



"In Pursuit of Global Competitiveness"
GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD
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GECA/ACAD/XXIIAC/2020 / 1808

Date: 19/08/2020

Minutes of Meeting of XXIInd Academic Council

Date: 13th August 2020 Time: 3.00 p.m.

Mode of Meeting: Online on WebEx

Government College of Engineering,
Aurangabad

Chairman: Dr. P. B. Murnal, Principal, Government College of Engineering, Aurangabad

Member Secretary: Dr. A. A. Bhole, Dean (Academics)

Sub: XXIInd Meeting of Academic Council, dated 13/08/2020

The meeting of the Academic Council was scheduled on 13/08/2020. It was held online on WebEx at 3.00 p.m. Hon. Chairman, members and invitees of Academic Council as below attended the meeting.

Sr.	Name	Designation in AC
1.	Principal	Chairman
2.	Head Civil Engineering	Member
3.	Head Mechanical Engineering	Member
4.	Head Electrical Engineering	Member
5.	Head Electronics & Telecommunication	Member
6.	Head Computer Science & Engineering	Member
7.	Head MCA	Member
8.	Head Information Technology	Member
9.	Head Physics	Member
10.	Head Mathematics	Member
11.	Dean Quality Assurance	Member
12.	Dean Student Activities	Member
13.	Dean Industry Institute Interaction & Alumni	Member
14.	Dean Research and Development	Member
15.	TEQIP Coordinator	Member
16.	Controller of Examinations	Member
17.	Prof. S. R. Hirekhan	Member (Representative of teaching staff)
18.	Dr. P. C. Shetiye	Member (Representative of teaching staff)
19.	Dr. R. N. Ladhwe	Member (Representative of teaching staff)
20.	Dr. S. M. Kabra	Member (Representative of

		teaching staff)
21.	Dr. Gopalkrishna Joshi, Professor & Director, Center for Engineering Education & Research , KLE Technological University, Hubali	Member Nominated by Board of Management
22.	Dr. O.R. Jaiswal, Professor, Applied Mechanics , VNIT , Nagpur	Member Nominated by Board of Management
23.	Mr. Jayant Yawalkar, Bajaj Auto. Ltd. Aurangabad	Member Nominated by Board of Management
24.	Mr. Mukund Kulkarni, Expert Global Solutions Pvt. Ltd. Aurangabad	Member (University Nominee)
25.	Dr. K. M. Jadhav, Department of Physics, Dr. BAMU, Aurangabad	Member (University Nominee)
26.	Dr. Nitin Seth, Prof. IIFT New Delhi	Member Nominated by Board of Management
27.	Dr. Sunil Punjabi	Dean Academics, , Ujjain College of Engineering, Ujjain, Invitee
28.	Prof. Y. K. Joshi, HOD, Computer Science & Engineering	Invitee, Ujjain College of Engineering, Ujjain
29.	Dr. A. S. Khan, HOD, Civil Engineering	Invitee Member
30.	Dr. Vijay Hinge, HOD, Physics	Invitee, Ujjain College of Engineering, Ujjain
31.	Dr. D. K. Sakravdia, HOD, Electrical Engineering	Invitee, Ujjain College of Engineering, Ujjain
32.	Dr. A. K. Mishra, HoD, Chemistry	Invitee, Ujjain College of Engineering, Ujjain
33.	Prof. S. P. Atipamalu	Invitee Member
34.	Prof. A. N. Ghule	Invitee Member
35.	Dr. A. A. Bhole, Dean (Academics)	Member Secretary

Leave of absence was granted to following members.

01.	Dr. P. S. Wakte, Prof. & Head, Dept. of Chemical Technology, Dr. BAMU, Aurangabad	Member (University Nominee)
02.	Mr. Brijesh Kumar, M.D. Walter Tools, Pune	Member Nominated by Board of Management
03.	Dr. ShriKrishna Yogi, MD, Brose India	Member Nominated by Board of Management

Following members were absent.

01.	Head Workshop	Member
02.	Head Chemistry	Member
03.	Head Applied Mechanics	Member

The Chairman Dr. P. B. Murnal initiated the meeting by welcoming honorable members and Invitees of Academic council & declared the meeting **open** and directed Dr. A. A. Bhole,

Dean (Academics) to conduct the proceeding as per agenda.

