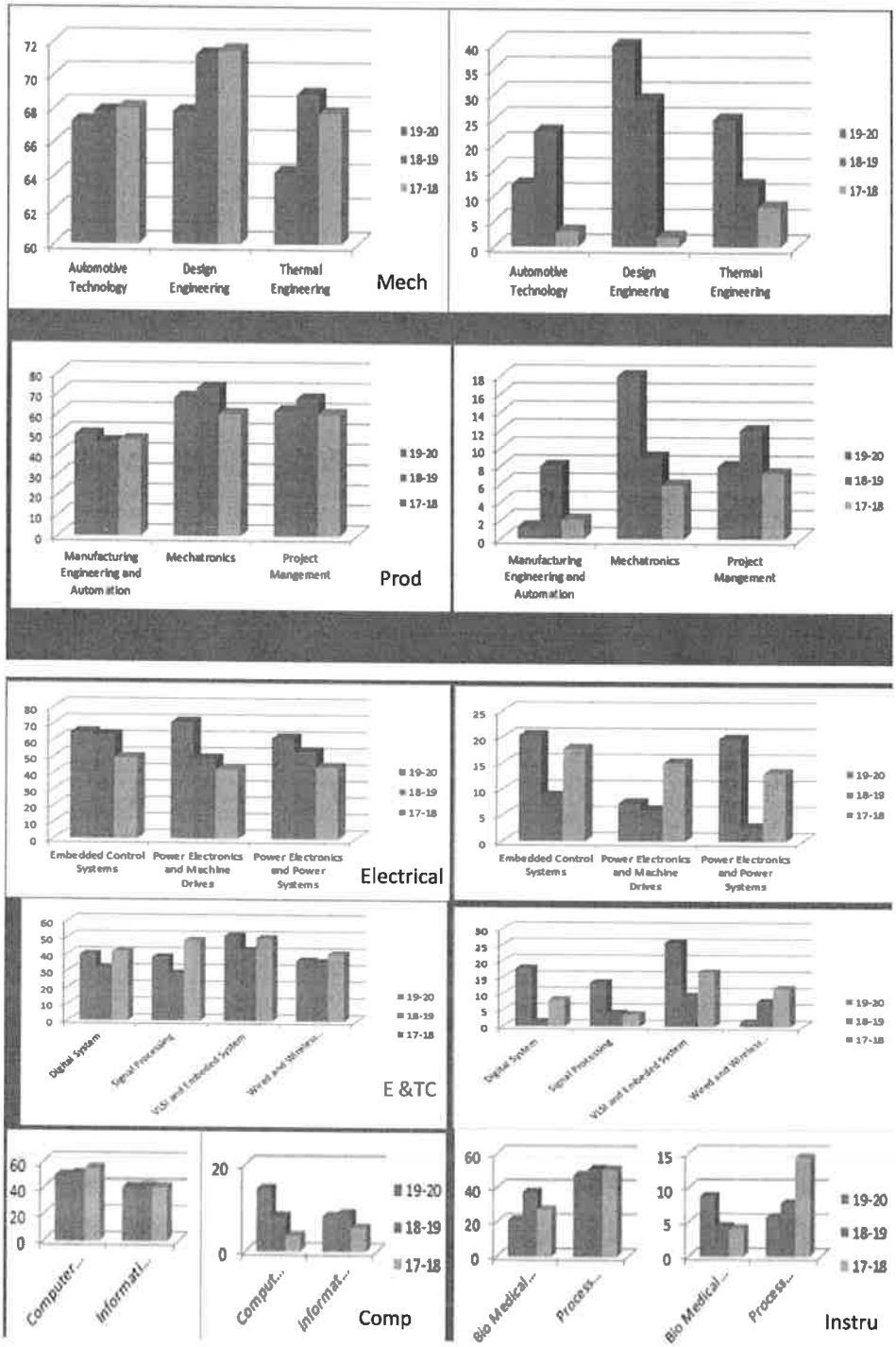
19 Mplanning 32 seats & 20 August 2019 45 seats

Total Seats =458 Vacant 48

Sr. No	Course Name	Intake	19-20	18-19	17-18
1	Automotive Technology	36+4	39	36	36
2	Bio Medical Instrumentation	18+2	4	11	18
3	Computer Engineering	18+2	19	18	18
4	Construction Management	18+1	19	18	19
5	Design Engineering	18+2	20	18	18
6	Digital System	18+2	20	17	18
7	Embedded Control Systems	18+2	18	16	18
8	Environmental and Water Resources Engineering	18+2	19	18	17
9	Geo Technical Engineering	18+2	20	18	18
10	Information Security	24+2	24	24	24
11	Manufacturing Engineering and Automation	18+2	11	17	18
12	Materials Engineering	18+2	12	18	18
13	Mechatronics	18+2	19	18	18
14	Power Electronics and Machine Drives	24+2	16	22	24
15	Power Electronics and Power Systems	18+2	20	18	18
16	Process Instrumentation	18+2	19	18	18
17	Process Metallurgy	18+2	12	17	18
18	Project Mangement	18+2	19	16	18
19	Signal Processing	18+1	18	18	18
20	Structural Engineering	18+2	21	18	18
21	Thermal Engineering	18+2	20	18	19
22	Town and Country Planning (M. Planning)	31+3	32	30	31
23	VLSI and Embeded System	18+2	19	18	18
24	Wired and Wireless Communication	18+1	18	18	18
		475+46=52	458	458	476

Sr. No.	Course Name	Highest Marks			Average
		19-20	18-19	17-18	
1	Automotive Technology	67.22	67.82	68.03	67.69
2	Bio Medical Instrumentation	21	37.33	27.05	28.46
3	Computer Engineering	49.33	51	55.22	51.85
4	Construction Management	61.61	63.1	48.78	57.83
5	Design Engineering	67.83	71.22	71.48	70.18
6	Digital System	39.67	31.26	41.28	37.40
7	Embedded Control Systems	64.67	63	49.15	58.94
8	Engineering	39.56	58.56	43.02	47.05
9	Geo Technical Engineering	45.49	47.72	48.79	47.33
10	Information Security	40.67	41.33	40.67	40.89
11	Automation	49.67	46	47.05	47.57
12	Materials Engineering	47.06	58.41	58.36	54.61
13	Mechatronics	68.24	72.77	59.89	66.97
14	Power Electronics and Machine Drives	71	48.67	42.08	53.92
15	Power Electronics and Power Systems	61.33	53	43.63	52.65
16	Process Instrumentation	47.33	51	50.68	49.67
17	Process Metallurgy	47.56	51.33	51.33	50.07
18	Project Mangement	61.33	67.34	59.89	62.85
19	Signal Processing	38	28.33	48.04	38.12
20	Structural Engineering	51.41	60.59	55.63	55.88
21	Thermal Engineering	64.23	68.86	67.72	66.94
22	Planning)	54	49	46.98	49.99
23	VLSI and Embeded System	51	42.33	49.49	47.61
24	Wired and Wireless Communication	36.26	35.33	40.17	37.25

Sr. No.	Course Name	Lowest marks			Average
		19-20	18-19	17-18	
1	Automotive Technology	12.18	22.66	3.01	37.85
2	Bio Medical Instrumentation	8.67	4.33	4.01	17.01
3	Computer Engineering	14.33	8	3.59	25.92
4	Construction Management	17.96	8.69	10.8	37.45
5	Design Engineering	39.71	28.92	1.88	70.51
6	Digital System	17.67	1.33	8.04	27.04
7	Embedded Control Systems	20.33	8.67	17.76	46.76
8	Engineering	13.08	17.92	20.35	51.35
9	Geo Technical Engineering	14.82	4.37	0.39	19.58
10	Information Security	8	8.67	5.44	22.11
11	Automation	1.33	8	2.08	11.41
12	Materials Engineering	18.29	8.87	14.81	41.97
13	Mechatronics	18	9	5.89	32.89
14	Power Electronics and Machine Drives	7.33	6	15.05	28.38
15	Power Electronics and Power Systems	19.67	2.67	13.1	35.44
16	Process Instrumentation	5.67	7.67	14.42	27.76
17	Process Metallurgy	11.58	11.33	12.71	35.62
18	Project Mangement	8	12	7.24	27.24
19	Signal Processing	13.33	4	3.66	20.99
20	Structural Engineering	14.82	6.07	18.02	38.91
21	Thermal Engineering	24.99	12.11	7.78	44.88
22	Planning)	16.33	4.37	4.66	25.36
23	VLSI and Embeded System	25.67	9.33	16.58	51.58
24	Wired and Wireless Communication	1.33	7.67	11.63	20.63


72
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68
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64
62
60
Automotive Technology
Design Engineering
Thermal Engineering
19-20
18-19
17-18
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Automotive Technology
Design Engineering
Thermal Engineering
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Manufacturing Engineering and Automation
Mechatronics
Project Mangement
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Embedded Control Systems
Power Electronics and Machine Drives
Power Electronics and Power Systems
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Embedded Control Systems
Power Electronics and Machine Drives
Power Electronics and Power Systems
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Digital System
Signal Processing
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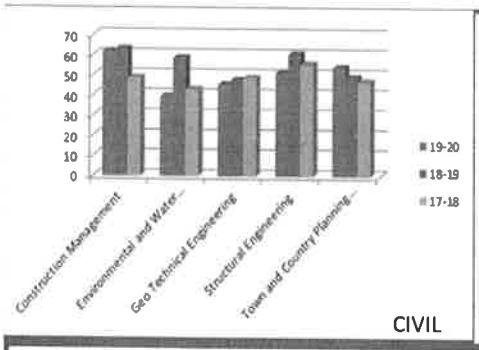
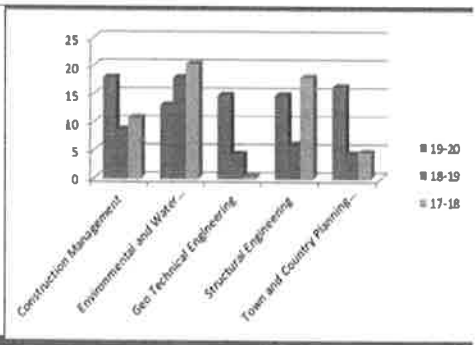
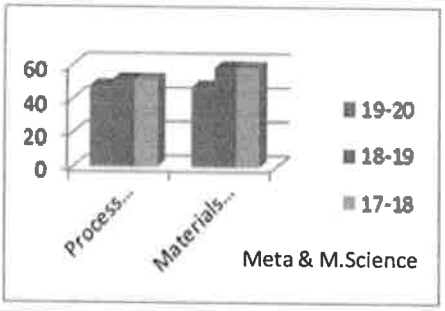
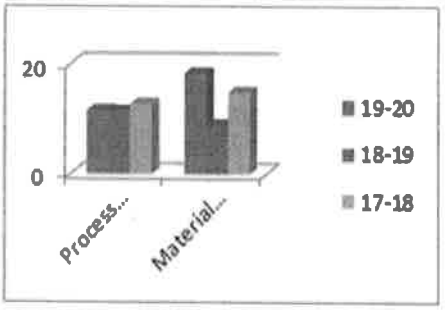




CIVIL



Meta & M.Science

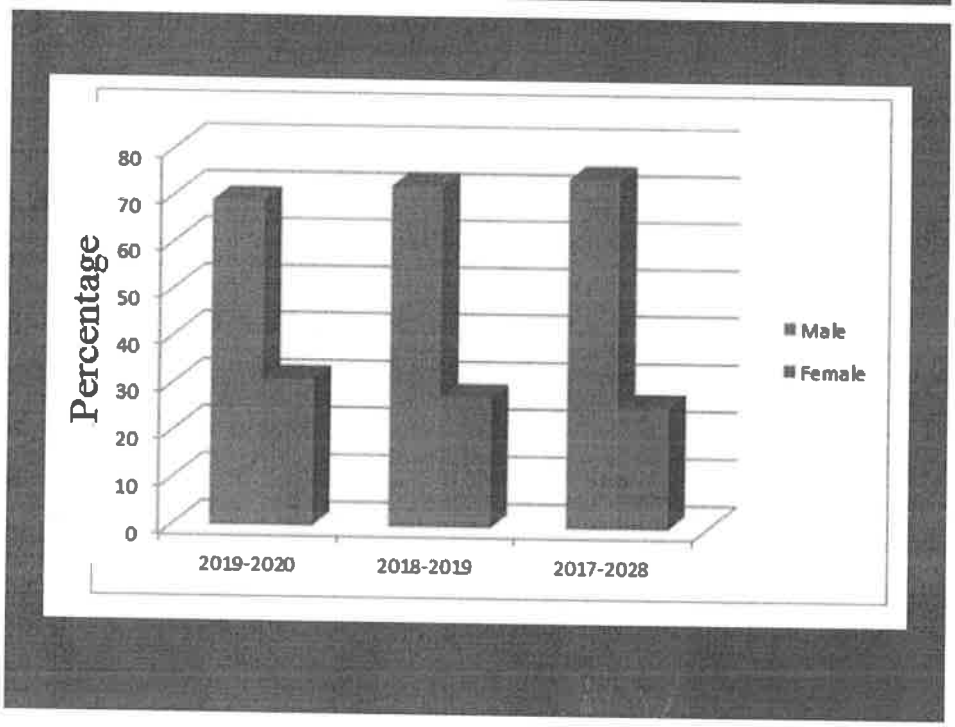


MALE contribution

Sr. No.	Course Name	2019-2020			2018-2019			2017-2018		
		Male	Total	%	Male	Total	%	Male	Total	%
1	Automotive Technology	38	39	97.44	33	36	91.67	33	36	91.67
2	Bio Medical Instrumentation	1	4	25	5	11	45.45	6	18	33.33
3	Computer Engineering	10	19	52.63	10	18	55.56	14	18	77.78
4	Construction Management	15	19	78.95	14	18	77.78	16	19	84.21
5	Design Engineering	18	20	90	17	18	94.44	18	18	100
6	Digital System	12	20	60	10	17	58.82	13	18	72.22
7	Embedded Control Systems	13	18	72.22	11	16	68.75	10	18	55.56
8	Environmental and Water Resources	13	19	68.42	9	18	50	11	17	64.71
9	Geo Technical Engineering	14	20	70	15	18	83.33	12	18	66.67
10	Information Security	14	24	58.33	15	24	62.5	11	24	45.83
11	Manufacturing Engineering and	9	11	81.82	17	17	100	16	18	88.89
12	Materials Engineering	10	12	83.33	15	18	83.33	17	18	94.44
13	Mechatronics	17	19	89.47	13	18	72.22	17	18	94.44
14	Power Electronics and Machine Drives	11	16	68.75	17	22	77.27	19	24	79.17
15	Power Electronics and Power Systems	12	20	60	15	18	83.33	14	18	77.78
16	Process Instrumentation	12	19	63.16	12	18	66.67	15	18	83.33
17	Process Metallurgy	11	12	91.67	17	17	100	15	18	83.33
18	Project Mangement	14	19	73.68	13	16	81.25	17	18	94.44
19	Signal Processing	9	18	50	10	18	55.56	3	18	16.67
20	Structural Engineering	15	21	71.43	15	18	83.33	13	18	72.22
21	Thermal Engineering	18	20	90	15	18	83.33	19	19	100
22	Town and Country Planning (M.	15	32	46.88	11	30	36.67	24	31	77.42
23	VLSI and Embeded System	12	19	63.16	14	18	77.78	13	18	72.22
24	Wired and Wireless Communication	9	18	50	9	18	50	10	18	55.56
		322	458	69.01	332	458	72.46	356	476	74.25

