

Maharshi Karve Stree Shikshan Samstha's  
**CUMMINS COLLEGE OF ENGINEERING FOR WOMEN**  
(an autonomous institute affiliated to Savitribai Phule pune university)  
Karvenagar, Pune - 411 052.

Ref : CCEW/AC/26/2022-23

Date : 16<sup>th</sup> March, 2023

The Online / Offline meeting of Academic Council of MKSSS's Cummins College of Engineering for Women was conducted on 11<sup>th</sup> March, 2023 at 10.30 a.m. in the Conference Hall (3<sup>rd</sup> Floor) of Mechanical Building of MKSSS's Cummins College of Engineering for Women, Pune.

(i) Following Academic Council members were present for the meeting in person.

- |  |                                     |
|--|-------------------------------------|
| (01) Dr. Madhuri Khambete              | (02) Dr. Kalyani Joshi              |
| (03) Dr. Nilesh Powar                  | (04) Dr. Bhalchandra Puranik        |
| (05) Dr. Prachi Mukherji               | (06) Dr. Anagha Panditrao           |
| (07) Dr. Anagha Kulkarni               | (08) Dr. Gautam Chandekar           |
| (09) Dr. Madhuri Purandare             | (10) Dr. Ajit Bhosale               |
| (11) Dr. Sunita Jahirabadkar           | (12) Dr. Sandeep Musale             |
| (13) Prof. Ashutosh Muchrikar          | (14) Dr. Anita Patil                |
| (15) Prof. Amit Rajurkar               | (16) Dr. Makrand Velankar (Invitee) |
| (17) Dr. Sandhya Arora (Invitee)       | (18) Prof. Vishal Deore (Invitee)   |
| (19) Prof. Manjiri Kolhatkar (Invitee) |                                     |

(ii) Following Academic Council members attended meeting online using Google meet.

- |                     |                       |
|---------------------|-----------------------|
| (20) Dr. B.B. Ahuja | (21) Dr. Sunil Thakre |
|---------------------|-----------------------|

(iii) Dr. Anand Bewoor communicated his inability to attend the meeting.

(iv) Dr. Pradeep Kurulkar, Dr. Ajay Deshmukh, Dr. Vikram Athalye & Dr. Supriya Kelkar could not attend the meeting. Their absence was approved by the Academic Council.

Principal Dr. Madhuri Khambete welcomed all the Academic Council members present for the meeting in person or online.

Following points were discussed and decisions were taken in the meeting:

- Point No. 1] To confirm the minutes of the previous Academic Council meeting held on 5<sup>th</sup> August, 2022.
- Discussion : Dr. Ajit Bhosale presented the Minutes of previous Academic Council Meeting.
- Decision : Minutes of the previous Academic Council meeting held on 5<sup>th</sup> August, 2022 were confirmed.



Point No. 2] To update about grant of NBA accreditation status.

Discussion : Head of the Departments informed the Academic Council members that an expert team of NBA conducted onsite evaluation of the 4 U.G. programs from 11<sup>th</sup> to 13<sup>th</sup> November, 2022.

- Marks of the summary of evaluation report submitted by expert team is as follows,

Cr. No.	Criteria Title	Marks Max.	B.Tech. programs			
			E&TC Engg.	Comp. Engg.	Mech. Engg.	Instru& C Engg.
1	Vision, Mission and Program Educational Objectives	50	Y (38)	Y (39)	Y (38)	Y (40)
2	Program Curriculum and Teaching-Learning Processes	100	C (67)	Y (78)	Y (75)	Y (79)
3	Program Outcomes and Course Outcomes	175	C (128)	Y (133)	C (112)	Y (132)
4	Students' Performance	100	Y (83)	Y (86)	Y (85)	C (69)
5	Faculty Information and Contributions	200	C (129)	W (108)	C (132)	W (111)
6	Facilities and Technical Support	80	Y (64)	Y (62)	Y (60)	Y (69)
7	Continuous Improvement	75	C (53)	C (54)	C (46)	C (48)
8	First Year Academics	50	Y (41)	Y (42)	Y (41)	Y (41)
9	Student Support Systems	50	C (35)	C (35)	C (35)	C (35)
10	Governance, Institutional Support, and Financial Resources	120	Y (94)	Y (93)	Y (92)	Y (91)
	<b>Total</b>	<b>1000</b>	<b>732</b>	<b>730</b>	<b>716</b>	<b>715</b>

- On the basis of evaluation report submitted by expert team, the competent authority in NBA has approved the following accreditation status to the programs as given in the table below.