Following transactions were carried out and noted by the Academic Council.

Item 22.1: Confirmation of minutes of XXIst meeting & action taken report

The minutes and action taken report were presented by the member secretary. Hon. Chairman and members of Academic Council confirmed and approved the minutes and action taken report of XXIth meeting.

Main agenda of XXIInd Academic Council:

Agenda	Resolution
<p>Item 22.2.1: Proposal regarding evaluation procedure adapted for students other than Final year UG/PG due to COVID-19</p> <p>The unprecedented and sudden situation resulted due to COVID-19 has forced some changes in the Academic systems and Calendar for the students of Academic Year 2019-20. When the national lockdown was declared in mid March, 2020, around 70% curriculum was completed and one class test was conducted. The institution immediately switched over to online teaching to complete the curriculum. The faculty adopted various platforms and methodologies to continue teaching. However due to many technical, social and other issues many students were unable to cope up to the system. The faculty members have tried their best to reach to the maximum number of students.</p> <p>But the bigger challenge was to evaluate the students. In view of this a committee was formed to recommend the methodology for the assessment & declaration of results for all the programs in line with the guidelines issued by regulatory bodies and the state government. Accordingly the committee proposed the methodology of assessment for all the students except the final year UG & PG course (for which the guidelines are yet to be declared). The committee deliberated with all the stakeholders & formulated the guidelines in line with the policy declared by the state government. These guidelines are informed to all stake holders and implemented. The guidelines are put before the council for post facto approval (Annexure 22.2.1).</p>	<p><u>Resolution No. AC/ XXII/22.2.1</u></p> <p>Approved. However Mr. Mukund Kulkarni suggested that, in such 'new normal situations', Academic Council members to be connected on email followed by online meetings so that their suggestion / opinion / consent can be taken with quick response time.</p>
<p>Item 22.2.2: Approval to detailed guidelines for Minors & Honors Certification Scheme</p> <p>The proposal for Minors & Honors Certification scheme was approved in XXth Academic Council as per Resolution No. XX/AC/20.2.4. The guidelines were also provided. Departments have come up with Minors &</p>	<p><u>Resolution No. AC/ XXII/22.2.2</u></p> <p>The proposal of detailed guidelines for Minors & Honors Certification Scheme is approved. However Prof. G.H Joshi opined that for success of</p>

<p>Honors Certification program & detailed guidelines are proposed for approval (Annexure 22.2.2).</p>	<p>Minors Program: 1. It should be designed to offer knowledge and skills enhancing EMPLOYABILITY beyond parent discipline of students. 2. Has collaboration with an industry / a cluster of industries right from identification of competency, designing and delivering Curriculum 3. Experiential learning in terms of industry internship and industry offered projects is part of curriculum. 4. Each minor program is approved for a period of 03 yrs only. Continuation is considered based on evaluation of experience and employment market conditions. All BoS chairpersons can discuss the above points in BoS meeting for possible modifications in the curriculum.</p>
<p>Item 22.2.3: Teaching Learning process for odd semester of the academic year 2020-21 As the Covid-19 has not yet receded, institute has decided to change the mode of instruction & evaluation from physical to online mode till the situation normalizes. The proposal is put before the council for information & approval.</p>	<p><u>Resolution No. AC/ XXII/22.2.3</u> Approved.</p>
<p>Proposals from Computer Science and Engineering Department Item 22.2.4: Approval to structure and curriculum of Minors in Data Science The objective to provide Minors in Data Science for students will equip them with understanding of the methods and techniques of data analysis. It will also empower the students with the ability to think critically about the construction and implications of data analysis and models. The minor will be an opportunity to students from various disciplines with a working knowledge of statistics, probability, and computation. This will also help the students not just to participate in data science projects, but to design and carry out rigorous computational and inferential analysis for their field of interest (Annexure 22.2.4).</p>	<p><u>Resolution No. AC/ XXII/22.2.4</u> Approved. However curriculum may be revised to increase the value of the program so as to attract the students. It was suggested to refer the courses offered on MOOCS so as to benchmark the minor program.</p>

