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Government College of Engineering, Jalgaon
शासकीय अभियांत्रिकी महाविद्यालय, जळगांव

An Autonomous Institute of Government of Maharashtra ▪ महाराष्ट्र सरकारची स्वायत्त संस्था
NAAC Accredited with grade B++ (2024-2029) ▪ नॅक द्वारा नामांकन ब++ (२०२४-२०२९)
NH53, Jalgaon, Maharashtra, PIN 425 002 INDIA ▪ राष्ट्रीय महामार्ग ५३, जळगांव, महाराष्ट्र, पिन ४२५ ००२ भारत
+91-257-2281522 ▪ principal.gcoejalgaon@dtemaharashtra.gov.in, principal@gcoej.ac.in
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GCoEJ/IQAC_10/MoM/ 4068   Date: 17 DEC 2024

Minutes of Meeting | 10th Meeting of IQAC committee members

Friday, 6th December 2024 | 1.30 PM to 6:00 PM | Venue: Conference Hall

Attendees: Following members were present

Sr. No.	Required composition	Name and Designation of the member.
1	Chairperson: Head of the Institution	Dr. Suhas Sudhakarrao Gajre Principal
2	Teachers to represent all levels (Assistant and Associate Professors) (three to eight)	1. Dr. Mrs. Vidya Rohidas Saraf 2. Mr. Tukaram Kashinath Gawali 3. Dr. Samadhan C. Kulkarni 4. Mr. Arun Madhavrao Dongardive 5. Mr. Shirish Govind Adam Instru. Associate Dean (Quality Assurance)
3	The senior administrative officer (Office Superintendent/Manager)	Dr. S. P. Mohani, Dean Academic and member BoG.
4	One/ two nominees from the Local Society/Trust, Students, and Alumni	Shri. S. O. Dahad (Local Society) Dr. Parag A. Narkhede (Alumni) Ms. Naratawadekar Rajnandini A. (GS SRC)
5	One nominee from Industry	Shri. Deepak Chaudhary, Spectrum Jalgaon.
6	Invitee members Heads and Deans, Criteria coordinators	Dr. Gajanan Malwatkar (HoD Instru) Dr. Ramesh B. Kamble (Dean SA) Dr. Vyankatesh P. Dhote (HoD Electrical) Mr. S. D. Ahirrao (HoD Applied Science) Mr. Deepak S. Sali (FY Coordinator) Dr. Mahesh S. Patil (Alumni in charge) Mrs. K. R. Sarode (HoD Computer) Mr. Mahesh S. Sadawarte (Dean IIL, TPO)
7	One of the senior teachers as the Coordinator of the IQAC	Dr. Prashant Jaichand Gaidhane, Dean (Quality Assurance)

Leave of absence: Mr. S. M. Wani, Mrs. D. P. Yavalkar, Dr. M.K. Sonpimple

Pg. 01/07

Principal
Govt. College of Engineering
Jalgaon

Meeting agenda: As per Agenda notes for the 10th Meeting of IQAC No. CoEJ/IQAC_10/Agenda Notes /07 Date: 5.12.2024

The meeting started with the permission of the Chairperson IQAC and Principal Dr. Suhas S. Gajre. At the start of the meeting, the Hon. Principal welcomed all the members of the IQAC committee, Heads and Deans, and other invitee members. A brief introduction about IQAC was presented by Dr. Prashant Jaichand Gaidhane, Dean (Quality Assurance).

The meeting started with the permission of the chair Principal Dr. Suhas S. Gajre and the following points were discussed/resolved in the meeting.

Item Details

Item No. 1: **To note the new composition of IQAC for the current academic year 2024 – 25 and welcome new members.**

1.1 The IQAC for the current academic year 2024 – 25 was constituted vide office order No GCOEJ/IQAC/2024/2621 dated 01/08/2024 and revised vide office order No GCOEJ/IQAC/2024/06 dated 29/11/2024 due to transfer of Shri D. M. Gaikwad, Assistant Professor – Electronics.

1.2 Copies of both office orders were presented and noted by all the members of IQAC.

Item No. 2: **To read and confirm the minutes of the previous meeting of IQAC held in the meeting hall of the institute on Friday, August 30; 2024.**

2.1 The ninth meeting of IQAC was held on Friday, August 30; 2024 at 11.00 am. The meeting minutes were circulated among all members via letter No GCOEJ/IQAC/2024/13 dated 30/08/2024 with a request to give suggestions/modifications (if any) and for confirmation. No suggestions/modifications received from any of the members till 06/12/2024.

2.2 The same was read and confirmed without any changes.

Item No. 3: **To note and approve the action taken by the institute on the agenda points discussed and resolved in the earlier meetings of IQAC.**

3.1 The ninth meeting of IQAC was held on Friday, August 30; 2024 at 11.00 am. Dr. P. J. Gaidhane, Dean (Quality Assurance) briefed about the action taken by the institute on the agenda points discussed and resolved in the ninth meeting of IQAC. The following points of ATR are discussed.

Action taken report noted and the IQAC committee was satisfied with the actions initiated and taken at the Institute level with the following suggestions-
1. Students need to be involved in the campus cleaning at least in the hostels. Awards for cleanliness can be started.
2. Surprise visits are to be planned for healthy competition of cleanliness.

02/07

2

Item No. 4: **To note the evaluation report of the second cycle of NAAC and conclusions drawn by the institute based on its analysis.**

4.1 The NAAC peer team visited this institute for its accreditation (second cycle) on the 13th and 14th of September 2024, It declared the final result on the 21st of September 2024. Shri. S. O. Dahad presented the evaluation report of the second cycle of NAAC.

4.2 It was appreciated that the institute was awarded a B++ grade by NAAC with an overall CGPA of 2.85. The CGPA for quantitative metrics is 2.88 and that for qualitative metrics is 2.8.

4.3 A detailed metric-wise analysis and discussion were carried out by all the members and a few suggestions were given for further improvement by strengthening the weak areas.

4.4 Shri. Deepak Chaudhary suggested the installation of a lift for disabled students. He also emphasizes fulfilling faculty positions, and involvement in industry-institute interaction, and suggests investing in startup incubation centers.

4.5 It is resolved to send a communication to the State Government regarding faculty position and Infrastructure in the view of comments by NAAC peer team and external IQAC members.

Item No. 5: **To note, discuss, and suggest suitable action for the suggestions given by the peer team of NAAC visited this institute for accreditation of the second cycle.** *(Agenda point to be presented by Associate Dean – Quality Assurance Shri S. G. Adam)*

5.1 Shri. S. G. Adam presented the peer team report on institutional accreditation of the Government College of Engineering, Jalgaon (C-8946). The report includes criteria-wise observations, the institute's strengths and weaknesses, and five suggestions for further improvement.

5.2 All the members of IQAC noted and discussed the point-wise report and suggested a timeline-based action plan for compliance of the report.

5.3 To fulfill the recommendation of the 'Implement Outcome Based Education' remark, Shri. S. G. Adam suggested the mandatory NPTEL online course 'Outcome-based pedagogic principles for effective teaching' by Prof. Shyamal Kumar Das Mandal from IIT Kharagpur to all visiting faculty. Dr. Parag Narkhede proposed to make it mandatory for all the faculty. It is resolved to reimburse the registration/examination fees for the NPTEL exam and local conveyance to appear for the examination subject to PASS the NPTEL course with certificate type completed / Elite / Elite+Silver / Elite+Gold

Item No. 6: **To discuss the IQAC annual report including quality assurance measures adopted by the institute and suggestions for improvement.**

6.1 Shri. S. G. Adam presented the IQAC annual report 2023-24 and told how IQAC had initiated various policies/programs/activities for quality assurance in academic and non-academic areas of the institute for the holistic development of all stakeholders. He reported that the institute had organized various events/programs/activities during the academic year 2023-24.

6.2 All the members of IQAC read and discussed the IQAC annual report 2023-24.

03/07

Principal
Govt. College of Engineering
Jalgaon

6.3 Shri S. G. Adam proposed to buy IonCuDOS OBE software for structured data entry. Dr. Narkhede suggested developing institutes' software for data collection. Shri. Deepak Chaudhary suggested exploring the method of scanning for automating the CO-based mark entry in the software/excel.

Item No. 7: **To discuss the AEC report and suggestions for the improvement in its curriculum, teaching-learning process, structures & methodologies of operations, and learning outcomes.** *(Agenda point to be presented by Dean Academics–Dr S. P. Mohani)*

7.1 AEC had initiated various policies/reforms/activities for quality assurance in the academic and evaluation process of the institute.

7.2 The annual report of AEC initiated policies/reforms/activities for quality assurance in the academic and evaluation process of the institute during the academic year 2023-24 noted by IQAC

7.3 Shri. Deepak Chaudhary suggested to include courses on startup ecosystem, Health awareness at each stage of life. Balance sheet related content to be added in the courses offered by Science and Humanities.

Item No. 8: **To discuss the institutional preparedness for NEP and give suggestions for its effective implementation.**

8.1 Dr. S. P. Mohani, Dean of academics, has presented the report of AEC on preparedness for NEP and its implementation (Annexure VIII Page no 60-81). It is informed that NEP 2020 was implemented in the institute from AY 2023-24 and current II year B. Tech. curriculum is revised as per NEP. All members discussed and noted the NEP structure.

8.2 Sri. Sanjay Birla suggested community engagement in projects and mini projects. Dean R&D will be assigned to work on the implementation of this.

Item No.9: **To note, discuss and suggest modifications for improvement in the existing teaching-learning process including catering to student diversity, student-centric methods, students, performance and learning outcomes, and student satisfaction survey.**

9.1 Shri S. G. Adam, Associate Dean Quality Assurance, presented the methods of periodic reviews of institutes' teaching-learning process including catering to student diversity, student-centric methods, students' performance and learning outcomes, etc.

9.2 He also presented the compiled report of the suggestions received with referred parameters from various stakeholders. The compiled information is enclosed in the book of enclosure as Annexure IX (Page no 84-93). All members discussed and noted the same.

9.3 Dr. Parag Narkhede suggested referring to ISO 9000 documents for the preparation of various formats. He also insisted on hiring a consultant for the same.

Item No.10: **To discuss the Industry Institute Interaction Cell and Institute Innovation Council reports and suggest improvement in its referred activities, functional MoUs, etc.**

04/07

Principal
Govt. College of Engineering
Jalgaon

10.1 Shri M. S. Sadawarte, Dean IIL, presented the T&P report, IPR, start-ups, functional MoUs, LoU with CSRBOX Foundation, etc. (annexure X Page 94-106). All members discussed and noted the same. IQAC suggested including off campus placement data also in the T & P report.

10.2 Principal Dr. S. S. Gajre sir presented a draft of the IPR & Startup policy document (annexure X Page no 107-128). Shri. Deepak Chaudhary suggested providing funds to startups to encourage students.

10.3 Sri. S. G. Adam proposed mandatory registration and completion of the NPTEL course by third year students- 'Complete guide for campus interviews: Step by step preparation for Internships and Full-time jobs' by Prof. Vinod Aravindakshan and Prof. Vibin Aravindakshan from IIT Pallakad. It is resolved to make the course compulsory for TY and LY students for AY 2024-25 and TY students later. Notice for enrollment by students will be issued by T&P and further tracking will be done. It is resolved to reimburse the registration/examination fees for the above course by the institute after successful completion of the course.

Item No.11: **To discuss the Institute's research, development, and community project report (on Research and Innovations) and suggest improvement in its research & development activities, start-ups/incubation center activities, etc.**

11.1 Principal Sir presented the Research and Development, Innovation, Advancement, Networking, Collaboration and Excellence (RADIANCE) policy (annexure XI, Page no: 129-138). All members discussed and noted the same.

11.2 Shri. Birla sir suggested assigning individual tasks to each faculty member to improve R&D activities.

Item No.12: **To discuss the gymkhana report including extension activities carried out by gymkhana and various departments and suggest improvement in its activities.**

12.1 Dr. R. B. Kamble submitted the report including the extension activities carried out by Gymkhana, NSS and various departments and suggestions received with above-referred parameters from various stakeholders. All the members of IQAC discussed and noted the same.

12.2 IQAC members suggested that NSS and collaborative activities should be increased. All activities and programs should be reported to IQAC for NAAC documentation.

12.3 Principal Dr. S. S. Gajre reported that 1 student is shortlisted for Guruji Foundation scholarships. All members congratulate him.

Item No.13: **To note and discuss the deployment of the perspective plan 2018-19 to 2022-23 and approve the modified perspective plan of the institute for the period of 2024-25 to 2028-29 and forward the same to BoG for final approval.**

13.1 Shri. A. M. Dongardive presented the Deployment of the perspective plan 2018-19 to 2022-23 (as enclosed in the book of enclosure as annexure XIII (a) (Page no 139-145). All members discussed and noted the same.

13.2 A committee is appointed to prepare the draft of the Institutional Development Plan (IDP)/ Strategic Plan for 2024-25 to 2028-29 under the chairmanship of Dr. G. M.

05/07

Principal
Govt. College of Engineering
Jalgaon

Malwatkar. A committee will prepare the draft considering the 10 evaluation parameters of the new format presented by NAAC and forward it to BoG for final approval. (XIII (b) (Page no 147-160)).

Item No.14: To discuss the activities and contribution of alumni/alumni association and give suggestions for further improvements.

14.1 Dr. M. S. Patil presented the report of the alumni association (annexure XIV, Pages no 162-162b), and all members discussed and noted the same. Members suggested to conduct the drive to increase the members of the alumni association,

14.2 It is informed that the silver jubilee function will be arranged from 3 to 5 January 2025 as the 'Industry Alumni Meet 2025'.

14.3 Dr. Narkhede suggested contacting all alumni to initiate fundraising for the institute.

Item No.15: To note, discuss, and suggest modifications for improvement in the Infrastructure and Learning Resources available at the institute.

15.1 Dr. V. R. Saraf presented the report on Infrastructure and Learning Resources available at the institute and said that the built-up area available in the institute is just enough to fulfill the AICTE norms. Additional areas for expansion are not available.

15.2 IQAC noted that the institute scored only 2.88 CGPA on a scale of 4 in qualitative metrics [for criteria IV infrastructure] against a 3.57 CGPA on a scale of 4 in quantitative metrics in the second cycle evaluation by NAAC. It implies that the quality/ambiance of available infrastructure needs to be improved.

15.3 All the members of IQAC emphasize on development of infrastructure and learning resources. Shri. Sanjay Birla suggested to prepare a new proposal and send it to higher authorities for required developments. Regular feedback is also required.

Item No.16

To note, discuss and suggest modifications for improvement in the institutional practices in respect of "Institutional Values and Best Practices". *(Agenda point to be presented by IQAC member – Smt. D. P. Yawalkar)*

16.1 Dr. Vyankatesh Dhote details "Institutional Values and Best Practices" adopted by the Institute. It is observed that the peer team of NAAC has changed the Institute's best practices and distinctiveness at the time of its visit and suggested that the extraordinary infrastructural facilities or excellent work/practice for the benefit of society can be identified as best practices.

16.2 The concerned criteria coordinator and IQAC member proposed some practices and submitted the report as annexure XVI (Page no 164). All the members of IQAC noted and discussed the same. It is resolved to adopt and follow more than two best practices.

16.3 Shri Sanjay Birla sir suggested adopting academic institute-level best practices which will improve students' performance. He also recommended conducting technical awareness camps in villages as best practice.

16.4 Shree Deepak Chaudhary advised a structured way to find slow learners, using psychometric tests, for language and English communication in the first year itself. He proposed a communication skill development course that can be a best practice.

06/07

Principal
Govt. College of Engineering
Jalgaon

Item No.17: **To discuss and approve the draft AQAR of the academic year 2023-24.**

17.1 Dr. P. J. Gaidhane presented the draft of the AQAR for the academic year 2023-24. It is informed that the criterion-wise work distribution has been done, vide office order GCOEJ/IQAC/2024/03 dated 14/11/2024, and AQAR will be filled.

17.2 The members discuss the details, and the draft is approved. The principal is authorized to approve the final AQAR.

Item No.18: **Any other point by the permission of the chair and concluding address by IQAC chairperson Hon. Dr. Suhas S. Gajre.**

18.1 Principal Dr. S. S. Gajre informed about the National Apprenticeship Training Scheme (NATS) instituted by the Board of Apprenticeship and Training / Practical Training (BOAT). He presented the GR related to NATS for its implementation at the institute.

18.2 IQAC suggested that BoS shall adopt and implement apprenticeship as per NATS in academic structure. It is suggested to give equivalence for option-II students of the old 2018-19 scheme and NEP scheme after approval from the Academic Council.

With the chair's permission, Dr. P. J. Gaidhane, DEAN IQAC, and the member secretary presented a vote of thanks to conclude the meeting.

Dr. Suhas Sudhakkarrao Gajre
Chairman, IQAC,
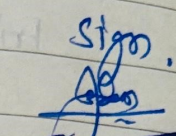Principal,
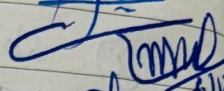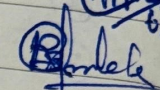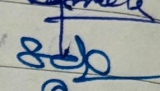Government College of Engineering, Jalgaon
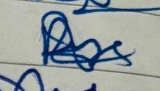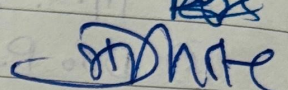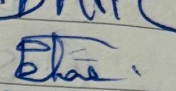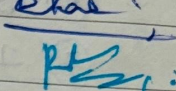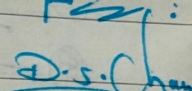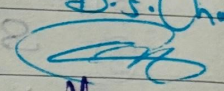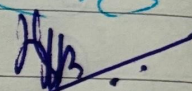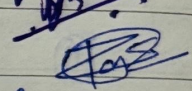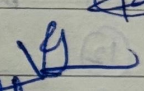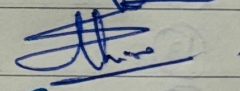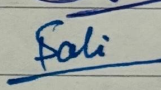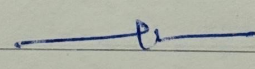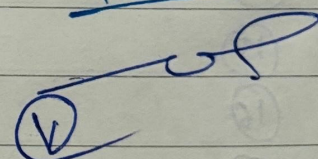
Copy To: 1. All honorable members of IQAC, GCoE, Jalgaon
2. All honorable Deans, HoDs, I year coordinator, CoE and rector, GCoE, Jalgaon – Invitee members
3. Hon. Chairman, BoG, GCoE, Jalgaon – For information.