FEMALE CONTRIBUTION

Sr. No.	Course Name	2019-2020			2018-2019			2017-2028		
		Adm	Total	%	Adm	Total	%	17-18	Total	%
1	Automotive Technology	1	39	2.56	3	36	8.33	3	36	8.33
2	Bio Medical Instrumentation	3	4	75	6	11	54.55	12	18	66.67
3	Computer Engineering	9	19	47.37	8	18	44.44	4	18	22.22
4	Construction Management	4	19	21.05	4	18	22.22	3	19	15.79
5	Design Engineering	2	20	10	1	18	5.56	0	18	0
6	Digital System	8	20	40	7	17	41.18	5	18	27.78
7	Embedded Control Systems	5	18	27.78	5	16	31.25	8	18	44.44
8	Environmental and Water Resources	6	19	31.58	9	18	50	6	17	35.29
9	Geo Technical Engineering	6	20	30	3	18	16.67	6	18	33.33
10	Information Security	10	24	41.67	9	24	37.5	13	24	54.17
11	Manufacturing Engineering and	2	11	18.18	0	17	0	2	18	11.11
12	Materials Engineering	2	12	16.67	3	18	16.67	1	18	5.56
13	Mechatronics	2	19	10.53	5	18	27.78	1	18	5.56
14	Power Electronics and Machine	5	16	31.25	5	22	22.73	5	24	20.83
15	Power Electronics and Power	8	20	40	3	18	16.67	4	18	22.22
16	Process Instrumentation	7	19	36.84	6	18	33.33	3	18	16.67
17	Process Metallurgy	1	12	8.33	0	17	0	3	18	16.67
18	Project Mangement	5	19	26.32	3	16	18.75	1	18	5.56
19	Signal Processing	9	18	50	8	18	44.44	15	18	83.33
20	Structural Engineering	6	21	28.57	3	18	16.67	5	18	27.78
21	Thermal Engineering	2	20	10	3	18	16.67	0	19	0
22	Town and Country Planning (M.	17	32	53.13	19	30	63.33	7	31	22.58
23	VLSI and Embeded System	7	19	36.84	4	18	22.22	5	18	27.78
24	Wired and Wireless Communication	9	18	50	9	18	50	8	18	44.44
		136	458	30.99	126	458	27.54	120	476	25.75

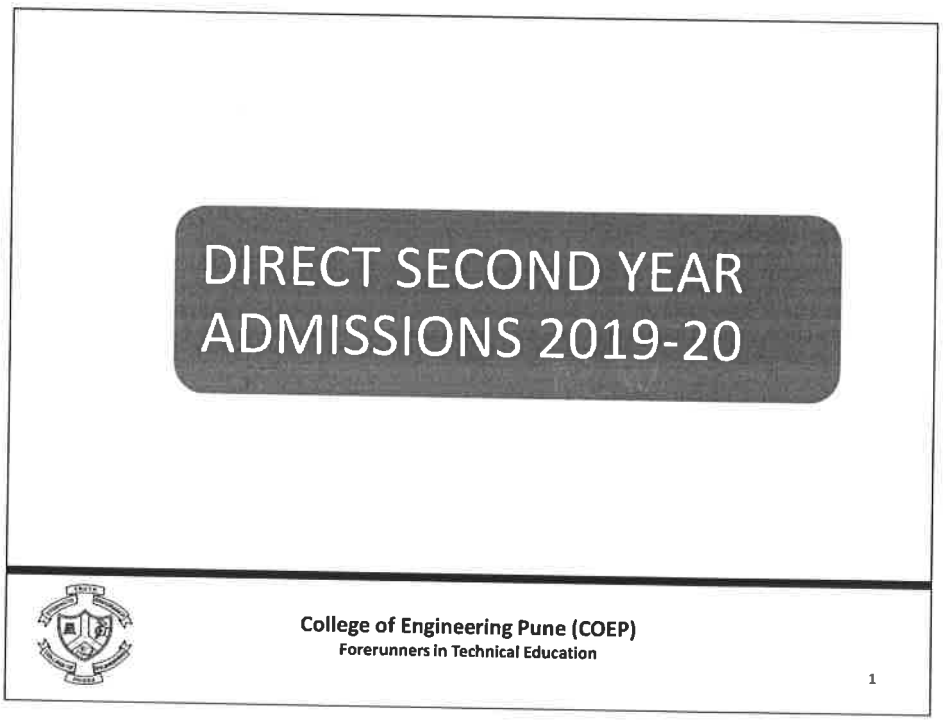


Sr. No.	Course Name	2019-2020			2018-2019			2017-2018		
		NS	Total	%	NS	Total	%	NS	Total	%
1	Automotive Technology	38	39	97.44	35	36	97.22	31	36	86.11
2	Bio Medical Instrumentation	4	4	100	11	11	100	18	18	100
3	Computer Engineering	17	19	89.47	15	18	83.33	14	18	77.78
4	Construction Management	15	19	78.95	14	18	77.78	14	19	73.68
5	Design Engineering	18	20	90	15	18	83.33	14	18	77.78
6	Digital System	20	20	100	16	17	94.12	18	18	100
7	Embedded Control Systems	17	18	94.44	16	16	100	17	18	94.44
8	Environmental and Water Resources	17	19	89.47	17	18	94.44	13	17	76.47
9	Geo Technical Engineering	19	20	95	15	18	83.33	14	18	77.78
10	Information Security	24	24	100	23	24	95.83	21	24	87.5
11	Mannfacturing Engineering and	9	11	81.82	16	17	94.12	14	18	77.78
12	Materials Engineering	11	12	91.67	18	18	100	18	18	100
13	Mechatronics	19	19	100	17	18	94.44	17	18	94.44
14	Power Electronics and Machine	16	16	100	21	22	95.45	22	24	91.67
15	Power Electronics and Power	18	20	90	15	18	83.33	14	18	77.78
16	Process Instrumentation	19	19	100	17	18	94.44	17	18	94.44
17	Process Metallurgy	12	12	100	16	17	94.12	17	18	94.44
18	Project Mangement	18	19	94.74	15	16	93.75	17	18	94.44
19	Signal Processing	18	18	100	18	18	100	18	18	100
20	Structural Engineering	16	21	76.19	14	18	77.78	14	18	77.78
21	Thermal Engineering	18	20	90	16	18	88.89	15	19	78.95
22	Town and Country Planning (M.	26	32	81.25	29	30	96.67	29	31	93.55
23	VLSI and Embeded System	16	19	84.21	15	18	83.33	14	18	77.78
24	Wired and Wireless Communication	18	18	100	18	18	100	15	18	83.33
		423	458	92.69	422	458	92.13	415	476	87.18

Sr. No.	Course Name	2019-2020			2018-2019			2017-2018		
		Sponsored	Total	%	Sponsored	Total	%	Sponsored	Total	%
1	Automotive Technology	1	39	2.56	1	36	2.78	5	36	13.89
2	Bio Medical Instrumentation	0	4	0	0	11	0	0	18	0
3	Computer Engineering	2	19	10.53	3	18	16.67	4	18	22.22
4	Construction Management	4	19	21.05	4	18	22.22	4	19	21.05
5	Design Engineering	2	20	10	3	18	16.67	4	18	22.22
6	Digital System	0	20	0	1	17	5.88	0	18	0
7	Embedded Control Systems	1	18	5.56	0	16	0	1	18	5.56
8	Environmental and Water Resources	2	19	10.53	1	18	5.56	4	17	23.53
9	Geo Technical Engineering	1	20	5	3	18	16.67	4	18	22.22
10	Information Security	0	24	0	1	24	4.17	3	24	12.5
11	Manufacturing Engineering and	2	11	18.18	1	17	5.88	4	18	22.22
12	Materials Engineering	1	12	8.33	0	18	0	0	18	0
13	Mechatronics	0	19	0	1	18	5.56	1	18	5.56
14	Power Electronics and Machine	0	16	0	1	22	4.55	2	24	8.33
15	Power Electronics and Power	2	20	10	3	18	16.67	4	18	22.22
16	Process Instrumentation	0	19	0	1	18	5.56	1	18	5.56
17	Process Metallurgy	0	12	0	1	17	5.88	1	18	5.56
18	Project Mangement	1	19	5.26	1	16	6.25	1	18	5.56
19	Signal Processing	0	18	0	0	18	0	0	18	0
20	Structural Engineering	4	21	19.05	4	18	22.22	4	18	22.22
21	Thermal Engineering	2	20	10	2	18	11.11	3	19	15.79
22	Town and Country Planning (M.	6	32	18.75	1	30	3.33	2	31	6.45
23	VLSI and Embeded System	3	19	15.79	3	18	16.67	4	18	22.22
24	Wired and Wireless Communication	0	18	0	0	18	0	3	18	16.67
		34	458	7.42	36	458	7.86	59	476	12.39

Sr. No.	Course Name	OMS			Average
		19-20	18-19	17-18	
1	Automotive Technology	3	2	1	2
2	Bio Medical Instrumentation	0	0	0	0.00
3	Computer Engineering	0	0	1	0.33
4	Construction Management	1	2	1	1.33
5	Design Engineering	2	0	0	0.67
6	Digital System	0	2	1	1.00
7	Embedded Control Systems	1	3	4	2.67
8	Environmental and Water Resources Engineering	0	3	1	1.33
9	Geo Technical Engineering	1	1	2	1.33
10	Information Security	1	3	4	2.67
11	Manufacturing Engineering and Automation	0	2	0	0.67
12	Materials Engineering	0	0	1	0.33
13	Mechatronics	1	0	1	0.67
14	Power Electronics and Machine Drives	2	0	4	2.00
15	Power Electronics and Power Systems	0	0	1	0.33
16	Process Instrumentation	0	3	1	1.33
17	Process Metallurgy	0	0	0	0.00
18	Project Mangement	1	1	3	1.67
19	Signal Processing	1	1	2	1.33
20	Structural Engineering	0	0	0	0.00
21	Thermal Engineering	1	0	1	0.67
22	Town and Country Planning (M. Planning)	0	3	0	1.00
23	VLSI and Embeded System	0	1	0	0.33
24	Wired and Wireless Communication	1	0	0	0.33
		16	27	29	

Direct Admissions at SY B.Tech Admissions



Admitted Students Branch-Wise

Sr. No.	Branch	Male students	Female students	Total Number
1	Civil Engg.	5	4	8+1*
2	Computer Engg.	4	12	16
3	Electrical	2	6	7+1*
4	E & TC	2	6	8
5	Instrumentation	2	2	4
6	Mechanical	12	5	17
7	Production (Sandwich)	6	2	8
8	Metallurgy	5	5	10
	Total	38	42	80
Note:	* Indicates Institute Level(J&KSSS)			

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Total Admitted Students Summary

Sr. No.	Admission Details	Civil	Comp	Elect	E&TC	Instru	Mech	Prod	Meta
1.	CAP (Excluding Minority)	7	14	7	7	3	15	7	9
2.	Against CAP (Excluding Minority)	0	0	0	0	0	0	0	0
3.	CAP (EWS)	1	2	0	1	1	2	1	1
4.	CAP (Minority)	0	0	0	0	0	0	0	0
5.	Against CAP (Minority)	0	0	0	0	0	0	0	0
6.	Over And Above Admitted	0	0	0	0	0	0	0	0
7.	J & K SSS admitted	1	0	1	0	0	0	0	0
	Total	9	16	8	8	4	17	8	10

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Max-Min Marks for Admitted Students

Sr. No.	Branch	Max. marks (%)	Min. Marks (%)
1	Civil Engg.	97	89.39 (J&KSSS – 83.32)
2	Computer Engg.	97.10	90.44
3	Electrical Engg.	98	93.06 (J&KSSS - 80.95)
4	Electronics & Telecommunication Engg.	96.56	80.75
5	Instrumentation engg.	93.29	61.9
6	Mechanical Engg.	96.75	89.65
7	Production Engg.(Sandwich)	90.65	65.59
8	Metallurgical Engg.	92.75	84

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Admitted Students - Marks Range

Sr. No.	Branch	No. of students securing >90%	No. of students securing 80%-90%	No. of students securing <80%
1	Civil Engg.	6	2+1*	--
2	Computer Engg.	15	--	1**
3	Electrical Engg.	7	1*	--
4	Electronics & Telecommunication Engg.	7	1	--
5	Instrumentation Engg.	2	1	1
6	Mechanical Engg.	15	2	--
7	Production Engg.(Sandwich)	2	4	1+1**
8	Metallurgical Engg.	3	7	--
Note	* Indicates Institute Level(J&KSSS), ** indicates PH Candidate			

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Minutes of 3rd Academic Council Meeting
Date: 18th January 2020, 10:30 am onwards
Venue: Production Department, COEP
Agenda

Item No.	Item
1	Formal Welcome of all the members of the Academic Council and a round of introduction by the Honorable Director, Prof. B. B. Ahuja
2	Confirmation of the Minutes of the 2nd Academic Council meeting held on 21st September 2019
3	The Actions Taken Report (ATR) on the Resolutions/Decisions of the 2nd Academic Council meeting held on 21st September 2019
4	Presentation of Proceedings of Internal Quality Assurance Cell (*IQAC*) by Dean Quality Assurance
5	Seeking Approval of change of M.Tech Admission Eligibility of a) Electrical - Power Electronics and Machine Drives b) Production Engineering – Manufacturing Engg. and Automation
6	Seeking approval for update of a) Credits of Engineering Graphics and Design course of B.Tech First Year E-Group b) MTech- Design Engineering Semester 1 Curriculum Structure
7	Reporting of Unfair means during odd Semester of AY 2019-20 Examinations by Controller of Examinations
8	Presentation of Odd semester Examinations Performance of AY 2019-20 by Controller of Examinations
9	Seeking approval of Admission Eligibility and Curriculum Structure of: a) New M.Tech Programme: Robotics and Artificial Intelligence by Production Engineering b) Nomenclature revised Programme on B.Tech Manufacturing Science and Engineering (Regular Pattern) by Production Engineering c) New Programme on MBA by Prof. Jibi Abraham and Mrs. Nandini Iyer
10	Any other point with permission of the Chair.