SN	Name of the Program (UG)	Basis of Evaluation	Accreditation Status	Period of Validity
1	Computer Engineering	Tier – I January 2016 Docs.	Accredited	Academic Years 2022-2023 to 2024-2025 i.e. upto 30/06/2025
2	Instrumentation & Control Engineering		Accredited	
3	Mechanical Engineering		Accredited	
4	Electronics & Telecommunication Engineering		Accredited	

Decision : All the members appreciated efforts of Principal madam, Hod's and Faculty and Staff for getting accreditation by NBA.



Point No. 3]  
Discussion :

To get approval for revisions in curriculum structure of First Year.

- Dr. Ajit Bhosale presented revised structure of F.Y. B.Tech. to be followed from 2023-24 as follows:

Programme Structure Proposed (Revision-I)									
F.Y. B.Tech. Sem-I									
Computer Engineering, Information Technology / Electronics & Telecommunication Engineering and Instrumentation & Control Engineering									
A.Y. 2023-24 Onwards									
Course Code	Course Title	Teaching Scheme Hours / Week			Examination Scheme			Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Practical / Oral		
20BS01	Linear Algebra and Univariate Calculus	3	1	0	50	50	0	100	4
20BS02 / 20BS04	Chemistry / Physics	3	0	0	50	50	0	100	3
20ES01 / 20ES04	Basic Electrical and Electronics Engineering / Engineering Graphics	3	1	0	50	50	0	100	4
20ES02	Fundamentals of Programming Language- I	3	0	0	50	50	0	100	3
20BS02L / 20BS04L	Chemistry Lab / Physics Lab	0	0	2	25	0	0	25	1
20ES01L / 20ES04L	Basic Electrical and Electronics Engineering Lab / Engineering Graphics Lab	0	0	2	25	0	0	25	1
20ES02L	Fundamentals of Programming Language- I Lab	0	0	2	25	0	0	25	1
20ES07L	Technical Skill Development Lab	0	0	2	25	0	0	25	1
20AC01	Audit Course (Self-Expression)	0	0	2	0	0	0	0	0
<b>Total</b>		<b>12</b>	<b>2</b>	<b>10</b>	<b>300</b>	<b>200</b>	<b>0</b>	<b>500</b>	<b>18</b>
<b>Grand Total</b>		<b>24</b>			<b>500</b>			<b>500</b>	<b>18</b>

Programme Structure Proposed (Revision-I)									
F.Y. B.Tech. Sem-II									
Computer Engineering, Information Technology / Electronics & Telecommunication Engineering and Instrumentation & Control Engineering									
A.Y. 2023-24 Onwards									
Course Code	Course Title	Teaching Scheme Hours / Week			Examination Scheme			Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Practical / Oral		
20BS03	Multivariate Calculus	3	1	0	50	50	0	100	4
20BS04 / 20BS02	Physics / Chemistry	3	0	0	50	50	0	100	3
20ES04 / 20ES01	Engineering Graphics / Basic Electrical and Electronics Engineering	2	1	0	50	50	0	100	3
20ES03	Sustainable Engineering	3	1	0	50	50	0	100	4
20ES05	Fundamentals of Programming Language-2	3	0	0	50	50	0	100	3
20BS04L / 20BS02L	Physics Lab / Chemistry Lab	0	0	2	25	0	0	25	1
20ES04L / 20ES01L	Engineering Graphics Lab / Basic Electrical and Electronics Engineering Lab	0	0	2	25	0	0	25	1
20ES05L	Fundamentals of Programming Language-2 Lab	0	0	2	25	0	0	25	1
<b>Total</b>		<b>14</b>	<b>3</b>	<b>6</b>	<b>325</b>	<b>250</b>	<b>00</b>	<b>575</b>	<b>20</b>
<b>Grand Total</b>		<b>23</b>			<b>575</b>			<b>575</b>	<b>20</b>



Programme Structure Proposed (Revision-I)									
F.Y. B.Tech. Sem-I									
Mechanical Engineering									
A.Y. 2023-24 Onwards									
Course Code	Course Title	Teaching Scheme Hours / Week			Examination Scheme			Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Practical / Oral		
20BS01	Linear Algebra and Univariate Calculus	3	1	0	50	50	0	100	4
20BS04	Physics	3	0	0	50	50	0	100	3
20ES02	Fundamentals of Programming Language- I	1	0	0	00	25	0	25	1
20ES04	Engineering Graphics	2	1	0	50	50	0	100	3
20ES05	Introduction to Mechanical Engineering	3	0	0	50	50	0	100	3
20BS04L	Physics Lab	0	0	2	25	0	0	25	1
20ES04L	Engineering Graphics Lab	0	0	2	25	0	0	25	1
20ES02L	Fundamentals of Programming Language- I Lab	0	0	2	25	0	0	25	1
20ES07L	Technical Skill Development Lab	0	0	2	25	0	0	25	1
20AC01	Audit Course (Self-Expression)	0	0	2	0	0	0	0	0
<b>Total</b>		<b>12</b>	<b>2</b>	<b>10</b>	<b>300</b>	<b>225</b>	<b>0</b>	<b>525</b>	<b>18</b>
<b>Grand Total</b>		<b>24</b>			<b>525</b>			<b>525</b>	<b>18</b>