07/07

Sr.No.	Name and Designation	Sign.
1	Shirish Adam Associate Dean (IQAc)	
2	Gajanan Malwatkar, Head (Instru.)	
3	Ramesh B. Kamble (App Sci. Physics)	
4	Dr. Samadhan C. Kulkarni (E &Tc)	
5	Arun Madhavrao Dongardive	
6	Dr. Vyanktesh. P. Dhote	
7	Dr. Shripad P. Mohani - HoD - E&Tc	
8	Dr Parag Arun Nandede ← Dean-Academics	
9	Deepak Suresh Chaudh.	
10	Sanjay Bhau,	
11	Dr. Suhas S. Gajre, Principal.	
12	Naratawadekar Rajnandini A. (student)	
13	Dr V. R. Sarat	
14	Prof. S. O. Ahirrao Invitee Member	
15.	D. S. Sali Invitee Member	
16.	Dr. M. S. Patil.	
17.	K. R. Sande f HoD comp..	

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10th Meeting of IQAC – Agenda Notes and Book of Enclosure

Table of Content

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GCoEJ/IQAC_10/Agenda Notes/ | Date: 5.12.2024

Agenda Notes for 10th Meeting of IQAC scheduled on Friday, December 6, 2024

Item Details

Item No. 1

To note the new composition of IQAC for the current academic year 2024 – 25 and welcome new members. *(Agenda point to be presented by Member Secretary of IQAC – Dr. P. J. Gaidhane)*

1.1 The IQAC for the current academic year 2024 – 25 was constituted vide office order No GCOEJ/IQAC/2024/2621 dated 01/08/2024 and revised vide office order No GCOEJ/IQAC/2024/06 dated 29/11/2024 due to transfer of Shri D. M. Gaikwad, Assistant Professor – Electronics.

1.2 Copies of both the office orders are enclosed for ready reference in the book of enclosure as **annexure I (Page no 07-08).**

1.3 All the members are requested to note the new composition of IQAC for the current academic year 2024 – 25.

Item No. 2

To read and confirm the minutes of the previous meeting of IQAC held in the meeting hall of the institute on Friday, August 30; 2024. *(Agenda point to be presented by Member Secretary of IQAC – Dr. P. J. Gaidhane*

2.1 The ninth meeting of IQAC was held on Friday, August 30; 2024 at 11.00 am. The minutes of the meeting were circulated among all honourable members vide letter No GCOEJ/IQAC/2024/13 dated 30/08/2024 with request to give suggestion/ modification (if any) and for confirmation. Its copy is enclosed for ready reference in the book of enclosure as **annexure II (Page no 09-12).**

2.2 All the members of IQAC are requested to read and confirm the same.

Item No. 3

To note and approve the action taken by the institute on the agenda points discussed and resolved in the earlier meetings of IQAC. *(Agenda point to be presented by Member Secretary of IQAC – Dr. P. J. Gaidhane)*

1/165

3.1 The ninth meeting of IQAC was held on Friday, August 30; 2024 at 11.00 am. Institute has taken appropriate actions on most of the decisions taken by IQAC in ninth and its earlier meetings. Its copy is enclosed in a book of enclosure as **annexure III (Page no 13-17)**.

3.2 All the members of IQAC are requested to note and approve the same.

Item No. 4

To note the evaluation report of the second cycle of NAAC and conclusions drawn by the institute on the basis of its analysis. *(Agenda point to be presented by IQAC member Shri S. O. Dahad)*

4.1 The peer team of NAAC visited this institute for its accreditation (second cycle) on 13th and 14th September, 2024 and the final result was declared by NAAC on 21st September 2024.

4.2 This institute is awarded as B++ grade by NAAC with overall CGPA 2.85. The CGPA for quantitative metrics is 2.88 and that for qualitative metrics is 2.8.

4.3 The detailed metric wise analysis is carried out and its copy is enclosed in a book of enclosure as **annexure IV (Page no 18-24)**.

4.4 All the members of IQAC are requested to note the same and suggest appropriate actions for further improvement by strengthening the weak areas.

Item No. 5

To note, discuss and suggest the suitable action for the suggestions given by the peer team of NAAC visited this institute for accreditation of second cycle. *(Agenda point to be presented by Associate Dean – Quality Assurance Shri S. G. Adam)*

5.1 As stated in an earlier point, the peer team of NAAC visited this institute for its accreditation (second cycle) and submitted their report. The copy of the report is enclosed in a book of enclosure as **annexure V (Page no 25-35)**.

5.2 The report includes the criteria wise observation, strengths & weaknesses of the institute and five suggestions for the further improvement.

5.3 All the members of IQAC are requested to note the same and suggest point wise appropriate actions for further improvement.

Item No. 6

To discuss the IQAC annual report including quality assurance measures adopted by the institute and suggest for the improvement. *(Agenda point to be presented by Associate Dean Quality Assurance – Shri S. G. Adam)*

6.1 IQAC had initiated various policies/programs/activities for quality assurance in academic and non-academic areas of the institute for holistic development of all stakeholders and accordingly this institute had organised various events/programs/activities during the academic year 2023-24.

6.2 The annual report of IQAC initiated policies/programs/activities for quality assurance in academic and non-academic areas of the institute for holistic development of all

stakeholders during the academic year 2023-24 is enclosed in the book of enclosure as **annexure VI (Page no 37-57)**.

6.3 All the members of IQAC are requested to note the same and suggest point wise appropriate actions for further improvement.

Item No. 7

To discuss the AEC report and suggestions for the improvement in its curriculum, teaching learning process, structures & methodologies of operations and learning outcomes. *(Agenda point to be presented by Dean Academics–Dr S. P. Mohani)*

7.1 AEC had initiated various policies/reforms/activities for quality assurance in the academic and evaluation process of the institute.

7.2 The annual report of AEC initiated policies/reforms/activities for quality assurance in academic and evaluation process of the institute during the academic year 2023-24 and new suggestions are enclosed in the book of enclosure as **annexure VII (Page no 58-59 and 82-83)**.

7.3 All the members of IQAC are requested to note the same and suggest point wise appropriate actions for further improvement.

Item No. 8

To discuss the institutional preparedness for NEP and give suggestions for its effective implementation. *(Agenda point to be presented by Dean Academics – Dr S. P. Mohani)*

8.1 Institute has started cumulative revision of its curriculum as per NEP 2020 from the academic year 2023-24.

8.2 During the current academic year curriculum of II year B. Tech. Is revised as per the AICTE guidelines and NEP 2020.

8.3 Dean academics of this institute has submitted the report of AEC on preparedness for NEP and its implementation. It is enclosed in the book of enclosure as **annexure VIII (Page no 60-81)**.

8.4 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.9

To note, discuss and suggest modifications for improvement in existing teaching- learning process including catering to student diversity, student centric methods, students, performance and learning outcomes and student satisfaction survey. *(Agenda point to be presented by Associate Dean Quality Assurance – Shri S. G. Adam)*

9.1 Institute periodically reviews its teaching- learning process including catering to student diversity, student centric methods, students' performance and learning outcomes etc.

9.2 Associate Dean Quality Assurance compiled the suggestions received wrt referred parameters from various stakeholders. The compiled information is enclosed in the book of enclosure as **annexure IX (Page no 84-93)**.

3/16 5

9.3 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.10

To discuss the Industry Institute Interaction Cell and Institute Innovation Council reports and suggest for the improvement in its referred activities, functional MoUs, etc. *(Agenda point to be presented by Dean IIL – Shri M. S. Sadawarte)*

10.1 Dean IIL had submitted the report including the training and placement data, IPR and start ups, functional MoUs etc and suggestions received wrt above referred parameters from various stakeholders. The compiled information is enclosed in the book of enclosure as **annexure X (Page no 94-128)**.

10.2 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.11

To discuss the Institute's research, development and community project report (on Research and Innovations) and suggest the improvement in its research & development activities, start ups/incubation centre activities etc. *(Agenda point to be presented by Dean R & D – Dr M. K. Sonpimpale)*

11.1 Dean R and D had submitted the Research and Development, Innovation, Advancement, Networking, Collaboration and Excellence (RADIANCE) policy report which is enclosed in the book of enclosure as **annexure XI (Page no: 129-138)**.

11.2 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.12

To discuss the gymkhana report including extension activities carried out by gymkhana and various departments and suggest for the improvement in its activities. *(Agenda point to be presented by Dean Students' Activities – Dr R. B. Kambale)*

12.1 Dean Students' Activities had submitted the report including the extension activities carried out by gymkhana, NSS and various departments and suggestions received wrt above referred parameters from various stakeholders. The compiled information is enclosed in the book of enclosure as **annexure XII (Page no 166) onwards.**

12.2 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.13

To note and discuss the deployment of perspective plan 2018-19 to 2022-23 and approve the modified perspective plan of the institute for the period of 2024-25 to 2028-29 and forward

4/165

the same to BoG for final approval. (**Agenda point to be presented by IQACmember –** **Shri A. M. Dongardive**)

13.1 Deployment of the perspective plan 2018-19 to 2022-23 is enclosed in the book of enclosure as **annexure XIII (a) (Page no 139-145)**.

13.2 The process of preparing perspective plan of the institute for the period of 2024-25 to 2028-29 is in process. NAAC has changed its evaluation format from 7 point evaluation to 10 point evaluation. Therefore, it is decided to prepare an Institutional Development Plan (IDP)/ Strategic plan considering the 10 evaluation parameters of the new format. **XIII (b) (Page no 147-160)**

13.3 A committee is appointed to prepare the draft of the IDP/Strategic plan of the institute for the period of 2024-25 to 2028-29. Its copy is enclosed in the book of enclosure as **annexure XIII (b) (Page no 146).**

Item No.14

To discuss the activities and contribution of alumni/alumni association and give suggestions for further improvements. *(Agenda point to be presented by office bearer of alumni association- Dr M. S. Patil)*

14.1 The faculty coordinator of the alumni association had submitted the report including the drive to increase members of the alumni association, formation of a new executive body of alumni association. The report is enclosed in the book of enclosure as **annexure XIV (Page no 162-162b).**

14.2 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.15

To note, discuss and suggest modifications for improvement in the Infrastructure and Learning Resources available at the institute. *(Agenda point to be presented by IQAC member – Dr. V. R. Saraf)*

15.1 This institute has built up area just to fulfil the AICTE norms. Additional area for expansion is not available.

15.2 This institute could score only 2.88 CGPA on the scale of 4 in qualitative metrics against the 3.49 CGPA on the scale of 4 in quantitative metrics in the second cycle evaluation by NAAC. It implies that the quality/ambiance of available infrastructure needs to be improved.

15.3 The audio visual centre of this institute needs to be improved.

15.4 Concerned criteria coordinator and IQAC member had submitted the report which is enclosed in the book of enclosure as **annexure XV (Page no 163).**

15.5 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.16

To note, discuss and suggest modifications for improvement in the institutional practices in respect of "Institutional Values and Best Practices". *(Agenda point to be presented by IQAC member – Smt. D. P. Yawalkar)*

16.1 Institute regularly conducts various activities to inculcate values, ethics, gender equity, awareness about environment etc and periodically reviews its policies and practices.

16.2 Peer team of NAAC has changed Institute's best practices and distinctiveness at the time of its visit. Peer team suggested that the excellent academic practices are part of the curriculum/teaching learning process/regular academic work and hence cannot be considered as best practices.

16.3 Peer team suggested that the extraordinary infrastructural facilities or excellent work/practice for the benefit of society can be identified as best practices.

16.4 Concerned criteria coordinator and IQAC member had identified some practices and submitted the report. It is enclosed in the book of enclosure as **annexure XVI (Page no 164)**.

16.5 All the members of IQAC are requested to note the same and suggest appropriate policy/actions for its effective implementation and further improvement.

Item No.17
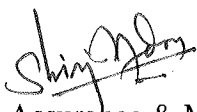
To discuss and approve the draft AQAR of the academic year 2023-24. *(Agenda point to be presented by Member Secretary of IQAC – Dr. P. J. Gaidhane)*

17.1 Data collection for the AQAR of the academic year 2023-24 is in progress and will be completed in the stipulated time frame. Work distribution for the same has been done vide office order GCOEJ/IQAC/2024/03 dated 14/11/2024. It is enclosed in the book of enclosure as **annexure XVII (Page no 165)**.

17.2 Last date to submit AQAR for the academic year 2023-24 is December 31, 2024.

Item No.18

Any other point by the permission of chair and concluding address by IQAC chairperson Hon. Dr. Suhas S. Gajre.

18.1 Member Secretary, IQAC did not receive any other point to be discussed in this meeting till 5.12.2024.

18.2 However, any other point which is not covered earlier can be discussed with the permission of the chair.

Dean – Quality Assurance & Member Secretary, IQAC,
Government College of Engineering, Jalgaon

Copy To: 1. All honorable members of IQAC, GCoE, Jalgaon.
2. All honorable Deans, HoDs, I year coordinator, CoE and rector, GCoE, Jalgaon – Invitee members
3. Hon. Chairman, BoG, GCoE, Jalgaon – For information.

Government College of Engineering, Jalgaon

शासकीय अभियांत्रिकी महाविद्यालय, जळगांव

Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon ■ कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगावशी संलग्न
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+91-257-2281522 ■ principal.gcoejalgaon@dtemaharashtra.gov.in, principal@gcoej.ac.in
Vision: Globally Accepted Engineers with Human Skills ■ DTE Code: 5004 ■ Website: https://www.gcoej.ac.in

No: GCoEJ/IQAC/2024/2624 -1   Date: 1-8-2024

OFFICE ORDER

As per the guidelines by NAAC and UGC, the Internal Quality Assurance Cell (IQAC) Committee for the academic year 2024-25 has been duly constituted at Government College of Engineering, Jalgaon.

The following members have been appointed to the IQAC Committee:

Sr. No.	Required composition	Name and Designation of the member.
1	. Chairperson: Head of the Institution	Dr. Suhas Sudhakarrao Gajre Principal
2	Teachers to represent all levels (Assistant and Associate Professors) (three to eight)	1. Dr. Mrs. Vidya Rohidas Saraf 2. Mr. Tukaram Kashinath Gawali 3. Mrs. Deepa Pralhadrao Yavalkar 4. Mr. Dnyaneshwar Marotrao Gaikwad 5. Mr. Arun Madhavrao Dongardive 6. Mr. Sachinkumar Madhukar Wani 7. Mr. Shirish Govind Adam Instru. Associate Dean (Quality Assurance)
3	One member from the Management	Shri. Sanjay Birla, Shree Kshudha Shanti Seva Sanstha Jalgaon, member BoG.
4	The senior administrative officer (Office Superintendent/Manager)	Dr. S. P. Mohani, Dean Academic and member BoG.
5	One/ two nominee from the Local Society/Trust, Students and Alumni	Shri. S. O. Dahad (Local Society) Dr. Parag A. Narkhede (Alumni) General Secretary SRC. (Student)
6	One / two nominee each from the Employers / Industrialist / stakeholders	Shri. Deepak Chaudhary, Spectrum Jalgaon.
7	One of the senior teachers as the Coordinator of the IQAC	Dr. Prashant Jaichand Gaidhane, Dean (Quality Assurance)

01/08/2024

Dr. Suhas Sudhakarrao Gajre
Principal

Copy to: All faculty members through HoD, by mail.

7/165

Government College of Engineering, Jalgaon
शासकीय अभियांत्रिकी महाविद्यालय, जळगांव
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No: GCoEJ/IQAC/2024/0 6   Date: 2 9/11/2024

OFFICE ORDER

As per the guidelines by NAAC and UGC, the Internal Quality Assurance Cell (IQAC) Committee for the academic year 2024-25 has been revised at Government College of Engineering, Jalgaon.

The following members have been appointed to the IQAC Committee:

Sr. No.	Required composition	Name and Designation of the member.
1	. Chairperson: Head of the Institution	Dr. Suhas Sudhakarrao Gajre Principal
2	Teachers to represent all levels (Assistant and Associate Professors) (three to eight)	1. Dr. Mrs. Vidya Rohidas Saraf 2. Mr. Tukaram Kashinath Gawali 3. Mrs. Deepa Pralhadrao Yavalkar 4. Dr. Samadhan Chandrakantrao Kulkarni 5. Mr. Arun Madhavrao Dongardive 6. Mr. Sachinkumar Madhukar Wani 7. Mr. Shirish Govind Adam Instru. Associate Dean (Quality Assurance)
3	One member from the Management	Shri. Sanjay Birla, Shree Kshudha Shanti Seva Sanstha Jalgaon, member BoG.
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Dr. Suhas Sudhakarrao Gajre
Principal

Copy to: All faculty members through HoD, by mail.

8|165

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No: GCoEJ/IQAC/2024/ 12   Date: 26/08/24

NOTICE

Subject: IQAC Committee Meeting

All members of the Internal Quality Assurance Cell (IQAC), Deans and Heads, NAAC Criteria coordinators are hereby informed that a meeting of the IQAC Committee is scheduled as follows:

Date: Friday, 30th Aug 2024
Time: 4.00 PM
Venue: Conference room, GCOE Jalgaon

Meeting agenda:

1. Welcome Address by the Chairperson.
2. Review and approval of the Previous IQAC committee meetings MoMs.
3. Preparation status of NAAC cycle II visit and review.
4. Discussion on Planning and scheduling of various activities to be conducted by IQAC cell for the upcoming academic year.
5. Any Other Matter with the permission of the Chair.

All members of GCOE Jalgaon, IQAC Committee are requested to be present in the meeting and come prepared with suggestions and inputs relevant to the agenda items.

Dr. Sunny Sudhakarrao Gajre
Principal

Copy to: All GCOE Jalgaon, IQAC Committee members, Criteria coordinators, Deans and Heads through proper channel.

6 9/165
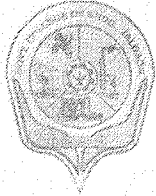
No: GCoEJ/IQAC/2024/ १३

Date: ३० ८/२४

Minutes of Meeting | Meeting of IQAC committee members
Friday, 30th Aug 2024 | 4 PM to 6:10 PM | Venue: Conference Hall

Attendees:

Sr. No.	Required composition	Name and Designation of the member.
1	. Chairperson: Head of the Institution	Dr. Suhas Sudhakarrao Gajre Principal
2	Teachers to represent all levels (Assistant and Associate Professors) (three to eight)	1. Dr. Mrs. Vidya Rohidas Saraf 2. Mr. Tukaram Kashinath Gawali 3. Mrs. Deepa Pralhadrao Yavalkar 4. Mr. Dnyaneshwar Marotrao Gaikwad 5. Mr. Arun Madhavrao Dongardive 6. Mr. Sachinkumar Madhukar Wani 7. Mr. Shirish Govind Adam Instru. Associate Dean (Quality Assurance)
3	The senior administrative officer (Office Superintendent/Manager)	Dr. S. P. Mohani, Dean Academic and member BoG.
4	One/ two nominee from the Local Society/Trust, Students and Alumni	Shri. S. O. Dahad (Local Society) Dr. Parag A. Narkhede (Alumni) General Secretary SRC. (Student)
5	One / two nominee each from the Employers / Industrialist / stakeholders	Shri. Deepak Chaudhary, Spectrum Jalgaon.
6	One of the senior teachers as the Coordinator of the IQAC	Dr. Prashant Jaichand Gaidhane, Dean (Quality Assurance)
7	Invitee members	Heads and Deans, Criteria coordinators

Leave of absence: Shri. Dipak Chaudhary (Industrialist), Shri Sanjay Birla.