Item No. - 01: Formal Welcome to all Academic Council members by the Honorable Director, Prof. B. B. Ahuja.

The 3rd Academic Council meeting commenced with the formal welcome of all the members of the Academic Council by the Chairman of Academic Council and Director of the institute, Dr. B. B. Ahuja.

Item No. - 02: Confirmation of the minutes of 2nd Academic Council meeting dated 21st September 2019

The minutes of the 2nd meeting of the Academic Council held on 21st September 2019 were already circulated to the members by Prof. Jibi Abraham well in advance. The minutes of the meeting were placed before the members for confirmation and approval. The following points were raised by the present members:

- Prof. Vaggu asked if the reservation policy will be followed during the admission process for the PG Diploma Programmes. It was informed to the members that it is not required to follow the reservation policy for the PG Diploma Programmes as they are only certification courses.
- In the 2nd Academic Council meeting it was resolved to include

a representative of students, preferably the UG Final Year topper as a member of respective BoS in both DUPC and DPPC. The Director suggested including the Third Year UG (who is topper after 4th semester) and Second Year PG (who is topper after 2nd semester) students of respective Programmes in the BoS as they can be a part of the board for a longer period of time. All members agreed to his point of view.

R-AC-3/2/2020: The members **RESOLVED** to **APPROVE** the Minutes of the 2nd meeting of the Academic Council of the Institute held on 21st September 2019.

Item No. - 03: Actions Taken Report (ATR) on the Resolutions/Decisions of the 2nd Academic Council meeting held on 21st September2019.

Dean Academics presented the Actions Taken Report on various resolutions/decisions taken on every agenda item of the 2nd Academic Council meeting held on 21st September 2019 as given below:

Item No. - 01: Formal Welcome to all Academic Council members by the Honorable Director, Prof. B. B. Ahuja.

Dr. Jibi Abraham informed the members that the proposal is to be submitted to AICTE to change the nomenclature for B.Tech programmes: "Metallurgical Engineering" to "Metallurgy and Materials Technology" and "Production Engineering (Sandwich Pattern)" to "Manufacturing and Systems Engineering (Regular pattern)" from the Academic Year 2020-21. However, at the Board of Governors (BoG) meeting held on 1st November 2019, the Chairman Dr. Vijay Bhatkar opined that Systems Engineering has a wider connotation and that another suitable nomenclature for Production Engineering Programme be suggested and empowered the Director in this regard. The Department of Production Engineering and Industrial Management in their DUPC held on 15th Jan 2020 decided to adopt the nomenclature of Manufacturing Science and Engineering which is listed in 2019-20 Approval Process Handbook of AICTE.

The Dean further requested the Academic Council to approve this nomenclature changes. The Department of Production Engineering and Industrial Management will discontinue B.Tech Production Engineering (Sandwich Pattern) (60 intake) and introduce Manufacturing Science and Engineering (regular Pattern) (60 intake) with effect from the AY 2020-21.

The Dean further briefed the members that the institute has obtained in principle approval of Chairman of BoG to initiate a new M.Tech programme in "Robotics and Artificial Intelligence" with effect from the AY 2020-21. She requested the Academic Council to approve the curriculum structure of the new programmes in MBA and M.Tech in Robotics and Artificial Intelligence.

The applications for the new programmes in MBA and M.Tech in Robotics and Artificial Intelligence will be submitted to AICTE through the Extension of Approval (EoA) process for Academic Year 2020-21 very soon. Also, a request was sent to DTE to include

these two new programmes in the admission process of Academic Year 2020-21.

Item No. - 02: Confirmation of the minutes of 1st Academic Council meeting dated 6th July 2019

Dean Academics informed the members that by honouring the observations made by Prof. Salil S. Kulkarni about the Minutes of the 1st meeting of the Academic Council of the Institute held on 6th July 2019, the minutes were updated by adding the following paragraph under Item No. - 06: Curriculum Revision-2019:

"In UG Curriculum, the structure for E-Group and M-Group of First Year may be different. Hence, the Programme change facility after First Year should ensure that if there are compromises on courses between E-Group and M-Group, then such courses, if any, shall be completed as audit courses in the 2nd year by the respective students."

Item No. - 03: Autonomous Ph.D / M.Phil / M.Phil - Ph.D Programmes of COEP: Rules and Regulations
Noted and Approved.

Item No. - 04: Admission Quality of Students at COEP for AY 2019-20: Presentation of Analyses by Respective Admission Chairs of FY B.Tech/B.Planning/FY M.Tech./M.Planning/Direct Admissions at SY B.Tech
Noted and Approved.

Item No. - 05: Admission Quality of Students at COEP for AY 2019-20: Presentation of Analyses by Respective Admission Chairs of FY B.Tech/B.Planning/FY M.Tech./M.Planning/Direct Admissions at SY B.Tech.
Noted and Approved.

Item No.- 06: Dr. D. N. Sonawane, Head, Dept of Instrumentation and Control requested to update the admission eligibility criteria for the M.Tech Biomedical Instrumentation and to increase the intake of B.Tech Instrumentation and Control programme
Noted and Approved.

R-AC-3/03(a)/2020: The members **RESOLVED** to **APPROVE** the the change in nomenclature of existing B.Tech Production Engineering (Sandwitch Pattern) programme with current intake of 60 to B.Tech Manufacturing Science and Engineering (Regular Pattern) with intake of 60 and existing B.Tech Metallurgical Engineering programme with current intake of 60 to B.Tech Metallurgy and Materials Technology with intake of 60 with effect from Academic Year 2020-21.

R-AC-3/03(b)/2020: The members **RESOLVED** to **APPROVE** the introduction of 2 new post graduate programmes, i.e. MBA (intake of 30) with focus on Entreprenureship and Finance at curriculam level and M.Tech Robotics and Arrtificail Intelligence (intake 18) with effect from Academic Year 2020-21.

R-AC-3/03(c)/2020: The members **RESOLVED** to **APPROVE** that the Programme change facility after B.Tech First Year to ensure that if there are compromises on courses between E-Group and M-

Group, then such courses, if any, shall be completed as audit courses in the 2nd year by the respective students

R-AC-3/03(d)/2020: The members **RESOLVED** to **APPROVE** the Actions Taken Report (ATR) on the Resolutions/Decisions of 2nd Academic Council meeting held on 21st September 2019.

Item No. - 04: Proceedings of Internal Quality Assurance Cell (*IQAC*) by Dean Quality Assurance

Prof. Dr. S. N. Sapali, Dean Quality Assurance (QA) made a presentation on the proceedings of the Internal Quality Assurance Cell (IQAC). He discussed the aims and objectives of IQAC with the Academic Council members. IQAC aims to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institute. It aims to bring in the best practices to institute functioning towards quality enhancement through internalization of quality culture. IQAC would like to develop mechanisms and procedures for ensuring the timely, efficient and progressive performance of academic, administrative and financial tasks. It will conduct relevant and quality academic/ research programmes. It would attempt to provide equitable and affordable access to academic programmes to various sections of society. It would optimize and integrate modern methods of learning and teaching. It will ensure the adequacy, maintenance and proper allocation of support structure and services. Furthermore, it aims to share the research findings and network with other institutions in India and abroad.

Dean QA presented the composition of IQAC and shared the names of the 17 committee members of IQAC of COEP. Then he shared the points discussed during the two committee meetings held on 20th June 2019 and 3rd August 2019 so far.

He also shared a few formats to be used to tap the quality check at various levels. Prof. Butee opined that incorporation of too many documentations and the required data collection may increase the workload at the Faculty level, but Director replied that the data so collected will be utilized to analyzing for the realization of areas of improvements – measures of improvements and the actual improvements. The whole idea is to build a culture of quality consciousness. Once the culture is built, then eventually we may phase out the formats.

Dr. Udupikar enquired whether the Institute is having any Quality Management System (QMS) like ISO in use. Currently, a QMS is not existing, In addition to this, Dean QA encouraged the HODs to take a few measures at the departmental level in order to set a benchmark for the Faculty members and the students for internal quality improvement. He also gave a few guidelines to improve the image building using social media.

R-AC-3/04/2020: The Academic Council **NOTED** the Proceedings of IQAC meetings and appreciated the efforts taken to build a Quality Management System.

Item No. - 05: **Seeking Approval of change of M. Tech Admission Eligibility of**

a) Electrical Engineering - Power Electronics and Machine Drives

The 24 seats for admission to M.Tech in Power Electronics and Machine Drives based on eligibility criteria are distributed as follows:

i. Electrical Engineering (12)
ii. Electronics and Telecommunication (9)
iii. Instrumentation Engineering (3)

Prof. Dambhare discussed the administrative and academic problems faced by the department due to this division of seats during admission. After a detailed discussion, it was decided that any student from any Engineering discipline with GATE in Electrical Engineering shall be eligible to get admitted to this Programme.

b) Production Engineering – Manufacturing Engineering and Automation

Dr. Rajeev representing the Production Department elaborated the need to additionally include GATE in Mechanical Engineering as admission eligibility for M.Tech Manufacturing Engineering and Automation. The members agreed to the suggestion and opined that the 18 seats of the M.Tech Programme have to be divided among the two Engineering disciplines, viz., Production and Industrial Engineering and Mechanical Engineering. Also, the department is required to come up with the exact number of division of seats among the two eligible disciplines. Prof. Rajiv suggested as under:

i) Students from any branch of Engineering with GATE in Production and Industrial Engineering - 9 setas

ii) Students from any branch of Engineering with GATE in Mechanical Engineering - 9 seats

The mebers approved of the same.

R-AC-3/05/2020: The members **RESOLVED** to **APPROVE** the update of admission eligibility criteria for the M.Tech in Power Electronics and Machine Drives to be GATE in Electrical Engineering and that of the Manufacturing Engineering and Automation: A graduate of any branch of Engineering with GATE in Mechanical with 9 seats and remmaining 9 seats with GATE in Production and Industrial Engineering.

Item No. - 06: **Seeking approval for update of**

a) Credits of Engineering Graphics and Design course of B.Tech First Year E-Group

As per the Curriculum Revision in fifth iteration in 2019 for First Year B.Tech, the Engineering Graphics and Design Course has 4 credits for the M- Group (2 hrs lectures and 4 hrs practical **[L:2-T:0-P:4]**) while the E-Group has 3 cedits (1 hr lectures and 4 hrs practical **[L:1-T:0-P:4]**). For a uniform pattern of conducting the theory course in the summer term, the Academic

Council is requested to approve a change in the credit pattern of E-Group to 2 hrs lectures and 2 hrs practical **[L:2-T:0-P:2]**.
The mebers approved the same.

b) MTech- Design Engineering Curriculum Structure

After execution of the first semester of the revised structure for MTech- Design Engineering, HoD of the Mechanical Engineering Department proposed a few changes in the Curriculum structure of first semester as Program Specific Bridge Course to 'Computer Aided Design' in place of 'Collaborative Engineering for Design' and Core course on 'Finite Element Methods' in place of 'Computer Aided Design'.
The mebers approved the same.

R-AC-3/06/2020: The members **RESOLVED** to **APPROVE** the changes in the UG FY curriculum of the Engineering Graphics and Design Course the E-Group to [L:2-T:0-P:2] and MTech- Design Engineering Curriculum Structure of the first semester.

Item No. - 07: Reporting of Unfair means during odd Semester of AY 2019-20 Examinations by Controller of Examinations

The Controller of Examinations shared the with the Academic Council the unfair means spotted during the odd Semester of AY 2019-20 Examinations and the punishment received by the rule breakers. The examination Disciplinary committee has taken action on a total of 4 cases reported during the Semester End Examinations and one case during the Re-examinations. The details are provided in Appendix 1.

R-AC-3/07/2020: The Academic Council **NOTED** the Proceedings of disciplinary actions on unfair cases during examinations and expressed satisfaction over the minimal occurance of unfair cases.

Item No. - 08: Presentation of Odd semester Examinations Performance of AY 2019-20 by Controller of Examinations

The Controller of Examinations also discussed the performance of the students both in the regular examinations and re-examinations, year-wise and department programme-wise during the odd semester Examinations of AY 2019-20. The details of the same are listed in Appendix 2. It has been observed that the percentage of students passing in re-examination for First Year UG is only 44.52%. Dean Academics added that the poor performance of First Year Re-examinations may be due to lack of study time after the main semester examinations. Hence, care will be taken in the Academic Calendar of next year to provide a few days of preparation time before the commencement of the Re-examinations.