<p>Item 22.2.5: Approval of structure and curriculum of Minors in Computer Networks</p> <p>The Minors in Computer Networks provides students with an opportunity to learn how the Internet works. Students will understand the protocols that allow networking devices and systems to communicate. This includes the configuration and management of core networking hardware such as routers and switches. (Annexure 22.2.5).</p>	<p><u>Resolution No. AC/ XXII/22.2.5</u></p> <p>Approved. However curriculum may be revised to increase the value of the program so as to attract the students.</p>
<p>Item 22.2.6: Approval of structure and curriculum of Honors in Data Science and Block Chain Technology</p> <p>In accordance with Academic Council Resolution no 20.2.4, Computer Science and Engineering Department with approval from the BoS has decided to offer Honors in Data Science and Block Chain Technology (Annexure 22.2.6).</p>	<p><u>Resolution No. AC/ XXII/22.2.6</u></p> <p>Approved. However the department can decide launching the program based on the expertise available in the department & demand from the students.</p>
<p>Item 22.2.7: Approval of addition of Web Technology as Open Elective</p> <p>The Department has decided to offer Web Technology as Open Elective as an additional open course for all the UG students. This will enable the students to make use of Internet Marketing and highlight importance of E-Commerce and Mobile Websites (Annexure 22.2.7).</p>	<p><u>Resolution No. AC/ XXII/22.2.7</u></p> <p>Approved.</p>
<p>Item 22.2.8: Approval of replacing CS2012: Advanced Web Technology with CS20XX: Programming with Python</p> <p>BoS has decided to replace CS2012: Advanced Web Technology with CS20XX: Programming with Python for the students of S.Y. B.Tech. Python has a rich programming environment and it is widely used in many scientific areas for data exploration (Annexure 22.2.8).</p>	<p><u>Resolution No. AC/ XXII/22.2.8</u></p> <p>Approved.</p>
<p>Proposals from Electrical Engineering Department</p> <p>Item 22.2.9: Approval to structure and curriculum of the Minors in Electrical Engineering</p> <p>In accordance with Academic Council Resolution no, 20.2.4, it is decided to offer Minors in Electrical Engineering. Additional skills acquired with Minors in</p>	<p><u>Resolution No. AC/ XXII/22.2.9</u></p> <p>Approved. However curriculum may be revised to increase the value of the program so as to</p>

<p>Electrical Engineering will provide students with all the essential tools needed to be a leader in technology and scientific discovery (Annexure 22.2.9).</p>	<p>attract the students.</p>
<p>Item 22.2.10: Approval to structure and curriculum of the Honors in Advanced Electrical Engineering</p> <p>The Honors in Advanced Electrical Engineering offers a unique opportunity for fast learning students who have demonstrated excellence in the major of electrical engineering. The objective of the program is to promote academic excellence in the major by offering fast learning students more advanced level of study, to merit the fullest possible use of their creative abilities, and to encourage a sustaining interest in advanced education and research (Annexure 22.2.10).</p> <p>The BoS members approved the structure and curriculum of Minors and Honors scheme. However, BoS (Electrical) strongly proposed to run the Minors and Honors certification scheme from the next revision of the curriculum. In the existing regular degree programme the student has to earn 176 credits to get their degree. An addition of 15 credits to get Minor/Honor certification will put an extra burden on students. Hence, BoS (Electrical) proposed to reduce the number of credits of current UG programme before implementing the minor and honor scheme.</p>	<p><u>Resolution No. AC/XXII/22.2.10</u></p> <p>Approved. However the department can decide launching the program based on the expertise available in the department & demand from the students.</p>
<p>Item 22.2.11: Approval to new Open Elective courses and curriculum for UG Programme</p> <p>Three courses as open electives, Industrial Automation and Control, Power Plant Engineering and Electric Vehicle are proposed for all students. It is also suggested that Renewable Energy Technology from the existing open electives shall be offered to the students of all the branches except Electrical branch (Annexure 22.2.11).</p>	<p><u>Resolution No. AC/XXII/22.2.11</u></p> <p>Approved.</p>
<p>Item 22.2.12: Approval to new Open Elective courses and curriculum for PG Programme</p> <p>The BoS has proposed to add one elective course Energy and Environmental Policies for PG students (Annexure 22.2.12).</p>	<p><u>Resolution No. AC/XXII/22.2.12</u></p> <p>Approved.</p>
<p>Proposals from Electronics & Telecommunication Engineering Department</p> <p>Item 22.2.13: Approval to Minors in Embedded</p>	<p><u>Resolution No. AC/XXII/22.2.13</u></p> <p>Approved. However curriculum may be revised to increase the</p>