10

Meeting agenda:

1. Welcome Address by the Chairperson.
2. Review and approval of the Previous IQAC committee meetings MoMs.
3. Preparation status of NAAC cycle II visit and review.
4. Discussion on Planning and scheduling of various activities to be conducted by IQAC cell for the upcoming academic year.
5. Any Other Matter with the permission of the Chair.

Report:

The meeting started with the permission of the chair Principal Dr. Suhas S. Gajre.

Following points were discussed / resolved in meeting,

Item 1. Welcome Address by the Chairperson.
- Dr. S. S. Gajre, Principal and chairperson of IQAC committee welcomed newly formed IQAC committee members.

Item 2. Review of the Previous IQAC committee Meeting Minutes.
- Previous MoM were discussed and approved.

Item 3. Preparation status of NAAC cycle II visit and review.
- Previous IQAC coordinator Smt. M. R. Bachawad told that the Peer team visit is scheduled on 13 and 14th Sep 2024.
- Review of status of all criteria coordinators were taken and further instructions were given for documentation and verification.
- All heads are informed to prepare their departmental files.
- Pre-visit preparation committees are finalized and work is distributed.

Item 4. Discussion on Planning and scheduling of various activities to be conducted by IQAC cell for the upcoming academic year.
- IQAC committee proposed new strategies for the upcoming academic year 2024-25.
- It is decided to design new online feedback form.
- Further meeting is to be scheduled after NAAC visit for detailed discussion.

Item 6. Any Other Matter with the permission of the Chair.
- Antiaging committee for AY 2024-25 is to be formed and display.
- Additional Anti-raging Display boards are to be placed.
- IQAC cell will conduct presentation for newly admitted FY and DSY students.

Meeting was concluded by vote of thanks by Dr. P. J. Gaidhane Dean (Quality Assurance)

Dr. Suhas Sudhakarrao Gajre
Principal

NMC Review meeting
Friday, 30/28th June

अ.क्र	अधिकारी नाव	पद/विभाग	स्वाक्षरी
1	S. T. Vajje	HoD, Mech	
2	M. R. Bachawad	Electrical	
3	Pro. P. J. Gavichhari	Jm	
4	D. M. Gaikwad	E & TC	
5	Dr. S. C. Kulkarni	E & TC (Asst. Prof)	
6	M. S. Sadavarte	E/C	
7	P. J. Turare	Intru	
8	Mahesh S. Patil	Intu.	
9	D. S. Sali	Sci & Hum.	
10	A. M. Dongarve	Biotru.	
11	Dr. V. R. Sotal	civil	
12	V. T. Pati	Civil	
13	Dr. S. T. Mhase	E & Tc	
14	R. B. Kamble	SH	
15	V. P. Jadhav	Civil	
16	Dr. S. A. Patil	Mech	
17	Dr. M. R. Deshpande	Dean (R & D)	
18	Dr. M. R. Bhosale	E & TC	
19	Dr. S. C. Jadhav	E & Tc	
20	Sr. Shreekant Tare	Mech	
21	S. M. Woni	Mech	
22	Sailesh D. Cheka	Comp	
23	S. O. Ahirrao	Sci. & Humanities	
24	V. V. Deshpande	E & Tc (pop)	
25	M. S. Harne	Mech	
26	D. P. Yavalkar	Elect	
27	Y. N. Mahajan	Mech	
28	R. B. Umbarkar	Mech	

12/

Action taken report on MoMs 9th IQAC Meet

NAAC peer team visit is scheduled on 13th and 14th September 2024

- ➢ Review of status of all criteria coordinators was taken and work allocated for pre-visit and during visit execution. Activities planned and completed smoothly. Copy of the office order attached. Completed

IQAC committee proposed new strategies for the upcoming academic year 2024-25

- ➢ Institute Development Plan (IDP) is under process. Committee for the same has been constituted at the Institute level. Under progress.

It is decided to design a new online feedback form

- ➢ This work has not been initiated yet. Not completed.

Further meeting is to be scheduled after NAAC visit for detailed discussion

- ➢ 10th IQAC meeting is scheduled on 06/12/2024

Anti Ragging committee for AY 2024-25 is to be formed and display

- ➢ Committee formed and a copy of the same is enclosed herewith. Completed

Additional Anti Ragging display boards are to be placed

- ➢ Displayed at various places in the campus. Completed

IQAC cell will conduct presentation for newly admitted FY and DSY students

- ➢ Presentation conducted during Induction program. Completed

-Sd
Member Secretary (IQAC)

13

Shirish Adam <shirish.adam@gcoej.ac.in>

NAAC visit preparation
1 message

IQAC GCoE, Jalgaon <iqac@gcoej.ac.in>   Mon, Aug 26, 2024 at 2:33 PM
To: GCOEJ Faculty <faculty@gcoej.ac.in>
Cc: Suhas Gajre <principal@gcoej.ac.in>

The principal sir observed the following points during the campus visit to prepare for the NAAC visit. All HoDs and concerned faculty/staff members are instructed to fulfill the following requirements before 5th Sep 2024.
PFA

📄 **NAAC visit preparation.pdf**
    415K

14

Following points are observed by Principal Sir during campus visit for NAAC visit preparation. All HoDs and concerned faculty/staff members are instructed to fulfill the following requirements before 5th Sep 2024.

From main gate to building

- Main Gate painting and cleaning.
- Cleaning of roads from main road and main gate.
- Removing unnecessary frames and boards installed by the side of road.
- Install Banner of "WELCOME to NAAC committee" on main gate.
- Install Lights / focus at main gate and repair lights on road.
- Trimming of trees and removing the shrubs.
- Shed to be installed on water cooler kept near reading room.
- Painting of strips on divider.
- Coloring of tree trunks and numbering.

Inside building
- Cover (Plastic sheet / mica sheet) on all electric fitting in corridor.
- Remove unwanted and old stickers / posters / notices/ old decoration items/ names in corridor, lab, and classrooms.
- Cleanliness of toilets.
- Notice boards should be arranged neatly with current notices. Remove old display items.
- संपूर्ण ईमारत साफ करणे व जाळे काढणे.
- पाय—यांखालील कचरा काढणे.
- DUSTBIN ठेवणे.
- Lab cleaning and maintenance.
- Removal of old files
- Display of instructions, list of laboratory equipment, list of practices, timetable, etc. in the lab.
- Name plates and room numbers should be proper.
- Classrooms should be clean and well organized with audiovisual devices.
- All electric fittings, lights and fans should be proper.
- Any other instruction given time to time by Principal sir.

No: GCoEJ/NAAC/2024/ 2845   Date: 31.08.2024

The Peer Team of NAAC will visit to this institute on 13.09.2024 and 14.09.2024. The various committees were already appointed by office order dated 16.08.2024 to complete the pre-visit work and make institute ready for peer team visit. In addition, the committees consisting of following members are appointed for the smooth conduct/coordination of various activities during the peer team visit on the scheduled dates.
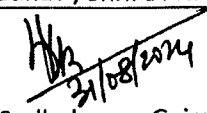
Pre-visit Preparation/Arrangement

SN	Activity	Responsibility
1	To keep departments and central facilities like computer centre, etc. ready for visit (including documents, presentation, proper display of equipment, keeping files ready, etc.)	Concerned HoD and faculty/staff members
2	To keep sports, yoga and cultural activities facilities (Gymkhana) ready for visit	Dr. R. B. Kamble and Gymkhana committee
3	To keep girls', boys' and minority hostel ready for visit	Rector and wardens
4	To keep amenities area (including boys and girls common room etc) ready for visit	Dr. Smt. V. R. Saraf
5	To keep campus (area outside the building) ready for visit, cleanliness and campus beautification	Shri. D. S. Sali, Shri. A. A. Tayade, Shri. R. A. Renuke, and his team
6	To keep office/administrative area ready for visit	Registrar and office staff
7	To keep library/reading hall ready for visit	Dr. Smt. V. R. Saraf, Shri. G. B. Pawar, and library staff
8	To keep IQAC office, T & P cell (including documents and presentation), women cell etc ready for visit	Concerned dean or cell coordinator
9	Technical team to keep meeting room and seminar hall ready for meetings, (computer, printer, LCD projector, UPS, internet etc)	Dr. S. C. Kulkarni, Shri. D. M. Gaikwad, Shri. V. V. Deshpande, Shri. R. L. Wani
10	To maintain uninterrupted electric supply during the visit	Smt D. P. Yawalkar and team
11	Photography and video shooting	Shri. T. K. Gawali, Shri. A. A. Ansari, Shri. S. J. Tawar.
12	To arrange all documents (criteria wise) in one room (if possible meeting hall)	Smt. M. R. Bachawad, Shri. S. O. Dahad, Shri. C. P. Chaudhari

Peer Team Visit Schedule and Responsibility

SN	Activity	Responsibility
1	Local conveyance – arrangement of vehicles for to and fro journey from airport and hotel	Dr. S. A. Patil, Shri. R. B. Umbakar, Shri. S. M. Wani
2	Stay arrangement and Local Hospitality Committee (including tea, breakfast, dinner of guest at hotel on day 0, 1, 2)	Shri. M. S. Sadawarte, Shri. M. S. Patil, Shri. P. J. Turare, Shri. U. T. Patil
3	Food committee (Breakfast, tea/coffee, lunch etc at institute)	Shri. A. M. Dongardive, Smt. V. M. Mahajan, Shri. P. J. Turare, Shri. A. A. Ansari, Shri. Nadim Tadavi

16

Day 0 - 12.09.2024

4	To receive at Aurangabad/Jalgaon airport and arrive at hotel in Jalgaon	Dr. P. J. Gaidhane, Shri. S. G. Adam, Shri. V. P. Jadhav, Shri. Songire P. V.
5	Peer Team Discussion (Pre-visit meeting at the place of stay)	Smt. M. R. Bachawad, Dr. P. J. Gaidhane
6	Dinner at the place of stay (Principal, IQAC coordinator and 1-2 BoG members if possible)	Shri. M. S. Sadawarte, Shri. P. J. Turare, Shri. U. T. Patil

Day 1 and 2 - 13.09.2024 and 14.09.2024

7	Reception Committee: Welcome to Hon Chairperson and Members of Peer Team by Institute (Day 1, 2) – anchoring and overall coordination.	Shri. S. D. Cheke, Smt Dr. S. C. Jadhav, Shri. Deshpande V. V. Shri. S. S. Borade
8	Presentation by Principal (Day 1)	Principal
9	Presentation by IQAC coordinator (Day 1)	Smt. M. R. Bachawad, Shri. S. O. Dahad
10	Meeting with IQAC coordinator, HoDs and Deans	Dr. P. J. Gaidhane, Shri. S. G. Adam
11	Visit to academic, administrative and amenities facilities - data of area required as per AICTE norms and available area should be ready (All Buildings) (Day 1 and 2)	Smt. Dr. V. R. Saraf, Dr. S. S. Nerkar, Shri. M. S. Ugale
12	Lunch – Meeting with President, BoG members, DTE and University representatives (Day 1 and 2)	Dr. S. P. Mohani and food committee
13	Meeting with students (Day 1) – call to selected students, keep attendance sheet etc ready, if required mock meeting.	Dr. R. B. Kambale, Smt. B. V. Kalsait
14	Meeting with alumni (Day 1) – call to selected alumni, keep attendance sheet etc ready, if required mock meeting.	Smt. Dr. S. C. Jadhav, Shri. M. S. Patil
15	Meeting with employer/industry persons and parents (Day 1) call to selected employer/industry persons, mock meeting.	Shri. M. S. Sadavarte, Smt. M. H. Patil and III cell
16	Meeting with non-teaching staff (Day 1)	Registrar and O.S.
17	Meeting with faculty members (Day 1)	Dr. M. K. Sonpimpale, Shri. H. Y. Deshmukh
18	Meeting with IQAC members in IQAC office (Day 1)	Dr. P. J. Gaidhane, Smt. M. R. Bachawad
19	Meeting with various committee in-charges	Smt M. S. Harane, Shri. V. B. Bhaddive
20	Cultural Program (Day 1) 45 to 50 minutes. Tree Plantation, Ganapati Aarati, other cultural activity.	Dr. Smt. M. R. Dhotre, Smt K. R. Sarode, Dr. Shreekant Tare
21	Team discussion at the place of stay (Day 1 and 2)	Smt. M. R. Bachawad, Dr. P. J. Gaidhane
22	Document Verification (Day 1 and 2)	Smt M. R. Bachawad, Shri. S. O. Dahad, Dr. P. J. Gaidhane,
23	Report preparation by peer team (Day 2)	Shri. S. O. Dahad, Smt. J. C. Patil
24	Report preparation by peer team (Final Report) (Day 2)	Shri. S. O. Dahad, Smt. J. C. Patil
25	Exit Meeting (Day 2)	Smt M. R. Bachawad, Dr. P. J. Gaidhane
26	Any other miscellaneous work	Dr P. J. Gaidhane, Shri. S. G. Adam Shri. J. N. Jadhav , Shri. D. N. Avhad

Dr. Suhas Sudhakarrao Gajre
Principal

Copy to: All faculty and staff members through HoD

17

Government College of Engineering, Jalgaon

Analysis of NAAC Cycle II Grade Report

Criterion I – Curricular Aspects (150)   Ql : 245/75 = 3.27 and Qn 340/85 = 4,   Total 585/150 = 3.9

Metric No.	Metric	Marks	M. F.	Tot Mark
1.1.1 QlM	Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes offered by the institution	20	4	80
1.1.2 QlM	The programmes offered by the institution focus on employability/ entrepreneurship/skill development and their course syllabi are adequately revised to incorporate contemporary requirements	30	4	120
1.2.1 QnM	**Percentage of new courses introduced out of the total number of courses across all programmes offered during the last five years**	**30**	**4**	**120**
1.3.1 QlM	Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum	15	3	45
1.3.2 QnM	**Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms where the students of the institution have enrolled and successfully completed during the last five years**	**25**	**4**	**100**
1.3.3 QnM	**Percentage of programmes that have components of field projects / research projects / internships during the last five years.**	**10**	**4**	**40**
1.4.1 QnM	**Structured feedback for curriculum and its transaction is regularly obtained from stakeholders like Students, Teachers, Employers, Alumni, Academic peers etc., and Feedback processes of the institution may be classified as follows:**	**20**	**4**	**80**

Criterion II – Teaching Learning (300)   Ql : 340/110 = 3.09 and Qn 477/190 = 4,   Total 817/300 = 2.72

Metric No.	Metric	Marks	M. F.	Tot Mark
2.1.1 QnM	**Enrolment percentage -**	**10**	**2**	**20**
2.1.2 QnM	**Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years**	**10**	**4**	**40**
2.2.1 QlM	The institution assesses the learning levels of the students and organises special Programmes to cater to differential learning needs of the student	15	3	45
2.2.2 QnM	**Student - Full time teacher ratio (Data for the latest completed academic year)**	**15**	**2**	**30**
2.3.1 QlM	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process	30	3	90
2.3.2 QlM	The institution adopts effective Mentor-Mentee Schemes to address academics and student-psychological issues	10	3	30

NAAC for Quality and Excellence in Higher Education

18

2.3.3 QlM	Preparation and adherence of Academic Calendar and Teaching plans by the institution	10	4	40
2.4.1 QnM	**Average percentage of full time teachers appointed against the number of sanctioned posts year wise during the last five years**	**15**	**0**	**0**
2.4.2 QnM	**Percentage of full time teachers with Ph.D./D.Sc. / D.Litt./ L.L.D during the last five years**	**25**	**0**	**0**
2.4.3 QnM	**Average teaching experience of full time teachers (Data to be provided only for the latest completed academic yr, in number of yrs)**	**5**	**4**	**20**
2.4.4 QnM	**Percentage of full time teachers working in the institution throughout during the last five years**	**5**	**1**	**5**
2.5.1 QnM	**Average number of days from the date of last semester-end/ year-end examination till the last date of declaration of results during the last five years**	**20**	**4**	**80**
2.5.2 QnM	**Percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years**	**15**	**4**	**60**
2.5.3 QlM	IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA)/Formative Assessment have brought in considerable improvement in Examination Management System (EMS)	15	3	45
2.6.1 QlM	The institution has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution	30	3	90
2.6.2 QnM	**Pass percentage of students (excluding backlog students) (Data for the latest completed academic year)**	**20**	**4**	**80**
2.7.1 QnM	**Online student satisfaction survey regarding the teaching learning process.**	**50**	**2.83**	**142**
Criterion III – &D, Ext Activities (150) Ql : 98/46 = 2.13 and Qn 173/104 = 1.66, Total 271/150 = 1.81				
3.1.1 QlM	The institution's research facilities are frequently updated and there are well defined policy for promotion of research which is uploaded on the institutional website and implemented.	6	3	18
3.1.2 QnM	**The institution provides seed money to its teachers for research**	**8**	**0**	**0**
3.1.3 QnM	**Percentage of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the last five years**	**6**	**4**	**24**
3.2.1 QnM	**Research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowment research chairs during the last five years**	**5**	**0**	**0**
3.2.2 QnM	**Number of research projects per teacher funded by government, non-government , industry, corporate houses, international bodies during the last five years**	**2**	**0**	**0**
3.2.3 QnM	**Percentage of teachers recognised as research guides as in the latest completed academic year**	**3**	**3**	**9**