R-AC-3/08/2020: The Academic Council **NOTED** the Odd semester Examinations Performance of AY 2019-20.

Item No. - 09: **Seeking approval of Admission Eligibility and Curriculum Structure of:**

a) New M.Tech Programme: Robotics and Artificial Intelligence

Dr. Rajeev representing the Production Engineering elaborated on the eligibility criterion and curriculum structure of the proposed M.Tech Programme in 'Robotics and Artificial Intelligence'. The eligibility for admission to M.Tech Programme in Robotics and Artificial Intelligence will be any graduate in Engineering with GATE in Mechanical/Electrical / Electronics / Mechatronics/ Computer/ Information Technology/ Aerospace/ Aeronautical/ Automobile / Production/ Instrumentation Engineering disciplines. A member suggested adding the Bachelor's degree in Metallurgy to this eligibility list. This course is open for GATE qualified candidates, experienced industry person, scientists etc. After discussing the eligibility criterion, Dr. Rajeev gave a detailed account of the curriculum structure of the same Programme. The first and second semesters are of 22 credits each whereas the third and fourth semesters are of 12 credits each. The detailed curriculum Structure is provided in Appendix 3.
The members approved the same.

b) Nomenclature revised Programme on B.Tech Manufacturing Science and Engineering (Regular Pattern)

Dr. Rajeev described the forthcoming interdisciplinary Programme of Bachelors in Manufacturing Science and Engineering. The existing UG Production Engineering (Sandwich Pattern) course will run as Manufacturing Science and Engineering regular pattern with effect from A.Y. 2020-21 after obtaining due approvals from the statutory authorities. He then gave a detailed semester wise presentation of curriculum structure,which is listed with Appendix 4.

After observing the Curriculum Structure, the Director made an insightful observation about the Humanities Open Elective courses in the 5th semester and 6th semester offered to all the UG programmes that the students are not able to take full benefit of learning the Humanities courses. They opt for one of the courses in 5th semester and an advanced course on the same in the next semester. He requested the Academic Council to permit to modify the Humanities Open Elective course in such a way that all the language courses (English Language proficiency, Japanese Language and German Language) can be conducted in the 5th semester for E-Group and the other courses, viz., Engineering Economics, Finance for Engineers and Industrial Psychology can be conducted in the 6th semester. This pattern can be reversed in case of the M-Group students. Thus, instead of having the same course for two semesters, the students will have it for only one semester thereby enabling them to learn more course in Humanities. All these courses will be basic courses in those respective subjects and the advanced courses shall be offered as audit courses for interested students.
The members approved the same.

c) Proposed Programme on MBA by Prof. Jibi Abraham and Mrs. Nandini Iyer

Prof. Jibi Abraham and Mrs. Nandini Iyer presented the newly proposed MBA programme. This Programme will commence in July 2020. Dean Academics discussed the eligibility criteria and admission process of MBA. Mrs. Nandini Iyer discussed the aims and objectives of the forthcoming programme. She described the curriculum structure of the entire Programme in detail. It will be a two years programme with specialization in Finance and Entrepreneurship consisting of 88 credits. The curriculum structure of all the four semesters was discussed with the council members. The first semester will be of 24 credits, the second semester will be of 24 credits, the third semester will be of 24 credits and the final semester will be of 16 credits. The detailed curriculum Structure is provided in Appendix 5. The course will train the students for PMP certification and Business Analytics and requirements Engineering.

R-AC-3/08/2020: The members **RESOLVED** to **APPROVE** the Admission Eligibility and Curriculum Structure of the M.Tech Programme: Robotics and Artificial Intelligence, nomenclature of revised Programme on B.Tech Manufacturing Science and Engineering (Regular Pattern) and the new Programme on MBA. Also, the members **RESOLVED** to **APPROVE** the change in the structure of the Humanities Open Elective course offered to all its Third Year UG students of all branches.

Item No. - 09: **Any other point with the permission of the Chair**

No other points were discussed.

Dean Academics thanked all the members for attending the meeting and declared the meeting concluded. The meeting ended with the vote of thanks to the Chair.

Prof. Jibi Abraham
Member Secretary

Appendix 1

Unfair Means And Malpractices in Odd Semester Examination of AY 2019-2020

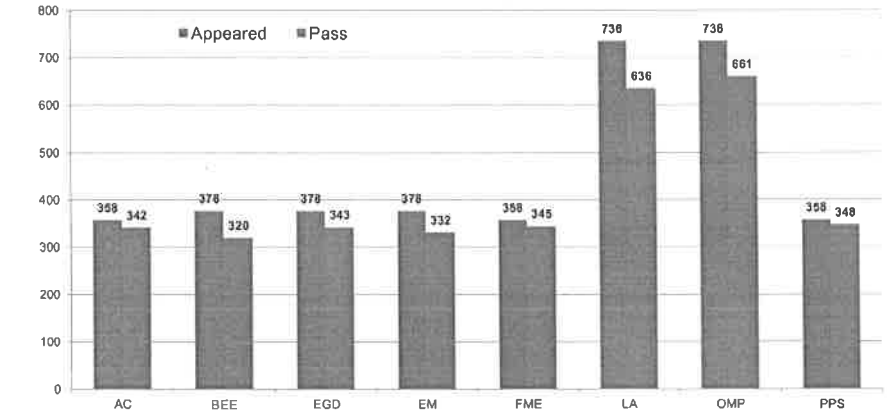
Sl No.	Details of Unfair Means and Malpractices	No. of cases	Details of Punishment
Regular Exam			
1	Chits found in the pouch	1	Detained in the concerned course but allowed for Re-exam
2	Writing pad with many details of concerned course	1	Detained in the concerned course and not allowsed for Re-exam.
3	Found small Chits in Jacket	1	Detained in the concerned course and not allowed for Re-exam but allowed for special summer if he clears remaining credits.
4	Changed Marks while showing answer books	1	Detained in the concerned course and not allowed to reappear in Re-exam and Summer Exam.
Re-exam			
1	Found handwritten notes on Hall Ticket	1	Detained in the concerned course.

Appendix 2

Result Analysis of Odd Semester Examination of AY 2019-2020

F Y STUDENT PERFORMANCE ANALYSIS

Regular Exam - Course Wise



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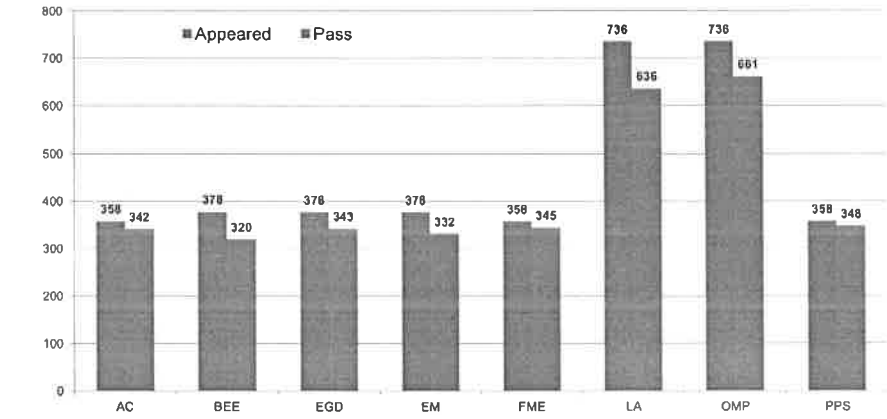
F Y STUDENT PERFORMANCE ANALYSIS

Regular Exam - Course Wise



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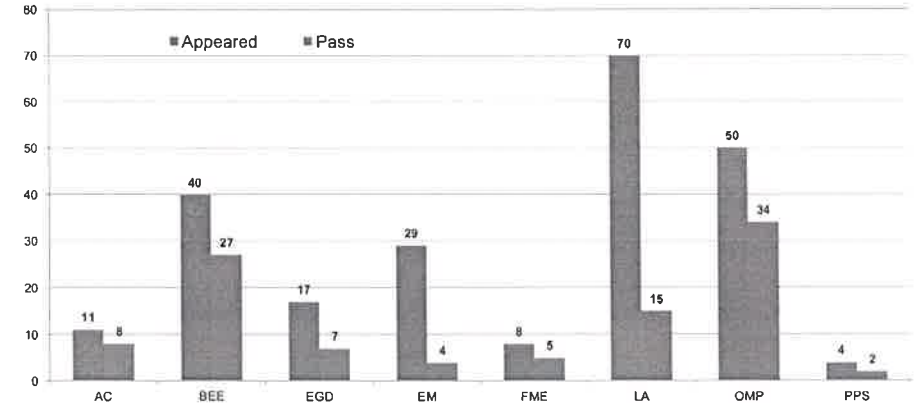
F Y STUDENT PERFORMANCE ANALYSIS

Re-exam – Course Wise



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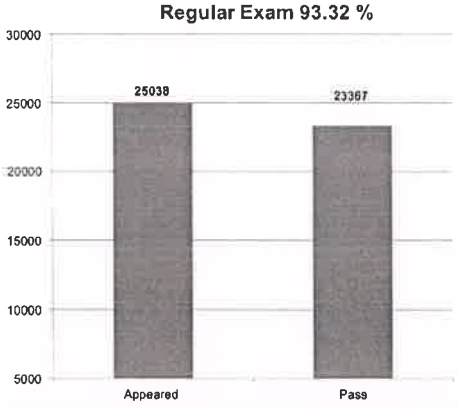
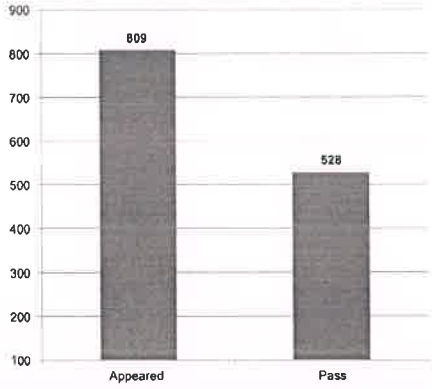
UG STUDENT PERFORMANCE ANALYSIS

Regular Exam 93.32 %



Re-exam 65.26 %



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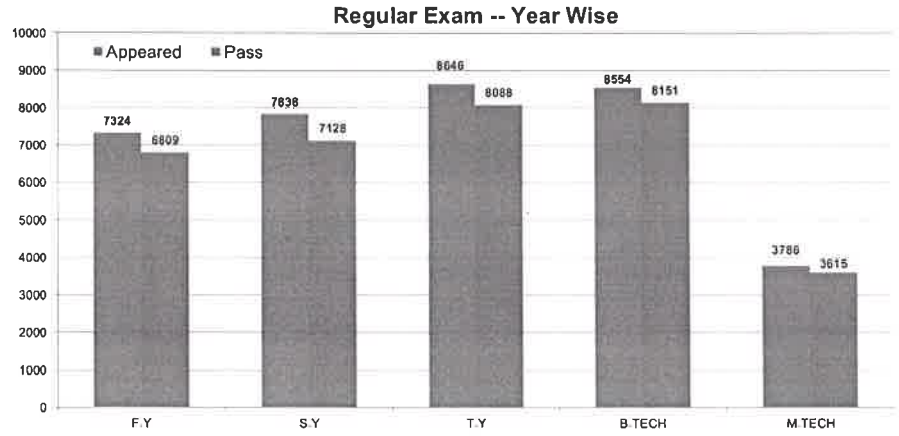
UG STUDENT PERFORMANCE ANALYSIS



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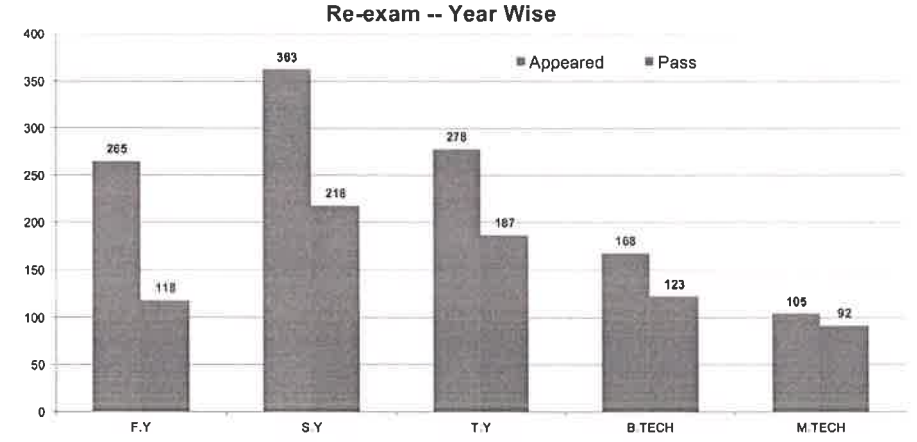
UG STUDENT PERFORMANCE ANALYSIS



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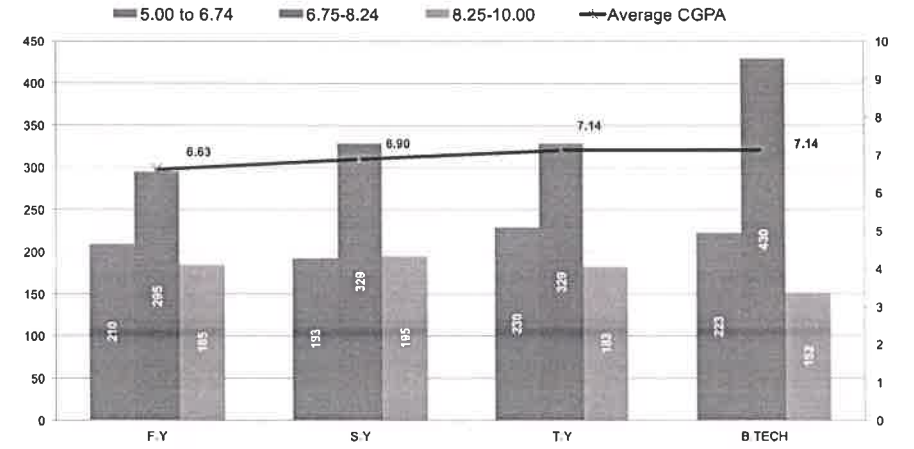
UG STUDENTS CGPA DISTRIBUTION