<p>Applications</p> <p>Department is proposing Minors in 'Embedded Applications' for other department students. The eligibility and total credits to be offered are abiding to the institutional rules and guidelines (Annexure 22.2.13).</p>	<p>value of the program so as to attract the students.</p>
<p>Item 22.2.14: Approval to Honors in Artificial Intelligence</p> <p>Department proposes Honors in Artificial Intelligence for the undergraduate students of the department. The scheme provides specialization in Artificial Intelligence. The proposal is put before Academic Council for approval (Annexure 22.2.14).</p>	<p><u>Resolution No. AC/XXII/22.2.14</u></p> <p>Approved. However the department can decide launching the program based on the expertise available in the department & demand from the students.</p>
<p>Item 22.2.15: Approval to Inclusion of two courses in Open Electives</p> <p>It is necessary to promote the multidisciplinary approach for engineering. Hence department has decided to offer additional courses for all the students. Introduction to Internet of Things (ET3038) and MATLAB Programming (ET3039) are proposed to be included in the open elective category. The course Introduction to Internet of Things (ET3038) is proposed for the odd semester for students of all the branches. MATLAB Programming (ET3039) is proposed for the even semester for students of all the branches (Annexure 22.2.15).</p>	<p><u>Resolution No. AC/XXII/22.2.15</u></p> <p>Approved.</p>
<p>Proposals from Information Technology Department</p> <p>Item 22.2.16: Approval to course structure and curriculum of Minors in Information Technology</p> <p>A Minors in Information Technology is proposed for the students other than CSE and IT. A student can work in interdisciplinary areas for their projects and look forward to solve problems in their field with the aid of IT (Annexure 22.2.16).</p>	<p><u>Resolution No. AC/XXII/22.2.16</u></p> <p>Approved. However curriculum may be revised to increase the value of the program so as to attract the students.</p>
<p>Item 22.2.17: Approval to course structure and curriculum of Honors in Artificial Intelligence and Machine Learning</p> <p>Several Industries and Institutes are applying Artificial Intelligence & Machine Learning based solutions in the diverse fields. In order to develop expertise in this emerging domain Department of Information Technology is proposing Honors in Artificial Intelligence &</p>	<p><u>Resolution No. AC/XXII/22.2.17</u></p> <p>Approved. However the department can decide launching the program based on the expertise available in the department & demand from the</p>

<p>Machine Learning for the students of Information Technology (Annexure 22.2.17).</p>	<p>students.</p>
<p>Item 22.2.18: Approval for open elective Fundamentals of Artificial Intelligence for UG students Considering the applications of Artificial Intelligence in diversified fields, department is proposing Fundamentals of Artificial Intelligence as an Open Elective for all the UG students (Annexure 22.2.18).</p>	<p><u>Resolution No. AC/XXII/22.2.18</u> Approved.</p>
<p>Item 22.2.19: Approval for change in prerequisite courses for open electives Open electives offered by the department, Machine learning and Big Data Analytics, are having prerequisites. The prerequisite courses of open elective course Machine learning were Data structures and Discrete mathematical structures. BoS deliberated at prerequisites & it is decided that there is no need of prerequisite for the open elective course Machine learning. Removing of prerequisite will make the elective available for students of other branches too. Similarly the prerequisite courses of open elective course Big Data Analytics was ADBMS and Data Mining. As per the suggestions of BoS Database Management Systems is decided to be a prerequisite for Big Data Analytics (Annexure 22.2.19).</p>	<p><u>Resolution No. AC/XXII/22.2.19</u> The proposal of open elective course Machine learning is approved. However the proposal of Big Data Analytics is not approved as an open elective. The curriculum may be revised so as to remove the pre requisites, else, the course may be offered as professional elective.</p>
<p>Item 22.2.20: Approval for Minor change in the syllabus of IT4057: Image Processing Curriculum of the course Image Processing is modified within 20% of permissible limits and replaced with same course code in structure with no requirement of any equivalence. Modified syllabus of this course is put before the council for approval (Annexure 22.2.20).</p>	<p><u>Resolution No. AC/XXII/22.2.20</u> Approved.</p>
<p>Proposals from Mechanical Engineering Department Item 22.2.21: Approval to structure and curriculum of Minors in Manufacturing Engineering Mechanical Engineering Department is proposing Minors in Manufacturing Engineering. The course is designed to improve the knowledge base of students about conventional and latest manufacturing methods and their applications. The course aims at providing basic information about Manufacturing Technology, its engineering applications to students and there by improve their employability. (Annexure 22.2.21).</p>	<p><u>Resolution No. AC/XXII/22.2.21</u> Approved. However curriculum may be revised to increase the value of the program so as to attract the students.</p>
<p>Item 22.2.22: Approval of structure and curriculum</p>	<p><u>Resolution No. AC/XXII/22.2.22</u></p>