NAAC for Quality and Excellence in Higher Education

l9

2

3.3.1 QlM	Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident.	10	2	20
3.4.1 QnM	**The Institution ensures implementation of its stated Code of Ethics for research**	**5**	**3**	**15**
3.4.2 QnM	**Number of candidates registered for Ph. D per teacher during the last five years**	**5**	**3**	**15**
3.4.3 QnM	**Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years**	**5**	**2**	**10**
3.4.4 QnM	**Number of books and chapters in edited volumes published per teacher during the last five years.**	**5**	**0**	**0**
3.4.5 QnM	**Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science.**	**5**	**2**	**10**
3.4.6 QnM	**Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-index of the Institution**	**5**	**2**	**10**
3.5.1 QnM	**Revenue generated from consultancy and corporate training during the last five years**	**10**	**4**	**40**
3.6.1 QlM	Outcomes of extension activities in the neighbourhood community in terms of impact and sensitizing the students to social issues and holistic development, and awards received if any during the last five years	30	2	60
3.6.2 QnM	**Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community year wise during the last five years**	**20**	**0**	**0**
3.7.1 QnM	**Number of functional MoUs/linkages with institutions/industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years**	**20**	**2**	**40**
Criterion IV – Infrastructure (100) Ql : 187/65 = 2.88 and Qn 125/35 = 3.57, Total 312/100 = 3.12				
4.1.1 QlM	The Institution has adequate infrastructure and other facilities for (a) teaching – learning, viz., classrooms, laboratories, computing equipment etc (b) ICT – enabled facilities such as smart class, LMS etc. (c) Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc.	20	3	60
4.1.2 QnM	**Percentage of expenditure excluding salary, for infrastructure development and augmentation year wise during the last five years**	**10**	**4**	**40**
4.2.1 QlM	Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty & students	15	3	45
4.2.2 QnM	**Percentage of expenditure for purchase of books/ e-books and subscription to journals/e-journals year wise during the last five years**	**5**	**1**	**5**
4.3.1 QlM	Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection.	12	3	36
4.3.2 QnM	**Student - Computer ratio (Data for the latest completed academic year).**	**10**	**4**	**40**

4.3.3 QlM	Institution has dedicated audio visual centre, mixing equipment, editing facility, media studio, lecture capturing system(LCS) and related hardware and software for e-content development	8	2	16
4.4.1 QnM	**Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years.**	**10**	**4**	**40**
4.4.2 QlM	There are established systems and procedures for maintaining and utilizing physical and academic support facilities – laboratory, library, sports complex, computers, classrooms etc.	10	3	30

Criterion V – Students' Support (100)   Ql : 42/21 = 2.00 and Qn 256/79= 3.24,   Total 298/100 = 2.98

5.1.1 QnM	**Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last 5 yrs**	**11**	**4**	**44**
5.1.2 QlM	Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations during the last five years.	6	2	12
5.1.3 QnM	**Following capacity development and skills enhancement activities are organised for improving students' capability - Soft skills, Language and communication skills, Life skills, Awareness of trends in technology**	**8**	**4**	**32**
5.1.4 QnM	**The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases, Implementation of guidelines of statutory/regulatory bodies, Organisation wide awareness and undertakings on policies with zero tolerance, Mechanisms for submission of online/offline students' grievances, Timely redressal of the grievances through appropriate committees**	**5**	**4**	**20**
5.2.1 QnM	**Percentage of placement of outgoing students and students progressing to higher education during the last five years**	**20**	**2**	**40**
5.2.2 QnM	**Percentage of students qualifying in state/ national/ international level examinations out of the graduated students during the last 5 yrs (eg:NET/SLET/ Civil Services/State government examinations)**	**10**	**4**	**40**
5.3.1 QnM	**Number of awards/medals for outstanding performance in sports/cultural activities at University / state /national / international Level events during the last five years.**	**15**	**4**	**60**
5.3.2 QlM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	10	2	20
5.3.3 QnM	**The institution conducts / organizes following activities: Sports competitions/events, Cultural competitions/events, Technical fest/Academic fest, Any other events through Active clubs and forums**	**5**	**4**	**20**
5.4.1 QnM	**Alumni contribution during the last five years to the institution through registered Alumni association**	**5**	**0**	**0**
5.4.2 QlM	Alumni contributes and engages significantly to the development of institution through academic and other support system.	5	2	10

Criterion VI–Governance/Leadership(100) Ql : 158/56 = 2.82 & Qn 161/44= 3.66,Total 319/100 = 3.19				
6.1.1 QlM	The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.	15	3	45
6.2.1 QlM	The institutional perspective plan is effectively deployed and functioning of the institutional bodies are effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc.	6	3	16
6.2.2 QnM	**Institution implements e-governance in its operations e-governance is implemented covering the following areas of operations: (1)Administration including complaint management (2)Finance and Accounts (3)Student Admission and Support 4)Examinations**	4	4	16
6.3.1 QlM	The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression	5	4	20
6.3.2 QnM	**Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**	15	3	45
6.3.3 QnM	**Percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDPs)/ Management Development Programmes (MDPs) during the last five years**	10	4	40
6.4.1 QlM	Institutional strategies for mobilisation of funds other than salary and fees and the optimal utilisation of resources.	5	2	10
6.4.2 QnM	**Funds / Grants received from government bodies, non-government bodies, and philanthropists during the last five years (not covered in Criterion III and V)**	5	4	20
6.4.3 QlM	Institution regularly conducts internal and external financial audits regularly	5	3	15
6.5.1 QlM	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes, by constantly reviewing the teaching-learning process, structures & methodologies of operations and learning outcomes, at periodic intervals Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)	10	3	30
6.5.2 QlM	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms	10	2	20
6.5.3 QnM	**Institution has adopted the following for Quality assurance: 1. Academic and Administrative Audit 2.Conferences, Seminars, Workshops on quality conducted 3. Collaborative quality initiatives with other institution(s) 4.Orientation programme on quality 5. Participation in NIRF and other recognized ranking 6.Any other quality audit recognized by state, national or international agencies**	10	4	40

Criterion VII–Values/Best Practices (100) Ql : 176/79 = 2.23 & Qn 73/21= 3.48, Total 249/100 = 2.49			
7.1.1 QlM	Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.	5	3	15
7.1.2 QnM	**The Institution has facilities for alternate sources of energy and energy conservation measures 1. Solar energy 2. Biogas plant 3. Wheeling to the Grid 4. Sensor-based energy conservation 5. Use of LED bulbs/ power efficient equipment 6. Wind mill or any other clean green energy**	6	3	18
7.1.3 QlM	Facilities in the Institution for the management of Solid waste management, Liquid waste management, Biomedical waste management, e-Waste management, Waste recycling system, Hazardous chemicals and radioactive waste management	6	2	12
7.1.4 QnM	**Water conservation facilities available in the Institution: Rain water harvesting 2. Borewell /Open well recharge 3. Construction of tanks and bunds 4. Waste water recycling 5. Maintenance of water bodies and distribution system in the campus.**	5	3	15
7.1.5 QlM	Green campus initiatives include Describer the Green campus initiative of the institution including Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles , Pedestrian Friendly pathways , Ban on use of Plastic, landscaping with trees and plants etc in 500 words	4	3	12
7.1.6 QnM	**Quality audits on environment and energy are regularly undertaken by the institution 1. Green audit / Environmental audit 2. Energy audit 3.Clean and green campus recognitions/awards 4. Beyond the campus environmental promotion and sustainability activities.**	5	3	15
7.1.7 QlM	The Institution has Differently-abled (Divyangjan) friendly, barrier free environment Built environment with Ramps/lifts for easy access to classrooms Divyangjan friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading.	5	2	10
7.1.8 QlM	Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and such other diversities	5	3	15
7.1.9 QlM	Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens Describe the various activities in the Institution for inculcating values for being responsible citizens as reflected in the Constitution of India within 500 words.	4	3	12
7.1.10 QnM	**The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**	5	3	15

7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.	30	2	60
7.3.1 QIM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words	20	2	40

Quantitative Metrics Analysis

Sr No	Criteria No	Max Marks	Score	CGPA
1	Criteria I	85	340	4.00
2	Criteria II	190	477	2.51
3	Criteria III	104	173	1.66
4	Criteria IV	35	125	3.57
5	Criteria V	79	256	3.24
6	Criteria VI	44	161	3.66
7	Criteria VII	21	73	3.48
	Total	558	1605	2.88
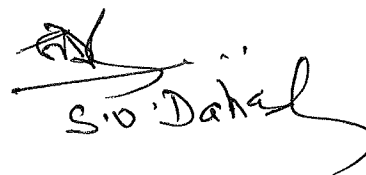
Qualitative Metrics Analysis

Sr No	Criteria No	Max Marks	Score	CGPA
1	Criteria I	65	245	3.77
0	Criteria II	110	340	3.09
3	Criteria III	46	98	2.13
4	Criteria IV	65	187	2.88
5	Criteria V	21	42	2.00
6	Criteria VI	56	158	2.82
7	Criteria VII	79	176	2.23
	Total	442	1246	2.82

Total Analysis

Sr No	Criteria No	Max Marks	Score	CGPA
1	Criteria I	150	585	3.90
2	Criteria II	300	817	2.72
3	Criteria III	150	271	1.81
4	Criteria IV	100	312	3.12
5	Criteria V	100	298	2.98
6	Criteria VI	100	319	3.19
7	Criteria VII	100	249	2.49
	Total	1000	2851	2.85

24

NAAC for Quality and Excellence in Higher Education

7

INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 2)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
GOVERNMENT COLLEGE OF ENGINEERING JALGAON
C-8946

Jalgaon
Maharashtra
425002

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA

25

Section I: GENERAL INFORMATION

1.Name & Address of the institution:	GOVERNMENT COLLEGE OF ENGINEERING JALGAON Jalgaon Maharashtra 425002
2.Year of Establishment	1996
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	1
Departments/Centres:	6
Programmes/Course offered:	9
Permanent Faculty Members:	36
Permanent Support Staff:	47
Students:	1543
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Admission in all programs is very good. 2. Located in the center of city. 3. Autonomous Engineering College under Maharashtra Government
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 13-09-2024 To : 14-09-2024
6.Composition of Peer Team which undertook the on site visit:	

	Name	Designation & Organisation Name
Chairperson	DR. DAMODARAM AVULA	Vice Chancellor,Sri Venkateswara University, Tirupati
Member Co-ordinator:	DR. BAHADUR SINGH PABLA	FormerFormer Pro-Vice Chancellor,Chandigarh University
Member:	DR. P R SREEMAHADEVAN PILLAI	FormerDean,UNIVERSITY OF CALICUT
NAAC Co - ordinator:	Dr. Vishnu Mahesh K R	

26

Section II:CRITERION WISE ANALYSIS
Observations (Strengths and/or Weaknesses) on each qualitative metrices of the key Indicator under the respective criterion(This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QlM) in Criterion1)	
1.1	Curriculum Design and Development
1.1.1 QlM	**Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes offered by the institution**
1.1.2 QlM	**The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QlM	**Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum**
1.4	Feedback System

Qualitative analysis of Criterion 1
Government College of Engineering, Jalgaon is an Autonomous Institute affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University (KBC JNU), Jalgaon. College designs and reviews its curriculum. The curriculum for all the programs has been revised as per NEP2020 guidelines and implemented from 2022-23 session. The timetable, for each semester, for all the programs is well balanced and consists academic, co-curricular and extracurricular activities. Vision, Mission, PEOs, POs and PSOs for the College and Departments have been developed. Course Outcomes for all the subjects have been developed and form a part of the curriculum. The curriculum covers all the components for theory, practical, co-curricular and curricular activities. In addition, the students are offered short training programs on Professional Ethics, Gender, Human Values, Environment and Sustainability. College prepares and follows academic calendar for the activities to be undertaken during the year. Library has good collection of resources but during the last year no new books were purchased.

2-7

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QlM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QlM	**The institution assesses the learning levels of the students and organises special Programmes to cater to differential learning needs of the student**
2.3	Teaching- Learning Process
2.3.1 QlM	**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT-enabled tools including online resources for effective teaching and learning process**
2.3.2 QlM	**The institution adopts effective Mentor-Mentee Schemes to address academics and student-psychological issues**
2.3.3 QlM	*Preparation and adherence of Academic Calendar and Teaching plans by the institution* Describe the Preparation and adherence to Academic Calendar and Teaching plans by the institution.
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.3 QlM	**IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA)/Formative Assessment have brought in considerable improvement in Examination Management System (EMS) of the Institution** Describe the examination reforms with reference to the following within a minimum of 500 words • Examination procedures • Processes integrating IT • Continuous internal assessment system
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	**The institution has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution**
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2
The timetable for each semester for all the programs is well balanced and consists academic, co-curricular and extracurricular activities. The college has initiated the process for implementing new pedagogical approaches like experiential learning, project based learning and cooperative learning. Internal Quality Assurance Cell (IQAC) is in place which conducts number activities for quality improvement. IQAC conducts quality audit of the academic activities. The college facilitates internships with industry partners and government agencies to provide opportunities for students to learn and apply their skills and knowledge to the real-world problems. There is a separate examination cell which implements the formative and summative assessment as per guidelines approved by Board of Governors. The evaluated answer sheets are shown to the students with a provision to get clarifications and corrections through open house. The attainment of COs and POs are calculated and the process is well documented. Both direct and indirect assessments are used to calculate the attainment of POs. However, the process of Continuous Quality Improvement is not visible. The college arranges expert lectures from industry and other institutions on various topics. Industry visits are limited to local industry, which is a major constraint. The laboratory sessions are conducted but the availability of

updated experimental setup is required. There are courses on student projects i.e Minor Project and Major Projects to reinforce the student learning. In addition, community engement projects are undertaken by students.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QlM) in Criterion3)	
3.1	Promotion of Research and Facilities
3.1.1 QlM	**The institution's research facilities are frequently updated and there are well defined policy for promotion of research which is uploaded on the institutional website and implemented**
3.2	Resource Mobilization for Research
3.3	Innovation Ecosystem
3.3.1 QlM	**Institution has created an ecosystem for innovations, Indian Knowledge System (IKS),including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident**
3.4	Research Publications and Awards
3.5	Consultancy
3.6	Extension Activities
3.6.1 QlM	**Outcomes of extension activities in the neighbourhood community in terms of impact and sensitizing the students to social issues and holistic development, and awards received if any during the last five years (Showcase at least four case studies to the peer team)** Describe the impact of extension activities in sensitising students to social issues and holistic development with four case studies within a maximum of 500 words
3.7	Collaboration

Qualitative analysis of Criterion 3
Institute supports research and innovation activities. Institute has adequate computational facilities to promote research and development activities. There are 5 University recognised research laboratories in the institute. Seven faculty members of the college are recognized as research supervisors and they are guiding research scholars. The institute has set up an innovation ecosystem through its Institute Innovation Council for innovations. College conducts programs on Indian Knowledge System, IPR, Incubation and innovations .   Institute has signed number of MoUs with industries, HEIs and social organizations. College has incentive system for encouraging research publications.   Institute conducts workshops, seminars, expert lectures for research promotion. Few faculty members are providing consultancy to local industries.

29

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices(QlM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QlM	**The Institution has adequate infrastructure and other facilities for** 1. **teaching – learning, viz., classrooms, laboratories, computing equipment etc** 2. **ICT – enabled facilities such as smart class, LMS etc.** 3. **Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc.**
4.2	Library as a Learning Resource
4.2.1 QlM	**Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students**
4.3	IT Infrastructure
4.3.1 QlM	**Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection** Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words
4.3.3 QlM	**Institution has dedicated audio visual centre, mixing equipment, editing facility, media studio, lecture capturing system(LCS) and related hardware and software for e-content development**
4.4	Maintenance of Campus Infrastructure
4.4.2 QlM	**There are established systems and procedures for maintaining and utilizing physical and academic support facilities – laboratory, library, sports complex, computers, classrooms etc.** Describe policy details of systems and procedures for maintaining and utilizing physical, academic and support facilities within a maximum of 500 words

Qualitative analysis of Criterion 4
The campus is spread over 19.38 acres land. Academic has facilities and laboratories to meet the requirements of curriculum. Upgradation of all the laboratories in all the departments are required . College has a language laboratory with required software. Old non-working and unrepairable equipment has not been written off. Institute has an open-air theatre and seminar halls in addition to the classrooms. Majority of the classrooms are fitted with LCD Projector. College has internet connectivity with Wi-Fi. Institute has play grounds which are ill maintained. There is an indoor gymnasium which also needs immediate maintenance and upgradation. There are hostels for boys and girls in the college campus. The college has good greenery. In addition, college has solar power system and rain water harvesting system.

30

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrices(QlM) in Criterion5)	
5.1	Student Support
5.1.2 QlM	**Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations during the last five years**
5.2	Student Progression
5.3	Student Participation and Activities
5.3.2 QlM	**Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.** Describe the Student Council activity and students' role in academic & administrative bodies within a maximum of 500 words
5.4	Alumni Engagement
5.4.2 QlM	**Alumni contributes and engages significantly to the development of institution through academic and other support system** **Describe the alumni contributions and engagements within a maximum of 500 words**

Qualitative analysis of Criterion 5
GCOE Jalgaon has constituted all the mandatory committees, conducting meetings. The institute conducts expert lectures for the students for various competitive examinations like GATE, MPSC, UPSC etc. Career counselling programs and soft skill development activities such as advanced communication skills training, foreign language trainings, personality development programs and interpersonal skills development programs etc are arranged. Students' personal counseling is encouraged via mentor mentee scheme. There are cultural & technical programs also. Cultural programs like ABHIVYAKTI (State level), annual social gathering and technical events like TECHO-ARENA (National level) and TECHNO-VISION (national level) are being organized. The institute facilitates all the scholarships offered by both the State and Central Government. All the eligible students admitted in reserved category are receiving financial assistance from State Government. Economically backward students are facilitated by EBC scheme. Timely redressal of grievances are ensured by the committees like Grievance Redressal Committee, Anti Ragging Committee, and Sexual Harassment Committee. Institute has an alumni association. Every year GCoEJ convenes alumni meet.

3|

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QlM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QlM	**The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.**
6.2	Strategy Development and Deployment
6.2.1 QlM	**The institutional perspective plan is effectively deployed and functioning of the institutional bodies are effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc**
6.3	Faculty Empowerment Strategies
6.3.1 QlM	**The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression**
6.4	Financial Management and Resource Mobilization
6.4.1 QlM	**Institutional strategies for mobilisation of funds other than salary and fees and the optimal utilisation of resources** Describe the resource mobilisation policy and procedures of the Institution within a maximum of 500 words
6.4.3 QlM	**Institution regularly conducts internal and external financial audits regularly** **Enumerate the various internal and external financial audits carried out during the last five years with the mechanism for settling audit objections within a maximum of 500 words**
6.5	Internal Quality Assurance System
6.5.1 QlM	**Internal Quality Assurance Cell (IQAC)/ Internal Quality Assurance System (IQAS) has contributed significantly for institutionalizing the quality assurance strategies and processes, by constantly reviewing the teaching-learning process, structures & methodologies of operations and learning outcomes, at periodic intervals** **Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of –** • **Incremental improvements made for the preceding five years with regard to quality (in case of first cycle)** • **Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)** **Describe two practices institutionalized as a result of IQAC initiatives within a maximum of 500 words**
6.5.2 QlM	**The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms** Describe any two examples of institutional reviews and implementation of teaching learning reforms facilitated by the IQAC within a maximum of 500 words each.