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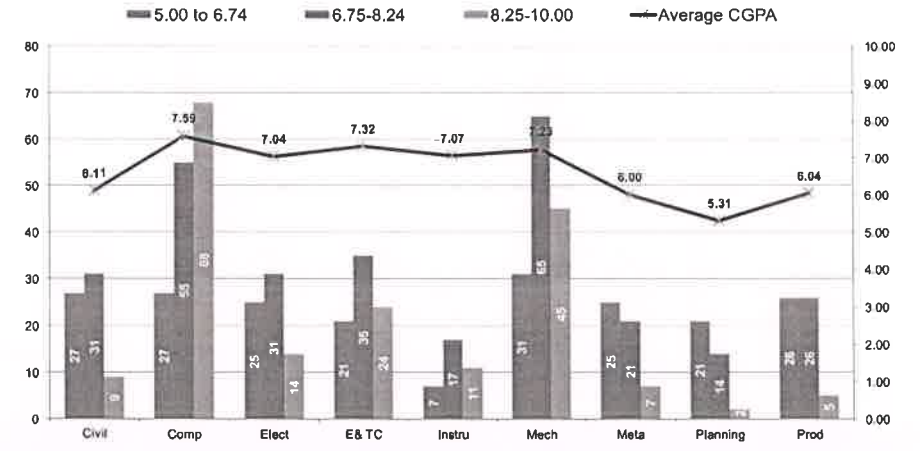
F. Y. UG STUDENTS CGPA DISTRIBUTION



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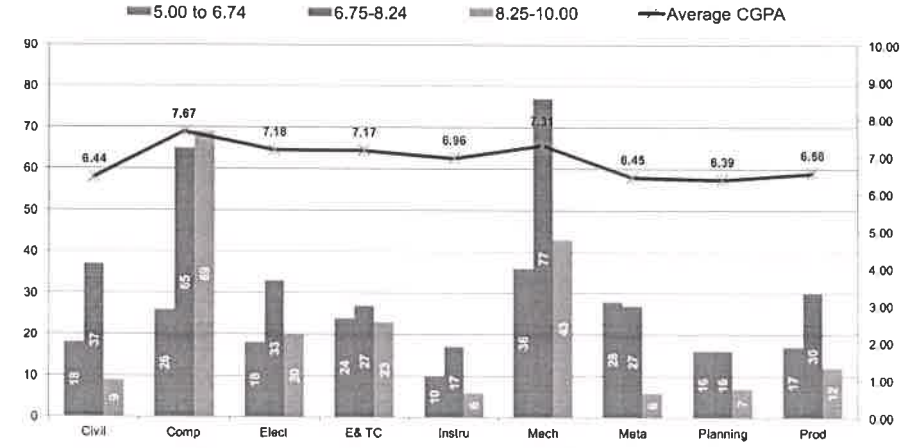
S. Y. UG STUDENTS CGPA DISTRIBUTION



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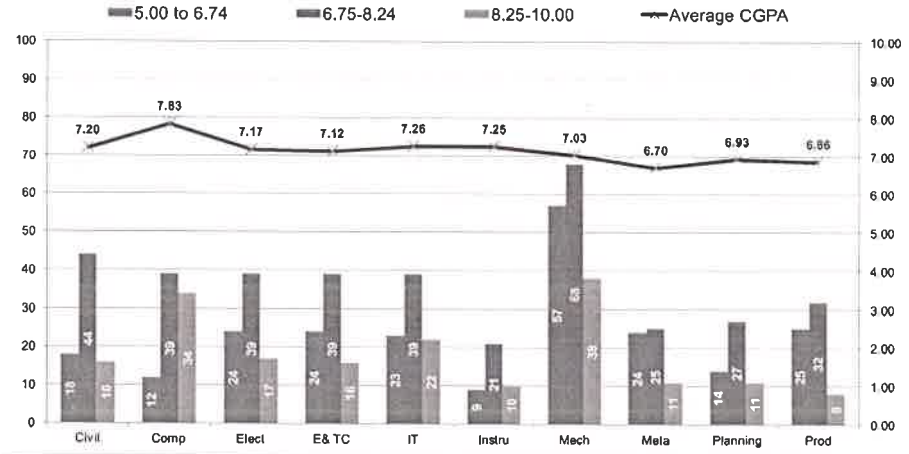
T. Y. UG STUDENTS CGPA DISTRIBUTION



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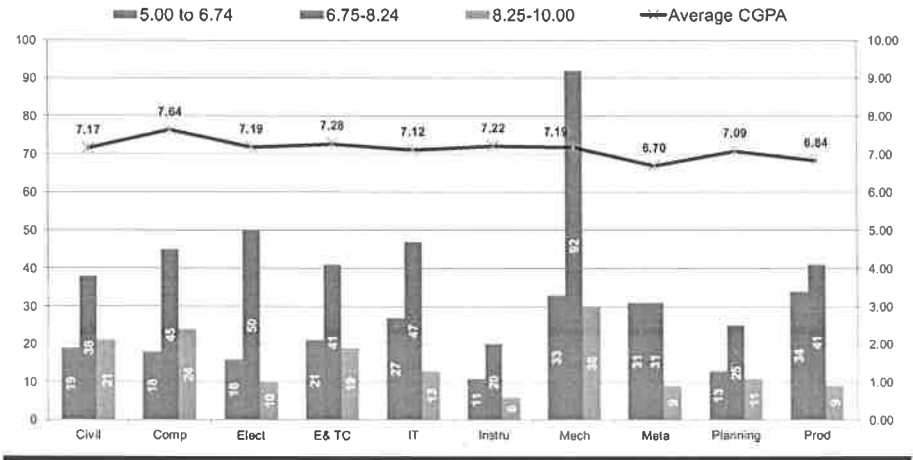
FINAL Y. UG STUDENTS CGPA DISTRIBUTION



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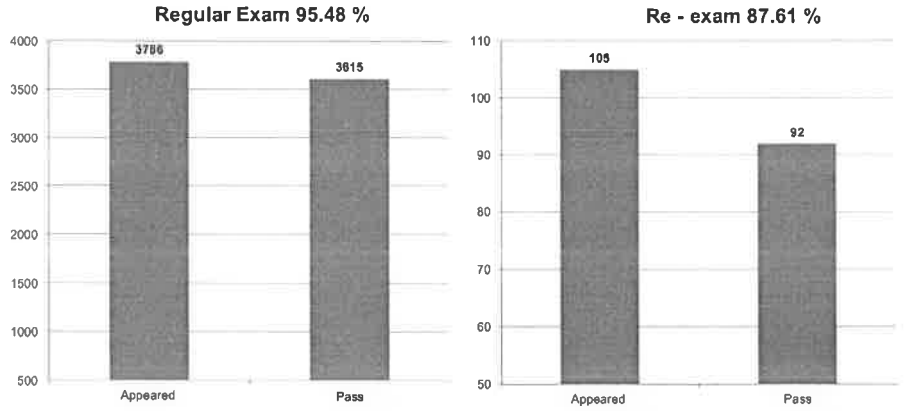
F Y PG STUDENT PERFORMANCE ANALYSIS



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Appendix 3

Curriculum Structure M. Tech. (Robotics and Artificial Intelligence) (w. e. f. 2020-2021)

List of Abbreviations

Abbreviation	Title	No of courses	Credits	%of credits
PSMC	Program Specific Mathematics Course	1	3	4.4
PSBC	Program Specific Bridge Course	1	3	4.4
DEC	Department Elective Course	3	9	13.2
MLC	Mandatory Learning Course	2	0	0
PCC	Program Core Course	7	19	27.9
LC	Laboratory Course	6	6	8.8
IOC	Interdisciplinary Open Course	1	3	4.4
LLC	Liberal Learning Course	1	1	1.4
SLC	Self Learning Course	2	6	8.8
SBC	Skill Based Course	2	18	26.5

Semester I

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1.	PSMC	Program Specific Mathematics Course	3	--	--	3
2.	PSBC	Program specific Bridge Course i)Principles of Electronics ii)Principles of Design of Machine Elements	2	1	--	3
3.	DEC	Department Elective – I	3	--	--	3
4.	PCC	Embedded Control System	2		2	3
5.	PCC	Fundamentals of Robotics	2			2
6.	PCC	Artificial Intelligence and Neural Networks	2	1		3
7	PCC	Sensors and Actuators in Robotics	2			2
8	LC	Robot Programming Laboratory			2	1
9	LC	Microcontroller Programming Laboratory (C++ and Python)			2	1
10	LC	Robotic Systems Laboratory			2	1
		Total Credits	16	2	8	22

Semester II

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1.	IOC	Interdisciplinary Open Course	3	--	--	3
2.	DEC	Department Elective –II	3	--	--	3
3.	DEC	Department Elective –III	3	--	--	3
4.	MLC	Research Methodology and Intellectual Property Rights	2	--	--	--
5.	MLC	Effective Technical Communication	1	--	--	--
6.	LLC	Liberal Learning Course	--	1	--	1
7.	PCC	Machine Learning for Robotics	2	1	--	3
8.	PCC	Advanced Control Systems	3	--	--	3
9.	PCC	Robot Kinematics and Dynamics	2	1	--	3
10	LC	Robot Simulation Laboratory	--	--	2	1
11	LC	Software Laboratory for ROS & SLAM	--	--	2	1
12	LC	Control Systems Laboratory	--	--	2	1
		Total Credits	19	3	6	22

Sr. No.	Departmental Elective Course -I
1	Mechanics of Manipulator
2	Manufacturing Automation
3	Microcontrollers-Architecture and Programming
4	Mechatronics System Design

Sr. No.	Departmental Elective Course -II
1	Modelling & Analysis of Dynamic Systems
2	Mobile and Micro-robotics
3	Advanced Sensor Systems
4	Advanced Artificial Intelligence

Sr. No.	Departmental Elective Course -III
1	Autonomous Robotics and Telecherics
2	Robot Vision System
3	Intelligent Manufacturing
4	Micro Electro Mechanical Systems

Semester-III

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1.	SBC	Dissertation Phase – I	--	--	18	9
2.	SLC	Massive Open Online Course-I	3	--	--	3
						12

Semester-IV

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1.	SBC	Dissertation Phase – II	--	--	18	9
2.	SLC	Massive Open Online Course –II	3	--	--	3
						12

Appendix 4

Curriculum Structure of B. Tech. (Manufacturing Science and Engineering)

List of Abbreviations

Abbreviation	Title	No of courses	Credits	% of Credits
BSC	Basic Science Course	9	27	16.26
ESC	Engineering Science Course	5	18	10.89
MLC	Mandatory Learning Course	4	0	0
SLC	Self Learning Course	2	5	3.02
HSMC	Humanities/Social Sciences/Management Course	7	9	5.4
LLC	Liberal Learning Course	1	1	0.6
SBC	Skill Based Course	7	17	10.24
IFC	Interdisciplinary Foundation Course	2	4	2.40
IOC	Interdisciplinary Open Course	3	6	3.61
DEC	Department Elective Course	2	6	3.61
PCC	Program Core Course	19	56	33.73
LC	Laboratory Course	17	17	10.24
		78	**166**	**100**

Semester I [M-Group]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	BSC	Linear Algebra	2	1	0	3
2	BSC	Optics and Modern Physics	3	0	0	3
3	ESC	Basic Electrical Engineering	3	0	0	3
4	ESC	Engineering Graphics and Design	2	0	4	4
5	ESC	Engineering Mechanics	3	1	0	4
6	SBC	Mechanical Fab Shop	0	0	2	1
7	LC	Optics and Modern Physics Laboratory	0	0	2	1
8	LC	Basic Electrical Engineering Laboratory	0	0	2	1
9	LC	Engineering Mechanics Laboratory	0	0	2	1
	Total Academic Engagement and Credits		**13**	**2**	**12**	**21**

Semester II [M-Group]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	BSC	Uni-variate Calculus	2	1	0	3
2	BSC	Solid State Physics and Statistical Thermodynamics	3	0	0	3
3	BSC	Applied Chemistry	3	0	0	3
4	ESC	Basic Electronics Engineering	3	0	0	3
5	ESC	Programming for Problem Solving	3	0	2	4
6	HSMC	Design Thinking	0	1	0	1
7	HSMC	Effective Communication Skills	0	0	2	1
8	SBC	Electronics and Computer Workshop	0	0	2	1
9	LC	Solid State Physics and Statistical Thermodynamics Laboratory	0	0	2	1
10	LC	Applied Chemistry Laboratory	0	0	2	1
	Total Academic Engagement and Credits		**14**	**2**	**10**	**21**

Semester III [M-Group]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	BSC	Ordinary Differential Equations and Multivariate Calculus	2	1	0	3
2	BSC	Biology for Engineers	3	0	0	3
3	IFC	Industrial Electronics and Electrical Drives	2	0	0	2
4	SBC	Product and System Graphics Lab	0	0	2	1
5	PCC	Theory of Machines	2	1	0	3
6	PCC	Strength of Materials	2	0	0	2
	PCC	Basic Manufacturing and Science	3	0	0	3
7	PCC	Material Science and Engineering	2	0	0	2
8	LC	Conventional Manufacturing Lab	0	0	2	1
9	LC	Material Science and Engineering Lab	0	0	2	1
10	LC	Theory of Machines Lab	0	0	2	1
	Total Academic Engagement and Credits		**16**	**02**	**08**	**22**

For other departments

		Interdisciplinary Foundation Course-I				
1	IFC	Machining Systems Technology	2	0	0	2