Programme Structure Proposed (Revision-I)									
F.Y. B.Tech. Sem-II									
Mechanical Engineering									
A.Y. 2023-24 Onwards									
Course Code	Course Title	Teaching Scheme Hours / Week			Examination Scheme			Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Practical / Oral		
20ES01	Basic Electrical and Electronics Engg.	3	1	0	50	50	0	100	4
20BS03	Multivariate Calculus	3	1	0	50	50	0	100	4
20BS02	Chemistry	3	0	0	50	50	0	100	3
20ES05	Engineering Mechanics	2	1	0	50	50	0	100	3
20ES03	Sustainable Engineering	3	1	0	50	50	0	100	4
20BS02L	Chemistry Lab	0	0	2	25	0	0	25	1
20ES01L	Basic Electrical and Electronics Engg. Lab	0	0	2	25	0	0	25	1
20ES05L	Engineering Mechanics Lab	0	0	2	25	0	0	25	1
<b>Total</b>		<b>14</b>	<b>4</b>	<b>6</b>	<b>325</b>	<b>250</b>	<b>00</b>	<b>575</b>	<b>21</b>
<b>Grand Total</b>		<b>24</b>			<b>575</b>			<b>575</b>	<b>21</b>

- Considering the feedback of Industry and students in the revised structure theory hours of Fundamentals of programming language-I are increased from one hour to three hours for Computer Engineering, Information Technology, Electronics & Telecommunications & Instrumentation & Control Engineering.



- New course 'Introduction of in Mechanical Engineering' is introduced for Mechanical Engineering stream.
  - Considering students' and faculty feedback one hour tutorial session per week is added for the course 'Basic Electrical and Electronics Engineering.
2. Dr. Bhalchandra Puranik supported for increase in credits of Fundamentals of programming language-I. He said that it will help to develop better concepts of the subject.
  3. Dr. Nilesh Powar said that programming skills are very important and increasing lecture hours will help to cover topics in depth.

Decision : Permission is granted to revise the structure as above.

Point No. 4] To get approval for revision in content of following FY B.Tech. theory courses.

- 1) 'Sustainable Engineering'
- 2) 'Fundamentals of Programming Language-I'

Discussion :

- 1) Sustainable Engineering:-
  - a) Prof. Vishal Deore presented syllabus of First Year 'Sustainable Engineering'.
  - b) Dr. Sunil Thakare suggested adding topic related to disaster management with examples.
  - c) Dr. Nilesh Powar suggested arranging expert-lectures on Carbon Footprint. He also added that, if required, he may help to arrange expert lectures.
- 2) Fundamentals of Programming Language-I
  - a) Dr. Sandhya Arora presented proposed syllabus of theory course Fundamentals of Programming Language-I and corresponding lab course .
    - (i) Dr. B.B. Ahuja suggested changing the title of course as 'C Language Programming'.

Decision :

- 1) It is decided to add topic related to disaster management in the Sustainable Engineering. It is decided to arrange expert lectures on some topics including carbon footprint.

- 2) It is decided to change the title of theory course 'Fundamentals of Programming Language-I' as 'C Programming' and corresponding lab course as 'C Programming Laboratory'.

It is also decided to change the title of theory course 'Fundamentals of Programming Language – II' offered in Second Semester as 'Java Programming' and corresponding laboratory course as 'Java Programming Laboratory'.

- 3) Approval was granted for content revision with the above changes.



Point No. 5] To get approval for the new theory course contents '*Introduction to Mechanical Engineering.*'

Discussion : 1) Dr. Gautam Chandekar, presented the contents of new theory course  
2) Dr. Bhalchandra Puranik appreciated the contents. He suggested to replace 'IC Engine 4 stroke cycle' topic by thermodynamic power cycles. He also suggested discussing emerging application in real life while teaching the course.

Decision : Permission is granted to the course and course contents of '*Introduction to Mechanical Engineering.*' with the modifications as per the suggestions given by Prof. Puranik.

Point No. 6] To get approval for revision in course in contents of following SY and TY B.Tech. Theory courses.