3৮

Qualitative analysis of Criterion 6	
College has prepared a perspective plan, including short and long-term goals which are linked with its vision and mission. The curriculum structure of institute has been aligned to the recommendations of NEP-2020 from the academic year 2023-24. Active participation in institutional governance is cultivated by the management. At the beginning of every academic year institute level and department level portfolios are assigned to faculty/staff members to constitute the various committees to manage different institutional activities and all faculty/staff, students and alumni, etc. collectively contribute to the institution development. College follows rules and policies regarding recruitment, pay scale and promotion including Career Advancement Scheme (CAS) are as per norms of AICTE and Government of Maharashtra. Government of Maharashtra performance appraisal system is followed in this institute. Welfare measures for teaching and non-teaching staff and avenues for career development/progression, finance management including budgeting and auditing, etc are as per the norms of Government of Maharashtra for autonomous institutes.	

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QlM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QlM	**Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.** Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words
7.1.3 QlM	**Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)** • Solid waste management • Liquid waste management • Biomedical waste management • e-Waste management • Waste recycling system • Hazardous chemicals and radioactive waste management
7.1.5 QlM	**Green campus initiatives include** Describe the Green campus initiative of the institution including Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles , Pedestrian Friendly pathways , Ban on use of Plastic, landscaping with trees and plants etc in 500 words
7.1.7 QlM	*The Institution has Differently-abled (Divyangjan) friendly, barrier free environment* *Write description covering the various components of barrier free environment in your institution in maximum of 500 words* • Built environment with Ramps/lifts for easy access to classrooms • Divyangjan friendly washrooms • Signage including tactile path, lights, display boards and signposts • Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment • Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading

33

7.1.8 QlM	Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and such other diversities (within 500 words).
7.1.9 QlM	*Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens* Describe the various activities in the Institution for inculcating values for being responsible citizens as reflected in the Constitution of India within 500 words.
7.2	Best Practices
7.2.1 QlM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual
7.3	Institutional Distinctiveness
7.3.1 QlM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Qualitative analysis of Criterion 7
Institute focuses on educating students on various environment related issues. Institute conducts formal energy, environment, and green audit in the institute. For energy conservation, the old power consuming lamps are replaced with latest low wattage lighting system (LED). The importance of frugal usage of power is advised to students and staff. Institute has established activities like rain water harvesting, waste management, recycling of biodegradable waste, tree planting, cleaning of water reservoirs etc. to contribute to environmental protection. Initiatives like "Swachcha Bharat Abhiyan", e-Waste Management, Hazardous waste management are present to an extent. The two best practices: **(A):** Rain water harvesting and green campus. **(B):** Sustainable energy generation by solar power. **Distinctiveness:** Stake holders have a strong commitment for institutional development and growth.

Section III:OVERALL ANALYSISbased on Institutional strengths.Weaknesses,Opportunities & Challenges(SWOC)(up to 500 words)
Overall Analysis
Strength: 1. Government Engineering College with financial support from Government of Maharashtra. 2. Autonomous College with academic autonomy with flexibility to design and review the programs being offered. 3. Admissions are good in all program and quality of students is good. 4. Recognised for offering Ph D in 5 Engineering Disciplines. 5. Good Library infrastructure.

34

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Weaknesses:

1. Acute shortage of faculty and supporting staff. Only 36 regular faculty members are available out of sanctioned strength of 86. Rest of faculty members are working as visiting faculty on hourly basis.
2. Laboratories in all the departments need upgradation. There has been no upgradation for the last 5-6 years.
3. Equipment maintenance is poor.
4. Research and development are weak. No funded research projects.
5. Faculty is not fully conversant with Outcome Based Education as such OBE is not implemented properly.

Opportunities:

1. Initiate research in interdisciplinary areas.
2. Collaborate with industry for student and faculty training and internship.
3. IRG through consultancy and research projects.
4. Implement government and non-government initiatives for skill development.

Challenges:

1. Poor connectivity
2. Improve infrastructural facilities and student amenities.
3. Increased competition from national and international HEIs
4. Non availability of funds for research activities/projects.

Section IV:Recommendations for Quality Enhancement of the Institution

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- Immediate recruitment of faculty with experience and improve faculty profile

- Implement Outcome Based Education.

- Train the faculty in advanced pedagogy approaches.

- Apply for sponsored projects from Government and non-Government agencies.

- Initiate innovation and startup training

I have gone through the observations of the Peer Team as mentioned in this report

Signature of the Head of the Institution

Seal of the Institution

35

Sl.No	Name		Signature with date
1	DR. DAMODARAM AVULA	Chairperson	
2	DR. BAHADUR SINGH PABLA	Member Co-ordinator	
3	DR. P R SREEMAHADEVAN PILLAI	Member	
4	Dr. Vishnu Mahesh K R	NAAC Co - ordinator	

Place

Date

36

Annexure – VI

About Institute:

The Government College of Engineering was established in 1996. The institute is affiliated to the Kaviyatri Bahinabai North Maharashtra University, Jalgaon. Institution has been NAAC accredited with a CGPA of 2.85 on a 4-point scale at B++ Grade valid for 5 years from 21-09-2024. The institute has been granted academic autonomy by the affiliating university and Government of Maharashtra since June 2014. The institute offers undergraduate, post-graduation, and Ph.D. programs in Engineering. The details of these programs are as under:

Undergraduate Programs

Sl. No.	Branch	Intake	Year of Establishment	Accreditation Status
1	Mechanical Engineering	60	1996	Accredited (2018-2021)
2	Instrumentation Engineering	60	1996	Accredited (2018-2021)
3	Electronics and Telecommunication Engineering	60	1996	Applied for Re-accreditation, SAR Uploaded
4	Computer Engineering	60	2007	NA
5	Electrical Engineering	60	2007	NA
6	Civil Engineering	60	2010	NA

Postgraduate Programs

Sl. No.	Branch	Intake	Year of Establishment
1	Electronics and Telecommunication Engineering (Digital Systems)	18	2010
2	Heat Power - Mechanical Engineering	18	2021
3	Electrical Instrumentation and Control Engineering	18	2021

Research Programs (Ph. D.)

Sl. No.	Branch	Year of Establishment
1	Mechanical Engineering	2018
2	Instrumentation Engineering	2018
3	Electronics and Telecommunication Engineering	2018
4	Electrical Engineering	2018
5	Civil Engineering	2018

37

Apart from educational activities, the institute continuously organizes extra-curricular activities like seminars, workshops, and lectures by dignitaries in the respective fields. With the changing technological front, the institute keeps regularly updating laboratories, infrastructure, computers, and machinery. Development of the institute since its establishment is as follows:

1996 - Established and Affiliated to KBCNMU, Jalgaon (3 UG programs)

2007 - Occupied present building- 19.35 Acres and 2 new UG courses

2009 - Accreditation of 3 UG programs (E &Tc, Mechanical & Instrumentation)

2010 - Commencement of UG program in Civil and PG Program in E&Tc

2012-16 - Inclusion in TEQIP II (Rs. 15 Crore)

2014 - Autonomy granted by UGC & KBCNMU, Jalgaon

2018 – Re-accreditation by NBA (Mechanical & Instrumentation)

2018- Selected under TEQIP III (Rs. 7 Crore) - NAAC accreditation with B+ (2.67) •

2018 – Recognized research centers for Ph. D. (23 students)

2020- 2 PG Programs added (Mechanical and Instrumentation)

2021 – Extension of Autonomy

Board of Governance:

Composition of BoG

List of Members		
Sr. No.	Name,Designation and Affiliation	Designation in BoG
1	Shri. Ashok Jain, Chairperson and Executive Director, Jain Irrigation System ltd. Jalgaon	Chairman
2	Shri. Bhalchandra Patil,Managing Director, Vega Chemical Pvt. Ltd. Jalgaon	Member
3	Shri. Manoj Patil, Founder Director, Trimurti Shikshan Prasarak Mandal, Jalgaon	Member
4	Shri. Sanjay Birla, Shree Kshudha Shanti Seva Sanstha Jalgaon	Member
5	Dr. K. P. Singh, Joint Secretary, UGC New Delhi	Member
6	Dr. Vinod Mohitkar, Director, DTE, Maharashtra State	Member
7	Dr. J. B. Naik, KBC NM University Nominee	Member
8	Dr. S. T. Vagge, GCOE Jalgaon Nominee	Member
9	Dr. S. P. Mohani, GCOE Jalgaon Nominee	Member
10	Shri. V. C. Rastogi, Principal Secretary, Department of Higher and Technical Education, Maharashtra State	Invitee
11	Dr. Suhas S. Gajre, Principal, Govt College Of Engineering, Jalgaon	Member Secretary

Infrastructure:

The college was established in 1996. Since then the adequate availability of physical infrastructure was duly identified and has been planned and constructed accordingly. Every department is provided with built up space as per the requirements of AICTE in the form of class rooms, laboratories, tutorial and seminar rooms, staff rooms and departmental library. In addition to this there are central facilities, library, computing facility and student recreational facilities. Allied areas of hostels, and mess to cater the needs of students. The campus also provides appropriate parking facilities for two wheelers and four wheeler vehicles.

Preamble: Internal Quality Assurance Cell (IQAC)

In pursuance of its Action Plan for performance evaluation, assessment and accreditation and quality up-gradation of institutions of higher education, the National Assessment and Accreditation Council (NAAC), Bangalore proposes that every accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a post-accreditation quality sustenance measure. Since quality enhancement is a continuous process, the IQAC will become a part of the institution's system and work towards realisation of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. For this, during the post-accreditation period, it will channelize all efforts and measures of the institution towards promoting its holistic academic excellence.

Objectives:

The Goal of IQAC is:

1. To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.

2. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Strategies:

IQAC Work For:

1. Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks

2. The relevance and quality of academic and research programmes

3. Equitable access to and affordability of academic programmes for various sections of society

4. Optimization and integration of modern methods of teaching and learning;

5. The credibility of evaluation procedures

6. Ensuring the adequacy, maintenance and proper allocation of support structure and services

7. Sharing of research findings and networking with other institutions in India and abroad.

Functions:

Functions of the IQAC are:

1. Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution

2. Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process

3. Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes;

4. Dissemination of information on various quality parameters of higher education

5. Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles

6. Documentation of the various programmes/activities leading to quality improvement

7. Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;

Benefits:

IQAC will Contribute:

1. Ensure heightened level of clarity and focus in institutional functioning towards quality enhancement

2. Ensure internalization of the quality culture

3. Ensure enhancement and coordination among various activities of the institution and institutionalize all good practices

4. Provide a sound basis for decision-making to improve institutional functioning

5. Act as a dynamic system for quality changes in HEIs

6. Documentation of the various programmes/activities leading to quality improvement

7. Build an organised methodology of documentation and internal communication.

40

IQAC Composition:

Sr. No.	Name of the Member	Required Composition
1	Dr. Suhas Sudhakarrao Gajre Principal	Chairperson
2	Shri. Sanjay Birla Member, BoG	Member from the Management
3	Dr. S. P. Mohani, Dean Academic	Senior administrative
4	Shri. S. O. Dahad	Local society nominee
5	Shri. Deepak Chaudhary, Spectrum Industries	Industry representative
6	Shri. Arun Madhavrao Dongardive	Teacher representation
7	Mr. Shirish Govind Adam Associate Dean (Quality Assurance)	Teacher representation
8	Dr. Mrs. Vidya Rohidas Saraf	Teacher representation
9	Shri. Tukaram Kashinath Gawali	Teacher representation
10	Shri. Deepa Pralhadrao Yavalkar	Teacher representation
11	Dr. Samadhan Chandrakantrao Kulkarni	Teacher representation
12	Shri. Sachinkumar Madhukar Wani	Teacher representation
13	Dr. Parag A. Narkhede	Alumni representation
14	General Secretary SRC.	Student representative
15	Dr. Prashant Jaichand Gaidhane, Dean (Quality Assurance)	IQAC Coordinator

IQAC Meetings and MoMs

Members for IQAC Meeting 1st to 5th	Dr. G. M. Malwatkar, Dr. M. K. Sonpimple, Prof. S. S. Dhamse, Dr. P. J. Gaidhane, Shri. D. V. Chaudhari, Shri. V. T. Patil, Dr. S. P. Mohani, Dr. S. B. Chikalthankar, Dr. S. A. Patil, Mrs. M. R. Bachawad
Members for IQAC Meeting 6th to 7th	Dr. G. M. Malwatkar, Dr. M. K. Sonpimple, Prof. S. S. Dhamse, Dr. P. J. Gaidhane, Shri. D. V. Chaudhari, Shri. V. T. Patil, Dr. S. P. Mohani, Dr. S. T. Vagge, Dr. S. B. Chikalthankar, Dr. S. A. Patil, Mrs. M. R. Bachawad
Members for IQAC Meeting 8th	Dr. S. S. Gajre, Dr. R. B. Kamble, Dr. S. S. Nerkar, Dr. S. A. Patil, Dr. V. R. Saraf, Dr. S. C. Kulkarni, Shri. S. G. Adam, Dr. S. T. Vagge, General Secretary (SRC), Shri. S. O. Dahad, Mrs. M. R. Bachawad, Shri. Dipak Chaudhari, Shri. Sanjay Birla, Dr. Parag Narkhede.
Members for IQAC Meeting 9th	Dr. S. S. Gajre, Dr. V. R. Saraf, Shri. T. K. Gawali, Smt. D. P. YAvalkar, Shri. D. M. Gaikwad, Shri. A. M. Dongardive, Shri. S. M. Wani, Shri. S. G. Adam, Dr. S. P. Mohani, Shri. S. O. Dahad, Dr. Parag Narkhede, General Secretary (SRC), Shri. Dipak Chaudhari, Dr. P. J. Gaidhane

Sr. No.	Date of the Meeting	MoM Link
1	10/01/2022	https://gcoej.ac.in/site/download/IQAC%20MOM_%2010%20jan%202022%20with%20attendance0.pdf
2	04/04/2022	https://gcoej.ac.in/site/download/IQAC%20MOM_%2004%20April%202022%20with%20attendance1.pdf
3	10/08/2022	https://gcoej.ac.in/site/download/IQAC%20MOM_Aug%2020220.pdf
4	17/11/2022	https://gcoej.ac.in/site/download/IQAC%20MOM_Nov%2020220.pdf
5	28/02/2023	https://gcoej.ac.in/site/download/IQAC%20MOM_Feb%2020230.pdf
6	08/05/2023	https://gcoej.ac.in/site/download/IQAC%20MOM_May%2020230.pdf
7	07/07/2023	https://gcoej.ac.in/site/download/IQAC%20MOM_July%2020230.pdf
8	01/03/2024	https://gcoej.ac.in/site/download/MOM%20order%2023%2024_Part10.pdf
9	30/08/2024	https://gcoej.ac.in/site/download/MOM%20order%2023%2024_Part20.pdf

IQAC Initiatives

1. IQAC suggested departments to analyze assessment of Course Outcomes and Program Outcomes (PO's)

2. IQAC suggested that students be encouraged to take industry-based projects and also final year students should be encouraged to pursue higher education.

3. IQAC suggested to arrange short term aptitude training for students

4. IQAC suggested that Institute shall make MoUs with Industries and other educational Institutes for collaborative programs for student and faculty development

5. IQAC suggested to include Ability enhancement courses (AEC) and Vocational skill enhancement courses (VSEC) as per NEP2020

6. IQAC suggested to recruit professor grade faculty on a contractual basis as per guideline annexure 09 of AICTE

4ঽ

IQAC Achievements

Sr. No.	Activity	Date of Completion
1	IIQA Cycle 2 Payment done	06/02/2024
2	IIQA [Institutional Information for Quality Assessment] approved	26/03/2024
3	SSS [Student Satisfaction Survey] through NAAC portal	15.7652 % students responded Survey started on 14/05/2024 Survey end on 13/06/2024
3	SSR clarifications related to extended profile deviations responded by Institute	21/05/2024 and same has been sent for verification to DVV on 05/06/2024
4	SSR clarifications related to metrics level deviations responded by Institute	Assignment Date : 15/05/2024 Last Date : 30/05/2024
5	IIQA Submitted Date:	06/02/2024
6	SSR Submitted Date:	09/05/2024
7	Publication Details Submitted Date [details provided by Inflibnet]	15/05/2024
8	Visit by the NAAC Peer Team for accreditation assessment	13/09/2024 14/09/2024
9	AQAR (Annual Quality Assurance Report) for AY 2023-24	Last updated on 08/11/2024 13:16:01

Annual Quality Assurance Report history

Sr. No.	Academic Year	Submitted Date	Reviewed on	Final Status
1	2018-19	18/02/2020	19/02/2020 01/10/2023 Resubmitted the AQAR with appropriate compliance.	Accepted on 02/01/2024
2	2019-20	23/08/2021	07/09/2021	Accepted on 07/09/2021
3	2020-21	31/12/2021	21/02/2022 07/03/2022 Re-submitted with additional information as required	Accepted on 22/12/2023
4	2021-22	02/05/2023	02/05/2023 07/02/2024 IQAC composition and MoMs complied	Accepted on 01/03/2024
5	2022-23	26/03/2024	No revision/correction	Accepted on 02/04/2024
6	2023-24	Under Progress	Under Progress	Under Progress

43

Future Plans:

1. Finalising Institutional Development Plan (IDP) with respect to 10 points in proposed NAAC framework

2. Periodic review of institutes progress and suggesting appropriate corrective action

3. Conducting student satisfaction survey

4. Using OBE platform for structured documentation

44

Government College of Engineering, Jalgaon
शासकीय अभियांत्रिकी महाविद्यालय, जळगांव

No: GCoE J/IQAC/2024/   Date:

Reference: 1. GCoE J/IQAC/2024/04 dated 18/11/2024 regarding 10th IQAC meeting
                      scheduled on 06/12/2024
                  2. NAAC Peer team report after visit during 13-09-2024 to 14-09-2024

All the HoDs are hereby informed to submit the handwritten suggestions / specific-program / policy [Space provided for the same] in the following format by 28/12/2024 for enhancement at Institute level regarding recommendations/comments given by NAAC team visited to Institute recently.

To
Dean (IQAC)

Principal
Government College of Engineering
Jalgaon

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QIM) in Criterion1)
Library has a good collection of resources but during the last year no new books were purchased:

The fresh requirement of books shall be given by all departments, in view of the courses in the NEP curriculum, in each academic year and the same can be procured by the library (New books and revised editions of existing books).