Semester IV [M-Group]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	BSC	Vector Calculus and Partial Differential Equations	2	1	0	3
2	MLC	Professional Laws, Ethics and Values	1	0	0	0
3	HSMC	Innovation and Creativity	1	0	0	1
4	IFC	Microprocessors and Sensors	1	0	2	2
5	SBC	Rapid Prototyping Practice (an "I-D-P: Ideate-Develop- Prototype" team Micro-project)	0	0	2	1
6	PCC	Engineering Thermodynamics and Heat Transfer	3	0	0	3
7	PCC	Fluid Power	2	1	0	3
8	PCC	Machine Design	3	0	0	3
9	PCC	Non Conventional Manufacturing Processes	3	0	0	3
11	LC	Industrial Electronics and Electrical Drives Lab	0	0	2	1
12	LC	Engineering Thermodynamics and Heat Transfer Lab	0	0	2	1
13	LC	Fluid Power Lab	0	0	2	1
	Total Academic Engagement and Credits		**17**	**02**	**8**	**22**

For other departments

		Interdisciplinary Foundation Course-II	L	T	P	Credits
1	IFC	Industrial Engineering	2	0	0	2

Semester V [M-Group]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	BSC	Probability and Statistics for Engineers	2	1	0	3
2	MLC	Environmental Studies	1	0	0	0
3	IOC	Interdisciplinary Open Course-I	2	0	0	2
4	HSMC	Humanities Open Course - I • English Language Proficiency-I • Finance for Engineers-I • Engineering Economics-I • Industrial Psychology-I • Japanese Language-I • German Language-I • Personal Psychology	2	0	0	2
5	SBC	Non Conventional Manufacturing Lab	0	0	2	1
6	PCC	Metrology and Production Control	3	0	0	3
7	PCC	Machine Tools and Manufacturing Systems	2	1	0	3
8	PCC	Industrial Engineering and Management	2	0	0	2
9	PCC	Product Design and Ergonomics	3	0	0	3
10	PCC	Operations Research	3	0	0	3
11	LC	Process Planning and Tool Selection Lab	0	0	2	1
12	LC	Metrology and Production Control Lab	0	0	2	1
	Total Academic Engagement and Credits		**19**	**2**	**8**	**24**

Semester VI [M-Group]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	MLC	Constitution of India	1	0	0	0
2	HSMC	Humanities Open Course - II • English Language Proficiency-II • Finance for Engineers-II • Engineering Economics-II • Industrial Psychology-II • Japanese Language-II • German Language-II	2	0	0	2
3	HSMC	Entrepreneurship Principles and Process	1	0	0	1
4	SBC	Mini project ["D-S-P-T: Design-Simulate-Prototype-Test "]	0	0	4	2
5	IOC	Interdisciplinary Open Course-II	2	0	0	2
6	DEC	Department Elective -I/Industry floated Course/Co-Taught Course	3	0	0	3
7	PCC	Tool and Die Design	2	1	0	3
8	PCC	Material Forming and Joining Techniques	3	0	0	3

9	PCC	Kinematics and Dynamics of Machines	2	1	0	3
10	PCC	Manufacturing Automation	3	0	0	3
11	LC	Manufacturing Automation Lab	0	0	2	1
12	LC	Kinematics and Dynamics of Machines Lab	0	0	2	1
	Total Academic Engagement and Credits		**18**	**2**	**10**	**24**

Department Elective-I

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	DEC	Supply chain and Logistics Management	3	0	0	3
2	DEC	Reliability and Terotechnology	3	0	0	3
3	DEC	Facility Planning and Design	3	0	0	3
4	DEC	Micro and Nano Manufacturing	3	0	0	3
5	DEC	Hybrid Manufacturing Systems	3	0	0	3
6	DEC	Design of Experiments and Optimization	3	0	0	3

Semester VII [M-Group]: Scheme B

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	MLC	Intellectual Property Rights	1	0	0	0
2	LLC	Liberal Learning Course	1	0	0	1
3	IOC	Interdisciplinary Open Course-III	2	0	0	2
4	DEC	Department Elective-II	3	0	0	3
5	SLC	Massive Open Online Course -I Design for Manufacture and Assembly	3	0	0	3
6	SLC	Massive Open Online Course -II	2	0	0	2
7	PCC	CAD/CAM/CIM	2	1	0	3
8	PCC	Additive Manufacturing	2	1	0	3
9	PCC	Robotics and Intelligent Manufacturing	3	0	0	3
10	LC	CAD/CAM/CIM Lab	0	0	2	1
11	LC	Additive Manufacturing Lab	0	0	2	1
	Total Academic Engagement and Credits		**19**	**2**	**4**	**22**

Department Elective-II [Option among minimum 3 courses]

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	DEC	Precision Engineering	3	0	0	3
2	DEC	Total Quality Management and Six Sigma	3	0	0	3
3	DEC	Material Handling Equipments Design	3	0	0	3
4	DEC	Tribology in Design and Manufacturing	3	0	0	3
5	DEC	Mechatronics	3	0	0	3
6	DEC	Manufacturing Control Systems	3	0	0	3
7	DEC	Systems Engineering	3	0	0	3

Semester VIII [M-Group]: B Scheme

Sr. No.	Course Type	Course Name	Teaching Scheme			Credits
			L	T	P	
1	SBC	Major Project with Industry/Corporate/Academia	0	0	20	10
	Total Academic Engagement and Credits		**0**	**0**	**20**	**10**

Appendix 5

Curriculam Structure of MBA Programme

Curriculum Structure- Semester I

No	Course Name	Teaching Scheme			Credits
		L	T	P	
1	Business Communication and Organizational Behaviour	3	0	0	3
2	Fundamentals of Finance	2	0	0	2
3	Human Resource Management	2	0	0	2
4	Management Information System	2	0	0	2
5	Basics of Marketing	2	0	0	2
6	Managerial Economics	2	0	0	2
7	Business Law and Ethics	2	0	0	2
8	Market Research and Techniques	2	0	0	2
9	Design Thinking	1	0	0	1
10	Research methodology	2	0	0	2
11	Advance Excel	0	0	2	1
12	Project I	0	0	4	2
	Total Academic Engagement and Credits	26			23

Curriculum Structure- Semester II

No	Course Name	Teaching Scheme			Credits
		L	T	P	
1	Business Statistics	3	0	0	3
2	Intellectual Property Rights	2	0	0	2
3	Business Accounting	2	0	0	2
4	Principles of Entrepreneurship	2	0	0	2
4	Principles and Practices of Management	2	0	0	2
5	Logistics and Supply Chain Management	2	0	0	2
6	Corporate Governance and Corporate Social responsibility	2	0	0	2
7	Business Plan	2	0	0	2
8	Fundamentals of Operations	2	0	0	2
9	Risk Management	1	0	0	1
10	Enterprise Resource Planning	1	0	0	1
11	Innovation	1	0	0	1
12	Project II	0	0	4	2
	Total Academic Engagement and Credits	26			24

Curriculum Structure- Semester III

No	Course Name	Teaching Scheme			Credits
		L	T	P	
1	Strategic Management	2	0	0	2
2	Business Analytics	2	0	0	2
3	Project Management - PMP level	2	0	0	2
4	Introduction to Business Intelligence	2	0	0	2
5	Introduction to Start ups	2	0	0	2
6	Specialization I Finance	8	0	0	8
	Specialization II Entrepreneurship	8	0	0	8
7	Case Study Writing and Analysis Methods	0	0	4	2
8	Dissertation (max 15000 words)	0	0	4	2
	Total Academic Engagement and Credits	26			22

Curriculum Structure- Semester III

No	Course Name	Teaching Scheme			Credits
Specialization I-Finance		L	T	P	
1	International Markets and Financial Services	2	0	0	2
2	Managing Banks and Financial Institutions	2	0	0	2
3	Taxation	2	0	0	2
4	Corporate valuations	2	0	0	2
	Total Academic Engagement and Credits	8			8
Specialization II-Entrepreneurship		L	T	P	
1	Market Research	2	0	0	2
2	Business Modeling India & International	2	0	0	2
3	Venture Valuations and Techniques	2	0	0	2
4	Mergers and Acquisitions	2	0	0	2
	Total Academic Engagement and Credits	8			8

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Curriculum Structure- Semester IV

No	Course Name	Teaching Scheme			Credits
		L	T	P	
1	Conflict and Negotiation	2	0	0	2
2	Sales and Distribution	2	0	0	2
3	Advance analytics	2	0	0	2
4	Dissertation (max 15000 words)	0	0	4	2
5	Specialization I Finance	8	0	0	8
	Specialization II Entrepreneurship	8	0	0	8
	Total Academic Engagement and Credits	18			16

Curriculum Structure- Semester IV

No	Course Name	Teaching Scheme			Credits
Specialization I-Finance		L	T	P	
5	Investment Banking	2	0	0	2
6	Financial Modeling and Risk Management	2	0	0	2
7	Derivative Markets	2	0	0	2
8	Behavioural Finance	2	0	0	2
	Total Academic Engagement and Credits	8			8
Specialization II-Entrepreneurship		L	T	P	
5	Business Analysis and requirements Engineering	2	0	0	2
6	Entrepreneurial Marketing	2	0	0	2
7	Innovation Technology Management	2	0	0	2
8	Social Entrepreneurship	2	0	0	2
	Total Academic Engagement and Credits	8			8

Minutes of 4th Academic Council Meeting

Date: 19th May 2020, 12:30 pm onwards

Venue: An Online Microsoft Teams Meeting

Agenda

Item. No.	Item
1	Seeking approval for Revised Academic Plan for Even Semester of the Academic Year 2019-20 a) For the B.Tech.- 8th semester and M.Tech.- 4th semester b) For the Lower Years i.e. B.Tech.- 2nd/4th/6th semester and M.Tech.- 2nd semester

The 4th Academic Council meeting, in online mode, commenced with the formal welcome of all the members of the Academic Council by the Chairman of Academic Council and Director of the institute, Prof. B. B. Ahuja.

Item No. - 01: Seeking Approval for Revised Academic Plan for Even Semester of the Academic Year 2019-20

The Dean Academics, Prof. Jibi Abraham made a presentation about the guidelines provided by statutory bodies such as UGC, AICTE, Savitribai Phule Pune University (SPPU)and the H & TE department of Govt. of Maharashtra regarding the academic proceedings during the lockdown period 2.0 and 3.0.

The first lockdown was declared on 14th March 2020. The Dean Academics summarized the directives and broad guidelines released by the UGC on the academic proceedings as per the situation during the lockdown 2.0. The UGC has given guidelines. The UGC instructed the colleges/institutes to continue practicing the teaching learning process deploying e-learning initiatives, online mode of education for course content delivery, simulations for the project work, stress on internal assessment and e-lab activities, to be completed and the students to take their online/offline theory examination. The colleges/institutes were asked to follow the scheme of 'Carry Forward' thereby promoting all the students to the next semester, and the students, not contented with the performance would be given a choice to opt for their marks/grade improvement examination during the next semester. The institutes were instructed to ensure continuity and accomplishment of academics, conduction of examinations, declaring the results, and complete the ongoing term without violating the norms of social and physical distancing and compliance with Govt. directives, in this regard.

During the lockdown 3.0, SPPU issued a circular to the affiliated institutes to conduct the End Sem Examination (ESE) of the 8th semester B.Tech and 4th semester M.Tech students and declare results accordingly. As far as the 2nd, 4th and 6th semester B.Tech students and 4th semester M.Tech students are concerned; SPPU

directed the institutes to declare results of the students based on their Continuous In-Semester Evaluation (CIE) (based on the portions completed before the declaration of the lockdown 1.0 on 14th March 2020) and immediate past semester's SGPA.

With this preamble and background the Dean Academics started her presentation on revised Academic Execution Plan (more importantly, including Students' Evaluation), at COEP as an Autonomous Institute, for the students of BTech-8th Sem and MTech-4th Sem, to begin with, and for the students of UG-2nd, 4th, and 6th Semesters, thereafter.

(a) For the B.Tech.- 8th semester and M.Tech.- 4th semester

The Dean Academics stated that the on-campus academics of the students were held till Mar 14th March and thereafter, the theory courses were delivered online till 10th May 2020. She further asserted that in the current pandemic situation, there is NO POSSIBILITY of any STUDENT of B.Tech. and M.Tech REPORTING physically to the campus to appear for on campus in-person examination. Meanwhile, a survey was conducted by the Institute, for the students and it was discovered that around 82% students have access to Internet connectivity and smart device, laptop etc., whereas, the remaining ones are at least, equipped with mobile phones.

Based on the UGC/SPPU circulars, she reiterated that that, the current even semester assessment of the 8th semester-B.Tech and 4th semester-M.Tech students for theory courses, lab courses and B.Tech Project Stage – II /M.Tech Dissertation Stage – II are to be mandatorily completed. She further started with the proposed assessment schemes for the theory courses to be followed for the Final year students, ready to exit from campus. The usual CIE followed for the students consists of T1 – 20 marks and T2 – 20 marks and ESE – 60 marks. The assessment of T1 was completed as per academic calendar 2019-20. The T2 was scheduled on the next immediate week after beginning of lockdown 1.0 and hence could be partially completed for a few courses by some teachers. 15th March onwards, the theory courses were delivered in online mode, an now, the course teachers should complete T2 assessment, if pending, for their respective courses using an 'online-off campus mode' before 7th June 2020. If the students face some difficulty in doing this, the faculty members are expected to assess their performance through assignments and/or audio conferencing based oral examination. And, the total of T1+T2 (40 marks) obtained by a student for each of course is to be pro-rated to 50 marks.

Dr. Abraham further proposed replacing the conventional "Paper-Pen" based ESE of the final year students with an "Online-off campus Oral Examination (OOE)" of 50 marks. She presented the details as follows:

- The OOE will be jointly conducted by two Faculty members and will be based on the complete syllabus (2/3 portion completed before 14th March, 1/3 portion delivered online during lockdown).
- The faculty members are advised to use a Video Conferencing Platform, with recording for documentation purpose and to avoid impersonation.
- The faculty members should allow only one student to enter the meeting and conduct his/her oral examination. The next student should be taken in only

after the previous student exits the session. The faculty members are advised to ensure that every student is evaluated independently.