- 1) Mechanical Engg. [SY, TY and Final Yr. BTech theory courses]
- 2) Information Tech. [SY and TY BTech theory courses]
- 3) E&TC Engg. [SY and TY BTech theory courses]

Discussion : 1) Dr. Gautam Chandekar proposed changes in SY BTech structure and revision in course contents of SY, TY and Final Yr. B.Tech. Mechanical Engg courses as follows.

**a) Proposed changes in SYBTech structure :**

- i. Contact hours of the lab course , 'Computer Aided Machine Drawing lab' in sem III to be reduced from 4 hours / week to 2 hrs / week.
- ii. Introduction of new lab course 'Python for Mechanical Engineers' in SYBTech sem-IV. Contact hours for the new course 2 hrs / week

**b) Proposed revision in course contents**

- i. Revision in 'Computer Aided Machine Drawing lab' syllabus was presented.
- ii. Name of 'Automation and Control Engineering' is to be changed to 'Introduction to Hydraulic System'. This course is proposed in collaboration with Danfoss. This course is open for students of any branch. The syllabus of this course was discussed.

**(c) Proposed contents of new courses**

- i. Syllabus of newly proposed course 'Python for Mechanical Engineers Lab' was discussed. Dr. Nilesh Powar appreciated the course contents.
- ii. Syllabus of newly proposed Program Elective 'Intelligent Hydraulic Systems' to be offered in the eighth semester was discussed.



Discussion :

- 2) Dr Anagha Kulkarni, proposed revisions in the following courses in SY and TY BTech theory courses as given below.

Following course-wise revisions were presented in Academic Council meeting:

- (i) Operating Systems  
Removal of sed and Perl scripting. Giving more stress on Shell scripting. Removal of test and set mechanism for critical section handling.
- (ii) Database Management Systems  
Removal of Data Warehousing and data mining contents (as they are covered in Business Intelligence) and giving more stress on Concurrency control mechanism. Query optimization is removed.
- (iii) Cloud Computing  
Contents are reorganized according to infrastructure-as-a-service, Platform-as-a- service, software-as-a-service. Details about CloudSim simulator are added.
- (iv) Design Thinking  
Contents related to Innovation are added.

- 3) Dr. Prachi Mukherji, presented proposed revisions in course contents of SY and TY BTech theory courses as below.

- (i) SY : 'Analog and Digital Communication  
The sixth unit "Optimal Reception of Digital Signal" is to be deleted as course contents are too heavy.
- (ii) TY : Introduction to Internet of Things  
Unit II: Machine to Machine to Internet of Things, addition of topic "Software Define Networking (SDN) and Network Function Virtualization (NFV) for IoT" is proposed
- (iii) TY : Computer Vision  
This is open elective course. Addition of unit on 'Image processing' is proposed. It is also proposed to delete unit-bits related to Camera calibration.

- 4) Dr. Nilesh Powar appreciated the addition of SDN and NFV in the syllabus.

Decision :

- (i) Approval is granted to the proposed changes in SY, TY and Final Yr. BTech Mechanical Engineering theory courses
- (ii) All the proposed changes in SY and TY BTech Information Technology theory courses are approved.
- (iii) Approval is granted to the proposed changes in SY, TY. BTech Electronics & Telecommunications.



Point No. 7] To discuss moderation rules for the courses showing extremities in the evaluation.

Discussion :

- Dean examinations, Dr. Ajit Bhosale, proposed provision of assessment moderation in case of extremities in the evaluation i.e. more failures or higher grades compared to the usual result trends.
- Dr. B.B. Ahuja asked whether moderation is to be done before the result or after the result. Ajit Bhosale said moderation is expected before the declaration of result to ensure proper course evaluation.
- Prof. Ahuja and Prof. Puranik suggested forming committee for the decision of moderation. HoD of the department offering the course for which extremity is observed; Principal, Dean Academics and Dean Examination should be member of the committee.

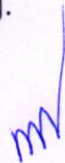
Decision : Permission is granted for the provision of assessment moderation in case of extremity in the result of any course. Decision of moderation is to be taken by the committee comprising of HoD of the department offering the course, Principal, Dean Academics and Dean Examination. It is decided to moderate the assessment before declaration of the result.

Point No. 8] Any other point with the permission of Chair.  
No other point was discussed in the meeting.



Dr. Anand Bewoor  
Dean Academics

Member Secretary - Academic Council  
MKSSS's Cummins College of Engineering for Women  
Karvenagar, Pune.



Dr. Madhuri Khambete  
Principal

Chairman - Academic Council  
MKSSS's Cummins College of Engineering for Women  
Karvenagar, Pune.