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices (QIM))

Industry visits are limited to local industry, which is a major constraint.

Scope of industrial visits shall be extended to major core sector industries, irrespective of the location (anywhere in India).

The laboratory sessions are conducted but the availability of updated experimental setup is required.

The equipment requirement for the labs has already been identified by all the departments and the detailed technical specifications (required for procurement) are being prepared by the departments.

45

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices (QIM))

Old non-working and un-repairable equipment has not been written off.

The write-off process of obsolete / un-repairable equipment is essential.
Such equipment are being identified and the list is being prepared for write-off process in E & TC department.

Weakness:
1. Acute shortage of faculty and supporting staff. Only 36 regular faculty members are available out of a sanctioned strength of 86. Rest of the faculty members are working as visiting faculty on hourly basis.

Number of regular faculty members needs to be increased on an urgent basis; but the recruitment is beyond the jurisdiction of the institute. (This is not a single isolated weakness but it is the root cause of all other weaknesses.)

2. Laboratories in all the departments need up gradation. There has been no upgrade for the last 5-6 years.

The equipment requirement for the labs has already been identified by all the departments and the detailed technical specifications (required for procurement) are being prepared by the departments.

3. Equipment maintenance is poor.

Steps are being taken in the department for improving the maintenance of equipment. Faculty and support staff members are made aware of this problem. Proper maintenance agency needs to be identified to carry out the maintenance in a convenient manner.

4. Research and development are weak. No funded research projects.

   The RADIANCE (Research And Development, Innovation, Advancement, Networking, Collaboration and Excellence) policy recently approved by Hon. BoG will help a lot to boost the research culture in the institute.
   Awareness sessions about research and funded research projects can be arranged at institute level.

46

5. Faculty is not fully conversant with Outcome Based Education as such OBE is not implemented properly.

- *The steps of "PO and PSO based curriculum" as well as including course outcomes and their relevance to Program Outcomes (POs) and Program Specific Outcomes (PSOs) in the syllabus have already been executed.*
- *In the question-papers of MSE and ESE, it is mandatory for the faculty member to state the corresponding CO and Bloom's taxonomy level.*
- *For further improvement, the awareness sessions about implementing OBE for all faculty members need to be arranged.*

Challenges:
1. Improve infrastructural facilities and student amenities. **[Please list out infrastructure and amenities that can be added]**

The existing main building is designed for 3 departments which were established in the first phase in 1996. The 2 departments which were established in second phase were also accommodated in the same building. The space has become a constraint to create other amenities such as -

- *Boys' common room,*
- *ladies' common room,*
- *seminar hall in each department,*
- *small size tutorial classrooms,*
- *rooms for technical and non-technical clubs*

2. Non availability of funds for research activities/projects.

RADIANCE (Research And Development, Innovation, Advancement, Networking, Collaboration and Excellence) policy (recently approved by Hon. BoG) will help boost the research activities / projects.

Section IV:Recommendations for Quality Enhancement of the Institution

Immediate recruitment of faculty with experience and **improve faculty profile** [Steps to be initiated]

Continuous follow-up with state government for regular faculty members

47

Implement Outcome Based Education. **[Steps to be initiated]**

- *The steps of "PO and PSO based curriculum" as well as including course outcomes and their relevance to Program Outcomes (POs) and Program Specific Outcomes (PSOs) in the syllabus have already been executed.*
- *In the question-papers of MSE and ESE, it is mandatory for the faculty member to state the corresponding CO and Bloom's taxonomy level.*
- *For further improvement, the awareness sessions about implementing OBE for all faculty members need to be arranged.*

Train the faculty in advanced pedagogy approaches. **[List of trainings and training provider]**

Training programs related to pedagogy need to be arranged.

Apply for sponsored projects from Government and non-Government agencies.

Awareness sessions about research and funded research projects can be arranged at institute level.

Initiate innovation and startup training **[List of trainings and training provider]**

Training programs related to innovation and startup need to be arranged and training agencies need to be identified.

(Dr. S. P. Mohani)
HoD (E & TC) and Dean (Academics)

Head of the Department
Department of
Electronics and Telecommunication
Engineering, Government College
of Engineering, Jalgaon

48

Government College of Engineering, Jalgaon
शासकीय अभियांत्रिकी महाविद्यालय, जळगांव

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An Autonomous Institute of Government of Maharashtra ▪ महाराष्ट्र सरकारची स्वायत्त संस्था
NH53, Jalgaon, Maharashtra, PIN 425 002 INDIA ▪ राष्ट्रीय महामार्ग ५३, जळगांव, महाराष्ट्र, पिन ४२५ ००२ भारत
+91-257-2281522 ▪ principal.gcoejalgaon@dtemaharashtra.gov.in, principal@gcoej.ac.in
Vision: Globally Accepted Engineers with Human Skills ▪ DTE Code: 5004 ▪ Website: https://www.gcoej.ac.in

No: GCoE J/IQAC/2024/ 3867

Date: 26 NOV 2024

Reference:
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I/c Principal
Government College of Engineering
Jalgaon

Copy to:- ME/ET/IN/EE/CO/CE/AS

<u>Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QIM) in Criterion1)</u>
Library has a good collection of resources but during the last year no new books were purchased:

① Additional books to be added at Institute library.
② Saperate funds need to be allocated for departmental library.

<u>Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices (QIM))</u>
Industry visits are limited to local industry, which is a major constraint.

① MoUs with industry with specified dates of visits need tobe done at Institute level.
② Guidelines for out of Jalgaon Industrial visit expenditures permissible/ nonpermissible need to be provided to departments

The laboratory sessions are conducted but the availability of updated experimental setup is required.

① Department will provide coursewise new experimental setup and equipment lists as per NEP 2020 new curriculum.

<u>Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices (QIM))</u>
Old non-working and unrepairable equipment has not been written off.

① Write-off procedure need tobe monitored and executed by store department with guidelines.

49

Pg. 01/04

Weakness:

1. Acute shortage of faculty and supporting staff. Only 36 regular faculty members are available out of a sanctioned strength of 86. Rest of the faculty members are working as visiting faculty on hourly basis.

   (i) .... Not Applicable to department ....

2. Laboratories in all the departments need upgradation. There has been no upgrade for the last 5-6 years.

   (i) Under TEQIP, new equipments added to departments process control lab.

3. Equipment maintenance is poor.

   (i)

4. Research and development are weak. No funded research projects.

   (i) Department will apply for research projects

5. Faculty is not fully conversant with Outcome Based Education as such OBE is not implemented properly.

   (i) Visiting faculty of the institute need tobe mandatorily registered for NPTEL course on -
   - Outcome based pedagogic principles for effective teaching [starts 17/02/2025, exam: 27/04/2025]

Challenges:

1. Improve infrastructural facilities and student amenities. **[Please list out infrastructure and amenities that can be added]**

   (i) Canteen for students

2. Non availability of funds for research activities/projects.

   (i) Seed fund tobe provided to faculty doing PhD.

   .... SD ....

Pg- 02/04

Section IV:Recommendations for Quality Enhancement of the Institution

Immediate recruitment of faculty with experience and **improve faculty profile** [Steps to be initiated]

......①.. Financial assitanue for Industrial trainings.

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Implement Outcome Based Education. **[Steps to be initiated]**

...①.. Enrolment of visiting faculty to OBE based NPTEL Course

...②.. Revision of existing COs and POs after completion of step ①

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....

Train the faculty in advanced pedagogy approaches. **[List of trainings and training provider]**

...① Each faculty members have to take at least one traing of MSFDA

...② Training of AICTE/DTE/IIT/NIT/ATAL may be usful to faculty members.

Apply for sponsored projects from Government and non-Government agencies.

...① Research projects proposal to DST/BIT/DRDO/ ISRO etc.

...② Research proposals to University.

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Initiate innovation and startup training **[List of trainings and training provider]**

...① By collabration with university

...② Startup traing by support of endustries.

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HoD (Sign and Stamp)

(Dr. G. M. Mahwatkar)

Govt. College of Engineering, Jalgaon

Please use page-04 for any additional information/suggestions

Pg. 03/04

No: GCoE J/IQAC/2024/ 3867   Date: 2 6 NOV 2024

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Elaie

I/c Principal
Government College of Engineering
Jalgaon

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Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QIM) in Criterion1)
Library has a good collection of resources but during the last year no new books were purchased:

Student's Accession for the library books must be increased.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices (QIM))
Industry visits are limited to local industry, which is a major constraint.

Student must be encouraged to appear for GATE and higher Studies.

The laboratory sessions are conducted but the availability of updated experimental setup is
required.

Head of Department must be held responsible for non-compliance.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices (QIM))
Old non-working and unrepairable equipment has not been written off.

A Classroom complex with hightech facilities required in the institute awarding B.Tech degrees. A.C Classrooms required.

52

Pg. 01/04

Weakness:

1. Acute shortage of faculty and supporting staff. Only 36 regular faculty members are available out of a sanctioned strength of 86. Rest of the faculty members are working as visiting faculty on hourly basis. *A regular followup required by the administration.*

2. Laboratories in all the departments need upgradation. There has been no upgrade for the last 5-6 years. *Responsibilities must be held on Head of Departments.*

3. Equipment maintenance is poor. *Responsibilities must be held on Head of Departments*

4. Research and development are weak. No funded research projects.

5. Faculty is not fully conversant with Outcome Based Education as such OBE is not implemented properly. *A upto date software is required to compute the outcomes of (CO & pb, Bloom's Taxonomy)*

Challenges:

1. Improve infrastructural facilities and student amenities. **[Please list out infrastructure and amenities that can be added]** *A upto date Auditorium, Gymnasium Hall a well fascillated play ground ground needs to be proposed on priority.*

2. Non availability of funds for research activities/projects.

53

Pg- 02/04

Section IV:Recommendations for Quality Enhancement of the Institution

Immediate recruitment of faculty with experience and **improve faculty profile** [Steps to be initiated]

A regular followup by Administration through B.O.G to the D.T.E and Government of Maharashtra needs to be Initiated on priority

Implement Outcome Based Education. **[Steps to be initiated]**

① A proper high tech soft-wares and imidiate recruitment of faculty with experience required.

Train the faculty in advanced pedagogy approaches. **[List of trainings and training provider]**

High-Tech class room complex with A-C fasulities required

Apply for sponsored projects from Government and non-Government agencies.

A full fledged faculty set up an per the cader (Professor, Associate professor, Assistant professor required)

Initiate innovation and startup training **[List of trainings and training provider]**

HoD (Sign and Stamp)

54

Please use page-04 for any additional information/suggestions

Pg. 03/04

Government College of Engineering, Jalgaon
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Vision: Globally Accepted Engineers with Human Skills ▪ DTE Code: 5004 ▪ Website: https://www.gcoej.in

Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon ▪ कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगांवशी संलग्न

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Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QIM) in Criterion1)
Library has a good collection of resources but during the last year no new books were purchased:
Requirements of books for A.Y. 2024-25 was sent to Library & is in progress.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices (QIM))
Industry visits are limited to local industry, which is a major constraint.
Since 2 yrs, our students are going to visit STPI - Software Technology Park of India which is outside the Jalgaon city.

The laboratory sessions are conducted but the availability of updated experimental setup is
required.
Required setup is available in Computer Dept. One IoT Lab is in progress.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices (QIM))
Old non-working and unrepairable equipment has not been written off.
Write-off process in progress.

Pa. 01/04

Weakness:
1. Acute shortage of faculty and supporting staff. Only 36 regular faculty members are available out of a sanctioned strength of 86. Rest of the faculty members are working as visiting faculty on hourly basis.

   Regular Faculty Recruitment is conducted by MPSC.

2. Laboratories in all the departments need upgradation. There has been no upgrade for the last 5-6 years.

   In Progress.

3. Equipment maintenance is poor.

   — NA —

4. Research and development are weak. No funded research projects.

   3 staff Members — K.R. Sarode, S.D. Cheke, T.K. Gawali are registered for Phd.

5. Faculty is not fully conversant with Outcome Based Education as such OBE is not implemented properly.

Challenges:
1. Improve infrastructural facilities and student amenities. [Please list out infrastructure and amenities that can be added]

2. Non availability of funds for research activities/projects.

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<u>Section IV:Recommendations for Quality Enhancement of the Institution</u>

Immediate recruitment of faculty with experience and **improve faculty profile** [Steps to be initiated]

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Implement Outcome Based Education. **[Steps to be initiated]**

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Train the faculty in advanced pedagogy approaches. **[List of trainings and training provider]**

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Apply for sponsored projects from Government and non-Government agencies.

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Initiate innovation and startup training **[List of trainings and training provider]**

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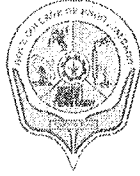
HoD (Sign and Stamp)
Head of Department
Computer Engineering Department
Govt. College of Engineering,
Jalgaon

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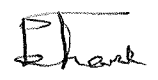Date: 03/12/2024

Report of Academic and Examination Cell (AEC)

- This is the 11th year of successful implementation of autonomy. At the end of current academic year 2024-25, 8th batch of B. Tech. under autonomy will pass out while 6 batches of M. Tech. under autonomy had already passed out.

- AEC functions under the executive control of Dean (Academics) supported by Associate Dean (Academics), Controller of Examinations (CoE), Assistant CoEs (one for pre-examination section and the other for post-examination section each), one faculty member and support staff. Principal (Chairman, Academic Council (AC) and Examination Committee (EC)) has the overall control over AEC.

- AEC looks after all academic and examination related activities of the institute in coordination with all Boards of Studies (BoS) and faculty/staff members.

- In general, in one academic year 2-3 meetings of various statutory authorities like BoS, AC and EC are conducted. The number of meetings of Departmental Faculty Board (DFB) and Academic Program Evaluation Committee (APEC) is comparatively on higher side and conducted as and when required.

- In general, most of the academic activities are executed as per the academic calendar approved by AC. Conduction of End Semester Examination, declaration of result and all the activities related to valuation and result are strictly executed as per academic calendar.

- All the faculty members and support staff strive hard at their level best not only to maintain but also to enhance academic standards of the institute.

- All the examinations for the session Winter-2023 and Summer-2024 sessions were conducted smoothly and as per the schedule declared in the academic calendar. Subsequently, results were declared in time.

- Institute started phase-wise implementation of National Education policy 2020 from academic year 2023-24. Accordingly, curriculum structure was revised in accordance with guidelines issued by Government Maharashtra vide GR no. NEP-2022/ (67/23) /TE-2. Detailed syllabi of various courses in F. Y. B. Tech. and S. Y. B. Tech. were finalized respectively in AY 2023-24 and 2024-25, after approval by AC of the institute.

58

- In order to inculcate multidisciplinary competencies among students of this institute, total 21 baskets of courses covering technical and non-technical (management, law and linguistic - foreign and local languages) domains are floated under NEP.
- Academic audit of the institute for all the aspects of curriculum, examination and related academic activities is being carried out regularly by external academic auditors. Its summary for the last three years is as follows:

Sr. No.	UG Program / Academic Year	Score in %		
		2020-21	2021-22	2022-23
1	First Year (Common)	84.3	69.7	73.0
2	Mechanical Engineering	82.2	82.7	82.3
3	Electronics and Telecommunication Engineering	72.7	83.4	81.4
4	Instrumentation Engineering	83.9	82.3	83.3
5	Electrical Engineering	81.8	82.2	81.7
6	Computer Engineering	75.5	82.7	87.1
7	Civil Engineering	73.9	78.2	78.6

(Dr. Smt. S. C. Jadhav)
Controller of Examination

(Dr. S. C. Kulkarni)
Associate Dean (Academics)

(Dr. S. P. Mohani)
Dean (Academics)

Implementation of National Education Policy (NEP-2020) in the institute

Government College of Engineering, Jalgaon

(An Autonomous Institute of Government of Maharashtra)

About Curriculum Revision

- The curriculum of all the programs has been and is formulated in tune with the guidelines of AICTE, and affiliating University.

- It is revised at regular intervals based on the feedback from all the stakeholders (viz. students, industry professionals, employers, alumni, faculty members and parents) and to keep pace with the state-of-the-art technology trends.

- The curriculum is designed so as to be in tune with the vision and mission of the institute to meet the local/ national/ regional/ global development requirements of the society.

60

1

Evolution of Program Curriculum

➤ Autonomous since 2014-15

➤ 2014-15 curriculum – Choice based curriculum - credits-184

2018-19 curriculum - credits- Industry Project Based Curriculum 172

➤ Curriculum-2018-19 (Option I and II)
- Option I- Regular Curriculum
- Option II- Industry Project Based Curriculum (1 semester is dedicated to
  industry internship/project), adjusting other courses in earlier semesters.

➤ NEP is implemented from A. Y. 2023-24 onwards.

Features of Curriculum

- Self-learning is promoted through credit transfer facilities from NPTEL/ MOOC courses.
- Audit points for Co-curricular and Extra-curricular activities are required to be earned by the students for degree eligibility.
- The curriculum involves courses which include technical report writing and seminar presentation, enhancing written and oral communication skills.
- The NEP curriculum has the courses related to Entrepreneurship, Economics, Management, Skill Development, Indian Knowledge System and Value Education.
- Experiential learning courses such as research methodology, Community Engineering Project, Internship, Major project are included in the NEP Curriculum.

61

2

Degree options available under NEP curriculum

- B. Tech. with Multidisciplinary Minor – 172 Credits
- B. Tech. Honors with Multidisciplinary Minor – 190 Credits
- B. Tech. Honors with research and Multidisciplinary Minor – 190 Credits
- B. Tech. with Double Minor (i.e. Multidisciplinary Minor & Specialization Minor) – 190 Credits

For Multidisciplinary Minor, 22 MDM baskets have been offered by the institute and 28 Specialization Minor baskets have been offered. The MDMs are offered as per first choice of the students.