- If the students have some internet connectivity problems, the faculty members should assess their performance through audio based oral examination.
- Thus, for the final semester students of B.Tech and M.Tech courses, the total score will consist of the T1 +T2 (40 Marks) prorated to 50 and the OOE of 50 marks. The parameters of the relative grading will be applied to this final score.
- If any student is dissatisfied with a grade scored by him/her for any course, he/she can appear for a grade improvement ESE (Paper-pen based) of the even term course in Dec.-2020 for 50 marks. This paper based exam will be a replacement to OOE component of June-July Exam.

The external expert, Prof. Suhas Joshi suggested giving more flexibility to the students who are located in the severely affected areas (by pandemic) by deferring the dates of grade improvement test from six months to one year later for the students. He stressed that it is an unprecedented situation and we should give more time to the students, for preparation, by practicing flexibility in exam. schedules and leniency/consideration in evaluation.

Upon a query by one of the members regarding the students who may fail in such OOE, Prof. Suhas Joshi suggested the institute to come up with a special nomenclature for the grade named as 'Covid Grade' for such students.

Another member enquired on the selection of the score will towards further consideration, if the student performs worse in the improvement examination than in the Online-off campus Oral Examination (OOE). Prof. Ahuja answered that the score obtained in the improvement examination will be considered as final one, as it is students' discretion to opt for the examination and they should have clarity regarding the same. The student who will be showing interest for the improvement exam of a course, the obtained grade for the course in the June-July exam will be altered to "I" grade till the declaration of improvement examination results, the Dean Academics added.

Further, the Dean Academics made a presentation about the proposals regarding the assessment patterns for the practical/lab courses for the 8th semester-B.Tech and 4th semester-M.Tech courses. She reported that as far as the practical courses are concerned, on an average, 66% of experiments/ assignments were completed before the campus was closed on 14th March 2020 and proposed the following:

- The completed assignments till 14th March should be evaluated out of 50 marks.
- The lab Oral Examination of the 8th semester-B.Tech students and 4th semester- M.Tech students be replaced with an Online-off campus Oral Examination (OOE) of 50 marks, which will be jointly conducted by two Faculty members, and based on the practical assignments completed till 14th March 2020.
- A joint but sequential assessment for theory and lab orals, be followed by the examiners.

- As far as the seminar courses for these final semesters are concerned, the evaluation will consist of an Online-off campus Oral Examination (OOE) of 50 marks and evaluation of the seminar report out of 50 by the guide.
- The teachers are expected to complete the assessment of the 8th semester B.Tech and 4th semester M.Tech before 28th June 2020. The relative grading will be applied to continuous evaluation out of 50 marks plus OOE out of 50 marks.
- There will be no grade improvement ESE as far as the practical courses for Dec 2020 examination.

Prof. Suhas Joshi reiterated that maximum leniency and consideration should be shown towards the students keeping in mind the tough situation due to the unprecedented pandemic. The Dean Academics stated that the HODs can inform the teachers in their respective departments to be follow the principle of leniency, flexibility and consideration, towards the students while assessing them.

Dr. Amol Patil asked how the teachers will assess the students who have missed some practical/assignments prior to 14th March due to some personal or medical reasons. Prof. Ahuja replied to his query by saying that the faculty members should evaluate such students based on whatever practical sessions they have attended till 14th March following the principle of leniency and flexibility.

Prof. Anil Kulkarni suggested that simple videos of the practical sessions missed by the students due to lockdown may be shared with the students so that they have some idea about the lab experiments they could not handle and practice. Mr. Amol Patil asked whether the assessment will cover the project evaluation as well. He suggested that the teachers can follow objective evaluation of the laboratory examination by first sharing the information with the students and then asking them questions about the same.

Further, the Dean Academics made a presentation addressing the issue of the assessment of B.Tech Project Stage – II for the 8th semester-B.Tech students and M.Tech Dissertation Stage – II for the 4th semester-M.Tech students.

The Dean Academics proposed an assessment based on continuous evaluation and final Oral/Presentation Examination, as follows:

- The students are expected to complete their Project /Dissertation stage – II including REPORT writing by 14th June 2020.
- The continuous evaluation out of 50 marks will consist of their midterm evaluation and the work completed till the end.
- An Online-off campus Oral Examination (OOE) be conducted for 50 marks. It will be evaluated by a panel of examiners (with additional external/industry) decided by the DUPC/DPPC. This OOE assessment will be based on students' presentation, project/Dissertation report and online demonstration, using recorded videos. It will be conducted from 29th June 2020 to 8th July 2020.
- As per the practice followed by individual departments, relative grading will be applied on summed 100 marks (50 for Continuous evaluation plus 50 marks for OOE mode for ESE).

- If a student is dissatisfied with his grades in B.Tech Project / M.Tech Dissertation stage - II, an extension of work up to a maximum 3 months shall be permitted to him/her and an improvement ESE shall be conducted before the completion of the extension period. The marks obtained in improvement ESE marks will substitute the OOE component of June-July assessment.

Prof. Suhas Joshi again requested everyone to follow the principle of leniency and flexibility as it would be unfair with the students to arrive at the expected output with the limited resources available to them during this lockdown period.

Prof. Sudhir Ghorpade asserted that the students have genuine problems as they do not have the resources available to complete their experiment satisfactorily. He also strongly suggested that the teachers should be lenient and flexible while assessing the students.

The Dean Academics assured the members that there will be no immediate Re-examination for failed theory courses of 8th semester. An improvement ESE for theory courses will only be conducted in Dec. 2020. B.Tech. / M.Tech. final year students registered for any backlog courses in 2nd/4th/6th semester will follow the guidelines for assessment as that for the regular students of 2nd/4th/6th semesters. She further added that, the institute has a practice of offering a special summer term for students remaining with only theory backlogs worth 12 or less than 12 credits to get a degree. This will be substituted with supplementary examinations of 100 marks in Aug 2020 based on the student statistics and need of the students. The eligibility for registering for the course entails that the student does not have any practical course/project work pending to be completed and he/she must have appeared at least once and failed in ESE in any of the previous academic years. It was informed that the institute shall ensure that low performing students will get another chance for improvement before end of odd term of next Academic Year

b) For the Lower Years i.e. B.Tech.- 2nd/4th/6th semester and M.Tech.- 2nd semester

Further, the Dean Academics made a presentation about the academic execution plan/proposal and the assessment patterns, in particular, for the theory courses of the 2nd, 4th and 6th semesters of B.Tech and 2nd semester of M.Tech courses.

The Dean Academics reiterated that the T1 of the 2nd, 4th and 6th semesters of B.Tech and 2nd semester of M.Tech was conducted before the lockdown. The T2 of these courses was scheduled in the third week of March and couldn't be completed due to declaration of the lockdown 1.0. However, the teachers completed the syllabus of the theory courses via e-learning modes. The proposal went as follows:

- The faculty members should complete T2, if pending, for their respective courses as online off-campus test before 7th June 2020.
- If a student faces some problems in doing this, the faculty members should assess their performance through assignments and audio based oral test.
- The T1+T2 (40 marks) obtained by a student for each course are to be pro-rated to 50 marks.
- The End Semester Examination (ESE) for ALL theory courses will not be held.

- For each student, 50% of SGPA of the immediate previous 1st/3rd/5th Semester subtracted by 0.5 (SGPA to % conversion) will award 50 marks for each theory course. MIS will generate this component. The relative grading will be applied to the total 100 marks {T1 and T2 out of 40, pro-rated to 50 by MIS and 50 marks derived from SGPA (by MIS)}.
- If a student is dissatisfied with his/her grade for any course, he/she can appear for a grade improvement ESE (Paper-pen based) of the even term course in Dec.-2020 for 50 marks as replacement to SGPA component of June-July Exam.

After discussing the assessment pattern of the theory courses for the 2nd, 4th, 6th semesters of B.Tech and 2nd semester M.Tech courses, the Dean Academics discussed on the assessment criteria of the practical courses. She informed everyone that on an average, 66% of experiments/assignments were completed before closing of the campus on 14th March 2020. The proposal went as follows:

- The continuous evaluation (CIE) for completed assignments till 14th March will be considered out of 25 marks.
- The faculty in charge of the course will conduct an Online-off campus Oral Test (OOT) for 25 marks covering the assignments completed till 14th March. The teacher is expected to conduct OOT by 14th June 2020. There will not be any on-campus Practical Oral Examination for these semesters.
- For each student, 50% of SGPA of the immediate previous 1st/3rd/5th Semester subtracted by 0.5 (SGPA to % conversion) will be awarded out of 50 marks for each practical course. MIS will generate this component.
- The relative grading will be applied to the total 100 marks {CIE and OOT out of 50 and 50 marks derived from SGPA (by MIS)}.
- There will not be any improvement ESE for any practical course in Dec.-2020.

Dr. Amol Patil expressed his concern about the employability aspects of students after automatic promotion to next semester without conducting proper examinations. Prof. Ahuja replied that surely it is a big concern, but the situation has made the policy and decision makers to feel helpless and adhering to the statutory norms, announced by regulatory authorities, in spirit.

Further, the Dean Academics shared the date-wise plan of action (POA) for the declaration the results and commencement of the next semester.

- The DUPC/DPPC grading meeting will be held on July 9th -10th and results will be declared by 12th July 2020.
- All lower semester students shall be promoted respectively to 3rd/5th/7th of AY 2020-21 (Aug.-Dec.).
- The students can send their branch Change application from 13th July to 14th July and the Institute shall declare the branch change declaration on 15th July 2020.
- The ONLINE semester credit registration will take place between July 16th and 17th July based on the existing norms of COEP semester credit registrations.

- The central allotments of courses (ILOE/LLC) in MIS will be done by 19th July 2020. The online instructions for theory courses for odd semester of AY 2020-21 will commence from 20th July 2020.
- There will be no immediate re-examination for failed theory courses. An improvement ESE for the theory courses will only be conducted in Dec. 2020. This year there will be no summer term for the First Year students.
- Thus, the students will not report to campus to complete their examinations which will safe guard their health and safety. All exams/Tests will be conducted in online-off campus mode, be recorded by faculty for documentation purposes and for avoiding impersonation.

R-AC-4/01/2020: The members RESOLVED to APPROVE the above discussed proposal on the revised Academic Execution Plan, with the novel Students' Assessment Plan, in particular, presented by the Dean Academics for the 8th semester B.Tech and 4th semester M.Tech students, 2nd, 4th and 6th semesters of B.Tech and 2nd semester of M.Tech courses, distinctly and the declaration of results and commencement of the new academic year.

The Dean Academics thanked all the members for attending the meeting and declared the meeting concluded. The meeting ended with the vote of thanks to the Chair.

Prof. Jibi Abraham
Member Secretary

Minutes of 5th Academic Council Meeting

Date: 20th June 2020, 2:30 pm onwards

Venue/Platform: Microsoft Teams (Online)

Agenda

Item. No.	Item
1	Confirmation of the Minutes of the 4th Academic Council meeting held on 19th May 2020.
2	Presentation of Academic Calendar for the AY 2020-21 by Dean Academics to seek approval thereon.
3	Curriculum Revision: 2019-22: Second Year B.Tech/B.Planning/M.Tech Robotics and AI/MBA/PGDRMT, to be implemented w.e.f. AY 2020-21; Detailed Syllabi (Cursory) Presentations by the Heads of the Departments.
4	A Presentation on "Activity Event Grade Points Scheme" by Associate Dean-Student Affairs
5	Any other point with the permission of the Chair: • Renaming of Department of "Production Engineering and Industrial Management' to "Manufacturing Engineering and Industrial Management" • Seeking approval to postpone 'OOE' for final year UG/PG

The 5th Academic Council meeting commenced with the formal welcome of all the members of the Academic Council by Prof. Jibi Abraham, the Dean Academics. She informed everyone that in addition to the academic council members, six UG and two PG students have also joined the meeting and will be representing the students' community of their respective departments from this meeting onwards.

Item No.-01: Confirmation of the minutes of 4thAcademic Council meeting dated 19th May 2020:

The minutes of the 4thmeeting of the Academic Council held on 19th May 2020 were placed before the members for confirmation and approval. The minutes of the previous meeting were approved by all the members. Dean Academics informed everyone that the assessment of the students, for the even term of AY 2019-20, has been accomplished, in the novel mode, in this difficult times, as per the decisions made in the previous meeting except that of the final year students. The final year students were supposed to take their final examination in the month of June which has been postponed, owing to the decision announced by the Government of Maharshtra vide their GR dated 19th June2020.

R-AC-5/1/2020: The members RESOLVED to APPROVE the Minutes of the 4th meeting of the Academic Council of the Institute held on 19th May 2020.

Item No. - 02: Presentation of the Academic Calendar for the AY 2020-21 by the Dean Academics:

Dean-Academics presented the proposed academic plan, which would take a shape of formal Academic Calendar, for the Academic year 2020-21. She informed everyone that the new semester of the 2nd, 3rd, 4th year B.Tech and 2nd year M.Tech students will commence from 20th July online. The proposed instruction plan is "Online Education" for ALL Theory courses, wherein, students will have video streaming as per time table and subsequently students can view the as recorded video sessions of 4 hours lectures for every theory course of 3 credits for the initial 8 weeks of the semester, the 4th hour every week being reserved for solving students' difficulties, and clarifying their doubts, based on the 3 hours sessions delivered in that week. The students will be given 8 assignments (one assignment per week) to be submitted by the students before succeeding Sundays, with a mandate of minimum 6 assignments, with, being assessed for gradation purposes. If the situation normalizes, the students are expected to report to the campus on 14th September 2020. The Dean further apprised everyone that the students will have tutorial based revision every week for the next three consecutive weeks, for Units 1, 2 and 3, after reporting to campus. The performance of the students in these tutorials will be assessed out of 10 marks as part of their internal Test 2. The students will have their first mid semester examination from Oct 12 to Oct 14 2020 as equivalent to Test 1 covering portions of Units 1, 2 and 3. The students will then have tutorial based revision of the units

4, 5 and 6 for the next three weeks. The performance of the students in these tutorials will be assessed out of 10 marks as part of their internal Test 2. The students will have their lab sessions simultaneously. The students will be graded out of 40 marks for their internal assessment based on their performance tutorials (20 marks) and mid-semester examination (20 marks).