<p>of Honors in Production Engineering</p> <p>The Honors in Production Engineering course is of 15 credits. The course aims at providing recent advances in production engineering to UG students and thereby improves their knowledge, skill and employability. This course is designed to create interest in students to undertake higher study or join research organization in future. (Annexure 22.2.22).</p>	<p>Approved. However the department can decide launching the program based on the expertise available in the department & demand from the students.</p>
<p>Item 22.2.23: Approval to revision of the Open Elective course Entrepreneurship Development Programme</p> <p>The ownership of the course Entrepreneurship Development Programme is changed from Electrical Department to Mechanical Engineering Department. The BoS thoroughly revised & replaced the course with the same name but changed course code to ME2023 (Annexure 22.2.23).</p>	<p><u>Resolution No. AC/XXII/22.2.23</u></p> <p>Approved</p>
<p>Proposals from MCA Department</p> <p>Item 22.2.24: Approval to Two years Structure of MCA</p> <p>As per the directives of AICTE and Government of Maharashtra, The MCA program will be of two years duration from academic year 2020-21. There was a lengthy discussion on this point in the BoS meeting. Members shown concern about decision of Government to reduce the duration of MCA. Moreover there is no model curriculum or guidelines provided by AICTE or Government for curriculum. The Rules & Regulations for Two years MCA course shall be placed in the next academic council. However the structure was finalized & put before the council for approval (Annexure 22.2.24).</p>	<p><u>Resolution No. AC/XXII/22.2.24</u></p> <p>Provisionally approved in absence of guidelines from AICTE/Government. Need to be placed again after modifications if any, as per the guidelines to be issued.</p>
<p>Item 22.2.25: Approval to the syllabus of FYMCA for Two years duration MCA starting from 2020-21</p> <p>The syllabus of FYMCA for Two years duration MCA starting from 2020-21 is put before the council for approval (Annexure 22.2.25).</p>	<p><u>Resolution No. AC/XXII/22.2.25</u></p> <p>Provisionally approved in absence of guidelines from AICTE/Government. Need to be placed again after modifications if any, as per the guidelines to be issued.</p>
<p>Item 22.2.26: Approval to the equivalence of previous curriculum with new Two Years MCA curriculum</p> <p>The equivalence for courses of old curriculum is identified for teaching purpose. The table of equivalence</p>	<p><u>Resolution No. AC/XXII/22.2.26</u></p> <p>Provisionally approved in absence of guidelines from</p>


as approved in BoS is put before the council.	AICTE/Government. Need to be placed again after modifications if any, as per the guidelines to be issued.
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Following suggestions were given by the Hon. Members:

Mr. Mukund Kulkarni suggested that offering Minors & Honors is a good practice for increasing the employability of the students. He suggested that Minors in Project Management can be thought of. Mr. Mukund Kulkarni agreed to facilitate a meeting with various industries for value addition to Minor/ Honors programs. Dean (Industry-Institute Interaction), Dr. R.M.Damgir shall interact with Mr. Mukund Kulkarni to coordinate the meeting and all BoS Chairperson shall interact with industries to explore the possibility of fine tuning the curriculum of Minors/Honors incorporating the suggestions of academic council members.

The meeting ended with vote of thanks by Dr. A. A. Bhole, Dean (Academics).


Dr. A. A. Bhole
Member Secretary
Academic Council
Government College of Engineering
Aurangabad


Dr. P. B. Murnal
Chairman
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