Components of the 2018-19 Curriculum

Curriculum consists of the following components:

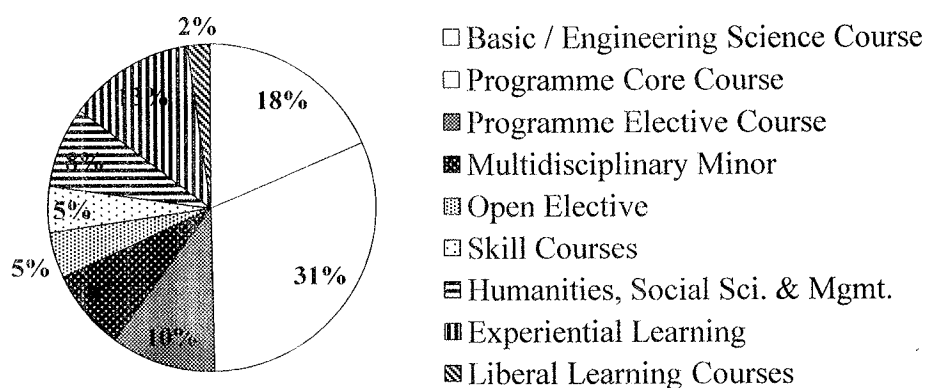**Credit Distribution in Percentage**
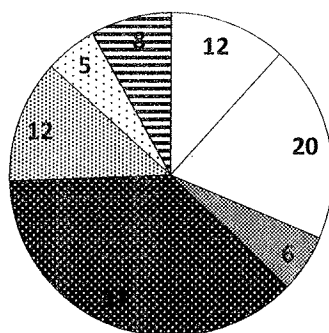
- ☐ Basic Sciences
- ☐ Basic Engineering
- ▦ Humanities & Social Sciences
- ▨ Professional Core courses
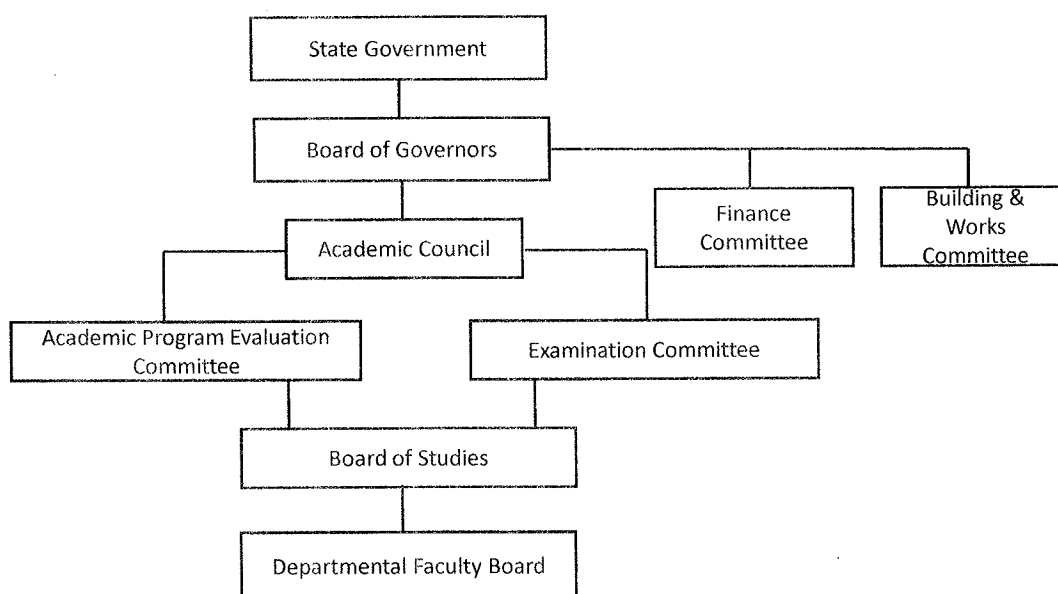- ▤ Professional Electives
- ☐ Open Electives
- ▤ Project & Seminar

6 2—

Components of the 2023-24 NEP Curriculum

Curriculum consists of the following components:

Credit Distribution in Percentage

- □ Basic / Engineering Science Course
- □ Programme Core Course
- ▨ Programme Elective Course
- ▩ Multidisciplinary Minor
- ▦ Open Elective
- ▤ Skill Courses
- ▤ Humanities, Social Sci. & Mgmt.
- ▥ Experiential Learning
- ▧ Liberal Learning Courses

Pie chart values: 2%, 18%, 31%, 10%, 5%, 5%, 8%

Authorities of the Institute

```
              State Government
                    |
            Board of Governors ──────────────┬──────────────┐
                    |                         |              |
                    |                   Finance         Building &
            Academic Council           Committee         Works
              |         |                              Committee
              |         |
Academic Program      Examination Committee
Evaluation Committee
              |              |
           Board of Studies
                  |
        Departmental Faculty Board
```

63

Academic Authorities of the Institute

- **Academic Council (AC):** Framing the rules of overall academics and degree award eligibility
- **Examination Committee (EC):** Framing the rules of examination and continuous improvement in examination system
- **Academic Program Evaluation Committee (APEC):** Maintaining uniformity in various programs
- **Board of Studies (BoS):** Deciding curriculum structure and detailed syllabus (for respective program)
- **Departmental Faculty Board (DFB):** Preparing draft structure and syllabus through several iterations

Evaluation Scheme of Theory and Lab Courses

- Mid Semester Examination (MSE) -   Theory Course (30 Marks)

- In Semester Assessment (ISA)-   Theory Course (10 Marks)

- Internal Continuous Assessment (ICA)-   Lab Course (25 Marks)

- End Semester Examination (ESE)-   Theory Course (60 Marks)

- End Semester Examination (ESE)-   Lab Course (25 Marks)

64

5

Courses focusing on Employability, Entrepreneurship, Skill Development, Gender etc.

Sr. No.	Name of program	No. of courses offered
1	M. Tech (E and Tc)	14
2	First year B. Tech. (Common)	7
3	B. Tech. (Mechanical)	27
4	B. Tech. (E and Tc)	27
5	B. Tech. (Instrumentation)	27
6	B. Tech. (Electrical)	28
7	B. Tech. (Computer)	35
8	B. Tech. (Civil)	33
Total		198

Courses focussing on Professional Ethics, Gender, Human Values, Environment, Sustainability in the Curriculum

Sr. No.	Name of Program	Number of courses focusing on		
		Human values & Professional Ethics, etc.	Environment & Sustainability	Gender
1	First Year B. Tech. (Common)	3	1	1
2	B. Tech. (Mechanical Engineering)	5	5	6
3	B. Tech. (Electronics and Telecommunication Engineering)	5	5	6
4	B. Tech. (Instrumentation Engineering)	6	5	7
5	B. Tech. (Electrical Engineering)	5	5	6
6	B. Tech. (Computer Engineering)	6	5	6
7	B. Tech. (Civil Engineering)	6	5	6
Total		36	31	38

65

Number of MOOC courses such as NPTEL completed by the students of the institute during the last five years

Sr. No.	Academic Year	No. of students completing NPTEL Course
1	2018-19	41
2	2019-20	214
3	2020-21	23
4	2021-22	23
5	2022-23	79
Total		380

Number of NPTEL courses completed by the students = 77

Feedback and its Role in Revision of Curriculum

- The feedback from all the stakeholders (viz. students, industry professionals, employers, alumni, faculty members and parents) is collected and this feedback is taken into account in the process of revision of curriculum and/or some suggestions can be put forth in the next Academic Council meeting.

- Feedback is collected for all aspects of Academics viz. Teaching-Learning process (for course-teachers), Course Outcomes (COs), Program Outcomes (POs), Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs), Exit Survey from the corresponding stake-holders.

- Feedback analysis is done and needful action is taken in relation to curriculum design and implementation.

66

Thank You !

67

Government College of Engineering, Jalgaon
(An Autonomous Institute of Govt. of Maharashtra)

CURRICULUM STRUCTURE UNDER NEP (EFFECTIVE FROM A.Y. 2023-24)

Component-wise and Semester-wise Credit distribution structure for the B. Tech. Program

	Semester	I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	08	08	---	---	---	---	---	---	16
Engineering Science Course		08	04	---	---	---	---	---	---	12
Programme Core Course (PCC)	Program Courses	---	04	10	10	12	10	04	04	54
Programme Elective Course (PEC)		---	---	---	---	04	08	02	06	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	---	---	02	02	04	02	02	02	14
Open Elective (OE) Other than a particular program		---	---	04	02	02	---	---	---	08
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	02	02	---	02	---	02	---	---	08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities, Social Science and Management (HSSM)	02	---	---	02	---	---	---	---	04
Entrepreneurship/Economics / Management Courses		---	---	02	02	---	---	---	---	04
Indian Knowledge System (IKS)		---	02	---	---	---	---	---	---	02
ValueEducationCourse (VEC)		---	---	02	02	---	---	---	---	04
Research Methodology	Experiential Learning Courses	---	---	---	---	---	---	---	04	04
Comm. Engg. Project (CEP) / Field Project(FP)		---	---	02	---	---	---	---	---	02
Project		---	---	---	---	---	---	---	04	04
Internship/OJT		---	---	---	---	---	---	12	---	12
Co-curricular Courses(CC)	Liberal Learning Courses	02	02	---	---	---	---	---	---	04
Total Credits		**22**	**22**	**22**	**22**	**22**	**22**	**20**	**20**	**172**

Government College of Engineering, Jalgaon
(An Autonomous Institute of Govt. of Maharashtra)
List of Baskets for MDM/Specialization Minor//Honors/Honors-Research
(under NEP Curriculum)

Colour

Yellow	Departmental/Institute MDM of 14 credits
Blue	Departmental/Institute Specialization minor of 18 credits
Green	Departmental Honors of 18 credits
Yellow	Departmental Honors with Research of 18 credits

ME

List of Multidisciplinary Minor (MDM) Courses offered by Department of Mechanical Engineering (For Students of departments other than Mechanical Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	MEM210N Manufacturing Technology	2
2	IV	MDM-II	MEM262N Theory of Machines	2
3	V	MDM-III	MEM363N Fluid Mechancis	4
4	VI	MDM-IV	MEM313N Introduction to IC Engines	2
5	VII	MDM-V	MEM407N Introduction to Automobile Engineering	2
6	VIII	MDM-VI	MEM461N Introduction to Refrigeration and Airconditioning	2
			Total Credits for MDM Courses	**14**

List of Specialization Minor Courses offered by Department of Mechanical Engineering (For Students of departments other than Mechanical Engineering; who have not opted for Mechanical track in MDM) - Applicable only for Double Minor Degree

Sl. No.	Semester		Course Code and Name of Course	Credits
1	III	MDM-I	MEM210N Manufacturing Technology	2
2	IV	MDM-II	MEM262N Theory of Machines	2
3	V	MDM-III	MEM363N Fluid Mechancis	4
4	VI	MDM-IV	MEM313N Introduction to IC Engines	2
5	VII	MDM-V	MEM407N Introduction to Automobile Engineering	2
6	VIII	MDM-VI	MEM461N Introduction to Refrigeration and Airconditioning	2
7	VIII	MDM-VI	MEM462N Introduction to Vibrations Engineering	4
			Total Specialization Minor Credits	**18**

List of additional courses for B. Tech. Honours Degree offered by Department of Mechanical Engineering (For Students of Department of Mechanical Engineering) - Applicable only for Honours Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	ME311N Advanced Mechanisms	3
2	V	ME312N Advanced Mechanisms Lab	1
3	VI	ME361N Stress Analysis	3
4	VII	ME405N Advanced Mechanical Design (Online Mode)	4
5	VII	ME406N Smart Materials and Sensors (Online Mode)	3
6	VIII	ME459N Vibrations Engineering	3
7	VIII	ME460N Vibrations Engineering Lab	1
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. multidisciplinary minor and Honors with Research Degree offered by Department of Mechanical Engineering (For Students of Department of Mechanical Engineering) - Applicable only for Honours with Research Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	ME311N Advanced Mechanisms	3
2	V	ME312N Advanced Mechanisms Lab	1
3	VI	ME361N Stress Analysis	3
4	VII	ME407N Dissertation Specific Course (Online)	3
5	VII	ME408N Dissertation Phase-1	4
6	VIII	ME461N Dissertation Phase - 2	4
		Total Credits for Honours with Research Degree	**18**

69

1

Robotics Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	RB201N	Embedded Control Systems	2
2	IV	RB202N	Robot Kinematics and Dynamics	2
3	V	RB301N	Autonomous Robotics and Telecherics	4
4	VI	RB302N	Advanced Robotics Programming	2
5	VII	RB401N	Experimental Robotics (online)	2
6	VIII	RB402N	Control of Robotic Systems	2
			Total Credits for MDM Courses	14

Robotics Specialization Minor Courses offered (For Students who have not opted for Robotics Institute Level MDM - Applicable only for Double Minor Degree)

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	RB201N	Embedded Control Systems	2
2	IV	RB202N	Robot Kinematics and Dynamics	2
3	V	RB301N	Autonomous Robotics and Telecherics	4
4	VI	RB302N	Advanced Robotics Programming	2
5	VII	RB401N	Experimental Robotics (online)	2
6	VIII	RB402N	Control of Robotic Systems	2
7	VIII	RB404N	Project related with robotics	4
				18

Product Lifecycle Management Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	PL201N	PLM Fundamentals	2
2	IV	PL202N	New Product Design	2
3	V	PL301N	Data Management	4
4	VI	PL302N	PLM Advanced Concepts	2
5	VII	PL401N	Rapid Manufacturing (Online)	2
6	VIII	PL402N	Supply Chain Management	2
			Total Credits for MDM Courses	14

Product Lifecycle Management Specialization Minor Courses offered (For Students who have not opted for Product Lifecycle Management Institute Level MDM - Applicable only for Double Minor Degree)

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	PL201N	PLM Fundamentals	2
2	IV	PL202N	New Product Design	2
3	V	PL301N	Data Management	4
4	VI	PL302N	PLM Advanced Concepts	2
5	VII	PL401N	Rapid Manufacturing (Online)	2
6	VIII	PL402N	Supply Chain Management	2
7	VIII	PL404N	Project Management for PLM	4
				18

ET

List of Multidisciplinary Minor (MDM) Courses offered by Department of Electronics and Telecommunication (E&Tc) Engineering (For Students of departments other than E&Tc Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	ETM205N Electronic Components and Devices	2
2	IV	MDM-II	ETM255N Electronic Measurement Techniques	2
3	V	MDM-III	ETM306N Principles of Analog and Digital Communication	4
4	VI	MDM-IV	ETM354N Integrated Circuits and Applications	2
5	VII	MDM-V	ETM403N Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (NPTEL Course)	2
6	VIII	MDM-VI	ETM453N Control Systems	2
			Total Credits for MDM Courses	14

List of Specialization Minor Courses offered by Department of Electronics and Telecommunication (E&Tc) Engineering (For Students of departments other than E&Tc Engineering who have not opted for E&Tc track in MDM - Applicable only for Double Minor Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	III	ETM205N Electronic Components and Devices	2

70

2

	IV	ETM255N Electronic Measurement Techniques	2
3	V	ETM306N Principles of Analog and Digital Communication	4
4	VI	ETM354N Integrated Circuits and Applications	2
5	VI	ETM364N Optical Fiber Communications	2
6	VII	ETM403N Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (NPTEL Course)	2
7	VIII	ETM453N Control Systems	2
8	VIII	ETM461N Principles of Satellite Communication	2
		Total Specialization Minor Credits	**18**

List of additional courses for B. Tech. Honours Degree offered by Department of Electronics and Telecommunication (E&Tc) Engineering (For Students of Department of E&Tc Engineering) - Applicable only for Honours Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	ET311N Biomedical Engineering	3
2	V	ET312N Biomedical Engineering Lab	1
3	VI	ET363N Nanoelectronics	3
4	VII	ET411N Real Time Digital Signal Processing (12 Weeks NPTEL Course)	4
5	VII	ET412N Principles and Techniques of Modern Radar Systems (NPTEL Course)	3
6	VIII	ET460N Networking in IoT	4
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. multidisciplinary minor and Honors with Research Degree offered by Department of Electronics and Telecommunication (E&Tc) Engineering (For Students of Department of E&Tc Engineering) - Applicable only for Honours with Research Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	ET311N Biomedical Engineering	3
2	V	ET312N Biomedical Engineering Lab	1
3	VI	ET411N Real Time Digital Signal Processing (12 Weeks NPTEL Course)	4
4	VII	ET413N Dissertation Specific Course (Online)	3
5	VII	ET414N Disseration Phase-1	3
6	VIII	ET461N Disseration Phase - 2	4
		Total Credits for Honours with Research Degree	**18**

Semiconductor Manufacturing Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	SM201N	Introduction to VLSI lifecycle	2
2	IV	SM202N	Introduction to VLSI Fabrication	2
3	V	SM301N	Semiconductor Packaging and Testing	4
4	VI	SM302N	Semiconductor Technology Equipment Maintenance	2
5	VII	SM401N	Clean Room Technologies	2
6	VIII	SM402N	Safety Protocols for IC Foundry	2
			Total Credits for MDM Courses	**14**

Semiconductor Manufacturing Specialization Minor Courses offered (For Students who have not opted for Semiconductor Manufacturing Institute Level MDM - Applicable only for Double Minor Degree)

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	SM201N	Introduction to VLSI lifecycle	2
2	IV	SM202N	Introduction to VLSI Fabrication	2
3	V	SM301N	Semiconductor Packaging and Testing	4
4	VI	SM302N	Semiconductor Technology Equipment Maintenance	2
5	VII	SM401N	Clean Room Technologies	2
6	VIII	SM402N	Safety Protocols for IC Foundry	2
7	VIII	SM404N	Electronic System Assembly	4
				18

71

3

List of Multidisciplinary Minor (MDM) Courses offered by Department of Instrumentation Engineering (For Students of departments other than Instrumentation Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	INM205N Transducers	2
2	IV	MDM-II	INM255N Virtual Instrumentation	2
3	V	MDM-III	INM306N Industrial Automation	4
4	VI	MDM-IV	INM354N Opto Electronic Instrumentation	2
5	VII	MDM-V	INM403N Instrumentation and Process Control in Food Industry (NPTEL Course)	2
6	VIII	MDM-VI	INM453N Instrumentation System Design	2
			Total Credits for MDM Courses	**14**

List of Specialization Minor Courses offered by Department of Instrumentation Engineering (For Students of departments other than Instrumentation Engineering, who have not opted for Instrumentation track in MDM or equivalent Open Elective) - Applicable only for Double Minor Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	III	INM205N Transducers	3
2	IV	INM255N Electronics Measurement and Instrumentation	2
3	V	INM306N Industrial Automation	4
4	VI	INM354N Opto Electronic Instrumentation	3
5	VII	INM403N Instrumentation and Process Control in Food Industry (NPTEL Course)	3
6	VIII	INM453N Advanced Control Systems	3
		Total Specialization Minor Credits	**18**

List of additional courses for B. Tech. Honours Degree offered by Department of Instrumentation Engineering (For Students of Department of Instrumentation Engineering) - Applicable only for Honours Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	IN311N Control System for Electrical Vehicle	3
2	V	IN312N Control System for Electrical Vehicle Lab	1
3	VI	IN363N Control of Robotic System	3
4	VII	IN411N Air Pollution and Control (12 Weeks NPTEL Course) (12 Weeks NPTEL Course	4
5	VII	IN412N Instrumentation and Process Control in Food Industry (NPTEL Course 8 Week)	3
6	VIII	IN460N Modelling and Simulation	4
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. multidisciplinary minor and Honors with Research Degree offered by Department of Instrumentation Engineering (For Students of Department of E&Tc Engineering) - Applicable only for Honours with Research Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	VII	IN413N Dissertation Specific Course (Online)	3
2	VII	IN414N Disseration Phase-1	6
3	VIII	IN461N Dissertation Phase - 2	9
		Total Credits for Honours with Research Degree	**18**