The first year UG/PG students will be expected to join the campus on 14th September and they will receive around 12 weeks of academic inputs. The Dean informed everyone that all Saturdays would need to be made as instruction-days for the first year students to complete the syllabus. The Test 1 of the first year students will be conducted from 12th October to 14th October. They will have their Test 2 from 19th November to 21st November 2020.

All the students will have their practical/oral examinations before their theory examination in December. The re-examination for the odd semester of AY 2020-21 and the Improvement Examination for the even semester of AY 2019-20 will be conducted during December, 2020 - January 2021. The Mind Spark and Impression events will be scheduled by end of December if depending on the Pandemic situation and Government norms, she concluded.

Prof. Salil Kulkarni asked if the college has thought about an alternative plan in case the students are not able to report to the college at all. Prof. Sanjay Dhande advised the institute to be ready with two versions of the academic calendar, one with students on the campus and the other with students off the campus, the whole semester. Prof. Suhas Joshi suggested that there should be a proper plan for online teaching of practical/lab courses in such a unprecedented scenario. The videos of practical/lab sessions can be recorded, on the lines of theory courses and shared with the students in case the students are not able to come to college at all during the odd semester. Prof. Salil Kulkarni advised shifting all the theory courses of even semester of AY 2020-21 also to the odd semester and all practical courses of both semesters in the second semester to address this issue, as another logical alternative.

Prof. Suhas Joshi raised a very important concern regarding the plan of conduction of the examinations in the semester. The examinations have to be planned very carefully and innovatively if the mode is online, he said. One of the experts suggested that there is a possibility that some students do not have access to laptops and internet due to the socio-economic conditions they live in. Dean Academics informed everyone that more than 85% students have all the facilities available to them as per the survey conducted, by the Institute, during April 2020. Furthermore, all the lectures will be recorded on a LMS system and shared with the students so that they can listen to them whenever they have internet connectivity. During the online assessments of even semester of AY 2019-20, it is

realized that around 2-3% students only have problem of connectivity. Such students are very less in number and they can be called to stay in the hostel and study the lessons online from the hostel lab. The experts suggested the institute to plan the entire semester online.

The Dean, thereafter, presented the proposed the Academic Calendar for the even semester for the academic year 2020-21. She informed everyone that there will be changes as per the situation then. She said that the institute will have to be ready with three different Academic Calendars. Dr. Vishwas Udpikar suggested having different plans for UG and PG students as PG students are more mature in handling the technology. The Director of the institute, Prof. Ahuja agreed to what Dr. Udpikar advised, and suggested to have different plans for FY B.Tech ad FY M.Tech students. The Director further reiterated that less than 5% students face problems with internet connectivity and they can be called on the campus and live in the hostel following the rules of social distancing. They are very less in number, i.e., around 200 students. These students can learn online from the hostel lab, he endorsed.

Dr. Sanjay Dambhare suggested that the FY B.Tech and FY M.Tech courses will start on 14th September and they can be conducted completely online as rightly suggested by the experts. One of the experts suggested that online lectures are concentrated in nature, and may prove to be a heavy capsule of information/knowledge for the learners and 4 lectures in a week will be thus heavier for the students. It was further suggested to conduct lesser number of lectures and one of the lectures can focus on discussions/Doubts clearing/Tutorial. The faculty members should follow a step by step approach in delivering the contents. The Dean informed that the tutorials are scheduled after 14th September where the students can get their doubts solved from their teachers. The experts agreed to this and said that the situation is new to all of us and we should try everything possible.

Prof. Dhande also suggested that there should be training given to the faculty members to be able to conduct online teaching more effectively. It was informed to the experts that the faculty members have used the last few months in learning and practicing the online tools/platforms while delivering regular lecture sessions, webinars and FDP sessions. The Dean further informed him the institute has been practicing recorded video lecturing through the installed "Impartus" recording facility, since last two years, and many faculty members are well-versed with the recording techniques.

Dr. Amol Patil suggested conducting an ICT infrastructure review, whereas, Prof. Dhande suggested undertaking it again at the time of registration. The Director informed everyone that the institute is working on the procurement of or subscription to possible proprietary online platforms that can be used for Online teaching-learning.

Prof. Dhande raised a very important issue of the loss of interaction/bondage between teachers and students, when Online mode of Teaching-Learning is being practiced. He appealed everyone to discover ways of improving this interaction in future. The Director suggested making the teaching more interactive by asking questions, posing surprise quizzes, etc., during the online sessions, which students can answer them online. This helps in building the rapport between the teacher and students, he said..

Prof. Dhande strongly suggested that the training of the teachers and orientation of the students are very important for this new normal in Education. He said that every teacher must undergo some enhancing course on 'Online education'. When the paradigm of education is changing, the teachers need to change our pedagogy accordingly, he added.

The experts advised the institute to plan the odd semester based on the suggestions given in the meeting and the even semester academic calendar will be discussed in the next meeting.

R-AC-5/2/2020(a): The members RESOLVED to APPROVE that the institute should have multiple versions of the academic calendar ready and primarily focus on having the entire odd semester online and plan accordingly. It was further RESOVED to undertake the ICT infrastructure review (for the online enablement of the teachers and students) before the onset of the registration process.

R-AC-5/2/2020(b): The members further RESOLVED to APPROVE the Online teaching pedagogy trainings for all teachers.

ItemNo.03: Curriculum Revision: 2019-22: Second Year B.Tech/B.Planning/M.Tech AI and Robotics/MBA/PGDRMT, to be implemented w.e.f. AY 2020-21; Detailed Syllabi (Cursory) Presentations by the Heads of the Departments.

Dean Academics informed the members about the major reforms in the curriculum as a part of the 5th iteration of its revision. The FY B.Tech students were introduced to the new courses such as 'Design Thinking' and 'Introduction to the Scientific Computing tools' in the Academic Year 2019-20. To encourage the interdisciplinary learning aspects, the Institute has introduced Interdisciplinary Foundation Courses (IFC) and Interdisciplinary Open Courses (IOC) from the 3rd semester onwards. She further informed that the B.Tech students will start studying three IFC Courses from 3rd semester where they will register for a course offered by another department. In case of Interdisciplinary Open Courses, a student shall give his/her preferences to opt for a course and institute will allocate the course based on their current CGPA. There will be an IOC in 6th semester on Engineering/Science disciplines and another in 7th semester on

Management. Also the Humanities Open Elective courses of third year are revised to follow two categories such as languages based and other humanities areas. The final year course on Project work is reformed to include two schemes: Scheme A and Scheme B.

In the third semester, the E group students will be introduced to the courses in 'Professional Law, Ethics, Values and Harmony' and 'Interdisciplinary Foundation Course' along with the other regular courses. The M group students will facilitated with an IFC along with the other regular courses. This structure will be swapped in the fourth semester. In addition to this, the fourth semester, a new course in 'Rapid Prototyping Practice' (an "I-D-P: Ideate-Develop- Prototype" team Micro-project) is being introduced. The Dean further presented a list of the IFCs decided to be offered by different departments. She further informed everyone regarding the additional courses to be undertaken by the lateral entry students (Diploma Students) in the third and fourth semesters.

The Heads of all the departments presented the detailed syllabi of the their respective Second Year B.Tech Engineering, to be implemented w.e.f. AY 2020-21.Prof. Ranadive presented the detailed syllabus of Civil Engineering. The syllabus indicated that the interdisciplinary foundation course will have two lectures. The Director informed him that all the IFCs have two credits and should consist of 1 lecture and 2 lab sessions.

Prof. Salil Kulkarni raised a concern that it might be very early for the students to learn interdisciplinary courses in the third semester itself. Dr. Sonawane, HoD-Instrumentation, informed Dr. Kulkarni that the IFCs have been made lighter so that the students of other departments can follow them easily.

One of the experts asked whether the syllabus for the course 'Biology for Engineers' is the same for all the departments. He wished to know if there is any change in the syllabus depending on the requirements of the respective department. Mrs. Nandini Iyer, the Head of the Applied Sciences, informed everyone that out of the 6 units of the course, the first four units are same for all the departments. However, the last two units are tailor-made according to the requirements of the respective departments.

Dr. Vahida Attar presented the detailed syllabus of second year B.Tech Computer engineering. Dr. Sachin Lodha opined that the syllabus of the Data Structures and Algorithms course will be quite heavy for the students. He further suggested that this paper can divided into two parts and taught in two semesters rather than one semester.

Dr. Sanjay Dambh are presented the detailed syllabus of second year B.Tech Electrical engineering. Dr. Mahajan presented the detailed

syllabus of second year B.Tech Electronics and Tele Communication. Dr. Sonawane presented the detailed syllabus of second year B.Tech Instrumentation. Dr. Nandagaonkar presented the detailed syllabus of second year B.Tech Mechanical Engineering. Prof. Butee presented the detailed syllabus of second year B.Tech Metallurgy.

Mrs. Nandini Iyer presented the detailed syllabus of the newly introduced Master of Business Administration (MBA) Programme. Prof. Pantawane presented the detailed syllabus of the FY M.Tech course in Artificial Intelligence and Robotics. Dr. Amol Patil suggested that the first year curriculum of this programme should consist of a laboratory course related to Artificial Intelligence.

Prof. Ranadive presented the detailed syllabus of the Post-Graduate Diploma is Rail and Metro Technology (PGDRMT). He proposed that the first semester will focus on Rail technology and the second semester will focus on Metro technology. The Director suggested that the programme should consist of some basket of electives. He also opined that there should be some modules of basic courses in the syllabus. Prof. Ranadive agreed with the Director for the same and said that the department will try to incorporate some IFC courses in the course structure.

R-AC-5/3/2020: The members RESOLVED to APPROVE the curriculum revision and the SY detailed syllabi presented to be implemented w.e.f. AY 2020-21 with the changes decided in the meeting. It was further decided that the Interdisciplinary Foundation Course will have one lecture and two practical sessions, depending on the nature of IFC being offered.

Item No. - 04: Activity Event Grade Points Scheme by Dean Student Affairs:

Dr. Dhamangaonkar, the Associate Dean Student Affairs, presented the proposed 'Activity Event Grade Point Scheme.' He proposed that every student should participate at least in one co-curricular or extra-curricular activity in one semester. The students will get points and marks for the same. Prof. Salil Kulkarni strongly suggested that it would add to the stress levels of the students if we make these activities mandatory for them. The Director agreed with Dr. Kulkarni and said that we need to remodel this scheme in such a way that the students will be pleased to engage in these activities. Prof. Anil Kulkarni suggested that it is a good idea to encourage students in participate such activities, but they shouldn't be given marks for the same. Prof. Suhas Joshi suggested giving some qualitative remarks instead of marks or grades on the certificates of the students.

R-AC-5/4/2020: It was decided that this scheme will be revised/ remodeled and sent to Prof. Salil Kulkarni and Prof. Anil Kulkarni for further approval.

Item No. - 05: Any other point with the permission of the Chair:

1: Renaming of Department of "Production Engineering and Industrial Management' to "Manufacturing Engineering and Industrial Management":

Dean Academics, presented the proposal to rename the department of "Production Engineering and Industrial Management' as "Manufacturing Engineering and Industrial Management". The department of "Production Engineering and Industrial Management' currently has the following UG/PG programs

- B.Tech Manufacturing Science and Engineering
- M.Tech Manufacturing Engineering and Automation
- M.Tech Mechatronics
- M.Tech Project Management
- M.Tech Robotics and Artificial Intelligence

Since the department majorly offers the programs related to the domain of Manufacturing Engineering and Industrial Management, Dean-Academics proposed that the department of "Production Engineering and Industrial Management' to be renamed as "Manufacturing Engineering and Industrial Management."

R-AC-5/5-1/2020:The members RESOLVED to APPROVE the change in the name of the Production Engineering and Industrial Management department to "Manufacturing Engineering and Industrial Management."

2: Seeking approval to postpone the "OOE" for final year UG/PG

Dean-Academics further informed everyone that the End Semester Examination of the final year UG and PG students that was to be scheduled to commence from 22nd June 2020, need to be postponed as per the latest GR issued by the Government of Maharashtra on 19th June 2020 towards Planning of Examinations for Final Year UG and PG. The GR instructs to CANCEL the Final Year Examinations for Students of Traditional Programs (Arts/Science/Commerce), subject to a Voluntary Option from the STUDENT, as follows:

- If a student decides to pass out the Final semester WITHOUT taking examination, he/she is required to give a relevant CONSENT in writing and needs to accept the norms declared by the University/Institute, on declaration of Grades and Results.
- If a student OPTS to appear for the Final semester examination, he/she is required to INFORM in writing, to the Institute and accept the SCHEDULE of Exams, announced by the Local Authorities, University and the Institute.
- Decision about examinations of backlog courses will be announced by the Government.
- For Professional Programs, the above-mentioned decisions have been communicated by the Government to the National Apex authority

Body (i.e. AICTE in our case), for further APPROVAL on the Decisions.

Hence the Dean Academics requested the Academic Council to approve the following decision:

"The ESE Examinations for Final Semesters of B.Tech and M.Tech, decided to be conducted in 'Online-Off-campus-Mode (OOE), and scheduled to commence from 22nd June 2020 will be POSTPONED until further notice, in this regard, and after receiving relevant clarification from Apex Body-AICTE, SPPU and Govt. of Maharashtra.

R-AC-5/5-2/2020: The members RESOLVED to APPROVE the above-mentioned decision towards postponement of the End Semester Examination for the final year UG/PG, planned to be conducted in novel "Online-Off-campus-Mode (OOE)" and scheduled to commence from 22nd June 2020.

The Dean Academics thanked all the members for attending the meeting and declared the meeting concluded. She further informed everyone that the next Academic Council meeting will be held on 1st August 2020. The meeting ended with the vote of thanks to the Chair.

Prof. Jibi Abraham
Member Secretary