Industry 4.0 Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	IFM201N	Fundamentals of IoT and Smart Instrumentation Techniques	2
2	IV	IFM202N	Industrial Internet of Things and Applications	2
3	V	IFM301N	Fundamentals of Industry 4.0	4
4	VI	IFM302N	Artificial Inteligence: Principles and Techniques	2
5	VII	IFM401N	Digital Transfromation in Industry 4.0(NPTEL course/workshop)	2
6	VIII	IFM402N	Advanced Industrial Automation and Applications	2
			Total Credits for MDM Courses	**14**

72

4

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	IFM201N	Fundamentals of IoT and Smart Instrumentation Techniques	2
2	IV	IFM202N	Industrial Internet of Things and Applications	2
3	V	IFM301N	Fundamentals of Industry 4.0	4
4	VI	IFM302N	Artificial Inteligence: Principles and Techniques	2
5	VII	IFM401N	Digital Transfromation in Industry 4.0(NPTEL course/workshop)	2
6	VIII	IFM402N	Advanced Industrial Automation and Applications	2
7	VIII	IFM404N	Advanced Manufacturing and Automation	4
				18

Agriculture 4.0 Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	AFM101	Agriculture 4.0: The Future of Farming Technology	2
2	IV	AFM102	Smart Sensors in Agriculture 4.0	2
3	V	AFM103	Agriculture Internet of Things and Applications	4
4	VI	AFM104	Remote Sensing Technologies	2
5	VII	AFM105	Computing for Agriculture 4.0(NPTEL course/workshop)	2
6	VIII	AFM106	Artificial Inteligence in Smart Farming	2
			Total Credits for MDM Courses	14

Agriculture 4.0 Specialization Minor Courses offered [For Students who have not opted for Agriculture 4.0 Institute Level MDM - Applicable only for Double Minor Degree]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	AFM101	Agriculture 4.0: The Future of Farming Technology	2
2	IV	AFM102	Smart Sensors in Agriculture 4.0	2
3	V	AFM103	Agriculture Internet of Things and Applications	4
4	VI	AFM104	Remote Sensing Technologies	2
5	VII	AFM105	Computing for Agriculture 4.0 (NPTEL course/workshop)	2
6	VIII	AFM106	Artificial Inteligence in Smart Farming	2
7	VIII	AFM107	Agriculture Crop Managment	4
				18

EE

List of Multidisciplinary Minor (MDM) Courses offered by Department of Electrical Engineering Engineering (For Students of departments other than Electrical Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	EEM205N:DC Machines & Transformer	2
2	IV	MDM-II	EEM255N:Power system-I	2
3	V	MDM-III	EEM306N:AC Machines	4
4	VI	MDM-IV	EEM354N:Power system-II	2
5	VII	MDM-V	EEM403N:Switchgear & Protection	2
6	VIII	MDM-VI	EEM453N:Illumination Engineering	2
			Total Credits for MDM Courses	14

List of Specialization Minor Courses offered by Department of Electrical Engineering Engineering (For Students of departments other than Electrical Engineering; who have not opted for EE track in MDM - Applicable only for Double Minor Degree)

Sl. No.	Semester	Course Code and Name of Course	Credits
1	III	EEM205N:DC Machines & Transformer	2
2	IV	EEM255N:Power system-I	2
3	V	EEM306N:AC Machines	4
4	VI	EEM354N:Power system-II	2
5	VII	EEM403N:Switchgear & Protection	2
6	VIII	EEM453N:Illumination Engineering	2
7	VIII	EEM457N:Renewable Energy Technology	4
		Total Specialization Minor Credits	18

73

5

List of additional courses for B. Tech. Honours Degree offered by Department of Electrical Engineering (For Students of Electrical Engineering Department) - Applicable only for Honours Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	EE310N: Special Machines	3
2	VI	EE360N: Computer Aided Power System Analysis	3
3	VI	EE361N: Electric Machine Modeling and Analysis	3
4	VII	EE405N: Modern Power Electronics (NPTEL COURSE 8 week/Online Mode)	3
5	VII	EE406N: Modern Control System (NPTEL COURSE 8 week/Online Mode)	3
6	VIII	EE457N: Modern Protective Relaying	3
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. multidisciplinary minor and Honors with Research Degree offered by Department of Electrical Engineering (For Students of Department of Electrical Engineering) - Applicable only for Honours with Research Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	VII	EE407N: Optimization Techniques (NPTEL COURSE 8 week/ Online Mode)	4
2	VII	EE408N: Power Quality (NPTEL COURSE 8 week/ Online Mode)	3
3	VII	EE409N: Research Project Phase-I	2
4	VIII	EE458N: Circuit Simulation Lab	1
5	VIII	EE459N: Research Project Phase-II	8
		Total Credits for Honours with Research Degree	**18**

E-Vehicle Technology Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	EV201N	Fundamentals of Electric Vehicles and Simulations	2
2	IV	EV202N	Battery and Charging System	2
3	V	EV301N	Automobile Engineeringing for Electric Vehicles	4
4	VI	EV302N	Electrical Machines and Modelling	2
5	VII	EV401N	Embedded System for EV	2
6	VIII	EV402N	Emerging EV Technologies	2
			Total Credits for MDM Courses	**14**

E-Vehicle Technology Specialization Minor Courses offered (For Students who have not opted for E-Vehicle Technology Institute Level MDM - Applicable only for Double Minor Degree)

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	EV201N	Fundamentals of Electric Vehicles and Simulations	2
2	IV	EV202N	Battery and Charging System	2
3	V	EV301N	Automobile Engineeringing for Electric Vehicles	4
4	VI	EV302N	Electrical Machines and Modelling	2
5	VII	EV401N	Embedded System for EV	2
6	VIII	EV402N	Emerging EV Technologies	2
7	VIII	EV404N	EV Project	4
				18

List of Multidisciplinary Minor (MDM) Track-I (AI & ML) Courses offered by Department of Computer Engineering (For Students of departments other than Computer Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	AIM205N Data Mining	2
2	IV	MDM-II	AIM255N Fundamentals of Artificial Intelligence	2
3	V	MDM-III	AIM306N Machine Learning	4
4	VI	MDM-IV	AIM354N Data Visualisation	2
5	VII	MDM-V	AIM403N Deep Learning(NPTEL Course)	2
6	VIII	MDM-VI	AIM453N Computer Vision	2
			Total Credits for MDM Courses	**14**

74

6

List of Multidisciplinary Minor (MDM) Track-II (Computer Programming) Courses offered by Department of Computer Engineering (For Students of departments other than Computer Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	CPM205N Object Oriented Programming Using C++	2
2	IV	MDM-II	CPM255N Fundamentals of Data Structures	2
3	V	MDM-III	CPM306N Python Programming	4
4	VI	MDM-IV	CPM354N Database Management System	2
5	VII	MDM-V	CPM403N Cloud Computing (NPTEL Course)	2
6	VIII	MDM-VI	CPM453N Full Stack Development	2
			Total Credits for MDM Courses	**14**

List of Specialization Minor Courses offered by Department of Computer Engineering (For Students of departments other than Computer Engineering; who have not opted for Computer Engineering track-I(AI &ML) in MDM) - Applicable only for Double Minor Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	III	AIM205N Data Mining	2
2	IV	AIM255N Fundamentals of Artificial Intelligence	2
3	V	AIM306N Machine Learning	4
4	VI	AIM354N Data Visualisation	2
5	VI	AIM364N Natural Language Processing	2
6	VII	AIM403N Deep Learning(NPTEL Course)	2
7	VIII	AIM453N Computer Vision	2
8	VIII	AIM461N Applications of AI and ML	2
		Total Specialization Minor Credits	**18**

List of Specialization Minor Courses offered by Department of Computer Engineering (For Students of departments other than Computer Engineering; who have not opted for Computer Engineering track-II(Computer Programming) in MDM) - Applicable only for Double Minor Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	III	CPM205N Object Oriented Programming Using C++	2
2	IV	CPM255N Fundamentals of Data Structures	2
3	V	CPM306N Python Programming	4
4	VI	CPM354N Database Management System	2
5	VI	CPM364N Web Development	2
6	VII	CPM403N Cloud Computing (NPTEL Course)	2
7	VIII	CPM453N Full Stack Development	2
8	VIII	CPM461N DevOps	2
		Total Specialization Minor Credits	**18**

List of additional courses for B. Tech. Honours Degree offered by Department of Computer Engineering (For Students of Department of Computer Engineering) - Applicable only for Honours Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	CO311N UI Design using React and Angular	3
2	V	CO312N UI Design using React and Angular Lab	1
3	VI	CO363N Full Stack Development using Java	3
4	VII	CO411N Cloud Computing (12 Weeks NPTEL Course)	4
5	VII	CO412N Cyber Security(NPTEL Course)	3
6	VIII	CO460N DevOps	4
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. multidisciplinary minor and Honors with Research Degree offered by Department of Computer Engineering (For Students of Department of Computer Engineering) - Applicable only for Honours with Research Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	COR311N Fundamentals of Research and Ethics	3
2	V	COR312N Fundamentals of Research and Ethics Lab	1
3	VI	COR371N Research/Thesis Writing related Subjects (12 Weeks NPTEL Course)	4
4	VII	COR413N Dissertation Specific Course (Online)	3
5	VII	COR414N Disseration Phase-1	3
6	VIII	COR461N Dissertation Phase - 2	4
		Total Credits for Honours with Research Degree	**18**

Drone Technology Institute Level MDM Courses List [Applicable to all departments]

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	DTM205N	Drone Technology and Systems	2
2	IV	DTM255N	Drone Electronics	2

75

7

3	V	DTM306N	Drone Programming and Automations	4
4	VI	DTM354N	GIS and Remote Sensing	2
5	VII	DTM403N	Aerospace Engineering (NPTEL)	2
6	VIII	DTM453N	Drone Navigation and Autonomous Flight	2
			Total Credits for MDM Courses	**14**

Drone Technology Specialization Minor Courses offered (For Students who have not opted for Drone Technology Institute Level MDM - Applicable only for Double Minor Degree)

Sl. No.	Semester	Course Code	Name of Course	Credits
1	III	DTM205N	Drone Technology and Systems	2
2	IV	DTM255N	Drone Electronics	2
3	V	DTM306N	Drone Programming and Automations	4
4	VI	DTM354N	GIS and Remote Sensing	2
5	VI	DTM364N	Thermal Imaging and Aerodynamics	2
6	VII	DTM403N	Aerospace Engineering (NPTEL)	2
7	VIII	DTM453N	Drone Navigation and Autonomous Flight	2
8	VIII	DTM461N	UAV design and Simulation	2
				18

Data Science and Cybersecurity Institute Level MDM Courses List [Applicable to all departments including Computer Engineering]

Sl. No.	Semester	Course Code	Course Code and Name of Course	Credits
1	III	DCM205N	Data Science and Tools	2
2	IV	DCM255N	Cyber Laws and Cyber Security Principles	2
3	V	DCM306N	Data Analytics and Visualisation	4
4	VI	DCM354N	Cryptography and Application	2
5	VII	DCM403N	Block Chain and its applications (NPTEL Course)	2
6	VIII	DCM453N	Digital Forensics	2
			Total Credits for MDM Courses	**14**

List of Specialization Minor Courses offered by Department of Computer Engineering (For Students of departments other than Computer Engineering; who have not opted for Computer Engineering track (Data Science and Cybersecurity) in MDM) - Applicable only for Double Minor Degree

Sl. No.	Semester	Course Code	Course Code and Name of Course	Credits
1	III	DCM205N	Data Science and Tools	2
2	IV	DCM255N	Cyber Laws and Cyber Security Principles	2
3	V	DCM306N	Data Analytics and Visualisation	4
4	VI	DCM354N	Cryptography and Application	2
0	VI	DCM364N	Information Security	2
6	VII	DCM403N	Block Chain and its applications (NPTEL Course)	2
7	VIII	DCM453N	Digital Forensics	2
8	VIII	DCM461N	Cybersecurity Social Engineering	2
			Total Credits for MDM Courses	**18**

CE

List of Multidisciplinary Minor (MDM) Courses offered by Department of Civil Engineering (For Students of departments other than Civil Engineering)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	CEM202N Building Materials	2
2	IV	MDM-II	CEM 255N Environmental Engg	2
3	V	MDM-III	CEM 305N Concrete Technology	4
4	VI	MDM-IV	CEM 356N Hydrology and Irrigation Engg	2
5	VII	MDM-V	CEM404N Transportation Engg	2
6	VIII	MDM-VI	CEM454N Quality and Safety in construction	2
			Total Credits for MDM Courses	**14**

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List of Multidisciplinary Minor (MDM) Courses offered by Department of Civil Engineering At Institute Level)

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	CEM209N Geology	2
2	IV	MDM-II	CEM259N Smart Cities Planning and Management	2
3	V	MDM-III	CEM313N Remote Sensing and GIS	4
4	VI	MDM-IV	CEM366N Green Buildings and Energy Conservation	2
5	VII	MDM-V	CEM413N Disaster Management	2
6	VIII	MDM-VI	CEM463N Environmental Law	2
			Total Credits for MDM Courses	**14**

List of Specialization Minor Courses offered by Department of Civil Engineering (For Students of departments other than Civil Engineering; who have not opted for Civil track in MDM) - Applicable only for Double Minor Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	III	CEM202N Building Materials	2
2	IV	CEM 255N Environmental Engg	2
3	V	CEM 305N Concrete Technology	4
4	VI	CEM 356N Hydrology and Irrigation Engg	2
5	VII	CEM404N Transportation Engg	2
6	VIII	CEM454N Quality and Safety in construction	2
7	VIII	CEM458N Estimation, Contract and Valuation	4
		Total Specialization Minor Credits	**18**

List of additional courses for B. Tech. Honours Degree offered by Department of Civil Engineering (For Students of Department of Civil Engineering) - Honor in Structural Engineering

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	CE 311N Advanced Concrete Technology	3
2	VI	CE 362N Theory of Elasticity and Plasticity	3
3	VI	CE 363N Finite Element Analysis	3
4	VII	CE 406N Theory of Plates and Shells	3
5	VII	CE407N Rehabilitation and Retrofitting of structure	3
6	VIII	CE 459N Design of Earthquake Resistance structure	3
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. Honours Degree offered by Department of Civil Engineering (For Students of Department of Civil Engineering) - Honor in Water Resource Engineering

Sl. No.	Semester	Course Code and Name of Course	Credits
1	V	CE312N Groundwater Hydrology	3
2	VI	CE364N Engineering Hydrology and Hydrologic Systems	3
3	VI	CE365N Land and Water Management	3
4	VII	CE408N Advanced Fluid Mechanics	3
5	VII	CE409N Channel and River Hydraulic	3
6	VIII	CE460N Hydraulic Structures	3
		Total Credits for Honours Degree	**18**

List of additional courses for B. Tech. multidisciplinary minor and Honors with Research Degree offered by Department of Civil Engineering (For Students of Department of Civil Engineering) - Applicable only for Honours with Research Degree

Sl. No.	Semester	Course Code and Name of Course	Credits
1	VII	CE410N Emerging Research Topics in Civil Engg	3
2	VII	CE411N Emerging Research Topics in Civil Engg Lab	1
3	VII	CE412N Research Project (Synopsis) Phase-I	4
4	VIII	CE461N Research Specific Core Course-I	3
5	VIII	CE462N Research Project	7
		Total Credits for Honours with Research Degree	**18**

77

List of Multidisciplinary Minor (MDM) Courses offered by Science & Humanities Department - MANAGEMENT [for all branches]

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	SHM201N - Management Science	2
2	IV	MDM-II	SHM202N - Organizational Behaviour	2
3	V	MDM-III	SHM301N - Accounting, Financial & Marketing Management	4
4	VI	MDM-IV	SHM302N - Human Resource Management	2
5	VII	MDM-V	SHM401N - Corporate Social Responsibility	2
6	VIII	MDM-VI	SHM402N - Operations Management	2
			Total Credits for MDM Courses	14

List of Multidisciplinary Minor (MDM) Courses offered by Science & Humanities Department - ECONOMICS [for all branches]

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	SHM203N - Introductory Micro Economics	2
2	IV	MDM-II	SHM204N - Introductory Macro Economics	2
3	V	MDM-III	SHM303N - Public Finance & Financial Economics	4
4	VI	MDM-IV	SHM304N - Environmental Economics	2
5	VII	MDM-V	SHM403N - Agricultural Economics	2
6	VIII	MDM-VI	SHM404N - International Economics	2
			Total Credits for MDM Courses	14

List of Multidisciplinary Minor (MDM) Courses offered by Science & Humanities Department - Legal Aspects in Technology [for all branches]

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	SHM205N-Constitutional Law of India	2
2	IV	MDM-II	SHM206N-Human Rights Law	2
3	V	MDM-III	SHM305N-Intellectual SHM308N-Property Rights	4
4	VI	MDM-IV	SHM306N-Cyber Laws	2
5	VII	MDM-V	SHM405N-Company Law	2
6	VIII	MDM-VI	SHM406N-Indian Contract Act	2
			Total Credits for MDM Courses	14

List of Multidisciplinary Minor (MDM) Courses offered by Science & Humanities Department - German Language [for all branches]

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	SHM207N - German Language – A1 Level	2
2	IV	MDM-II	SHM208N - German Language – A1.1 Level	2
3	V	MDM-III	SHM307N - German Language – A2 Level	4
4	VI	MDM-IV	SHM308N - German Language – B1.1 Level	2
5	VII	MDM-V	SHM407N - German Language – B1.2 Level	2
6	VIII	MDM-VI	SHM408N - German Language – B2 Level	2
			Total Credits for MDM Courses	14

List of Multidisciplinary Minor (MDM) Courses offered by Science & Humanities Department -Japaneese language [for all branches]

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	SHM205N - Japaneese Language – A1 Level	2
2	IV	MDM-II	SHM206N - Japaneese Language – A1.1 Level	2
3	V	MDM-III	SHM305N - Japaneese Language – A2 Level	4
4	VI	MDM-IV	SHM306N - Japaneese Language – B1.1 Level	2
5	VII	MDM-V	SHM405N - Japaneese Language – B1.2 Level	2
6	VIII	MDM-VI	SHM406N - Japaneese Language – B2 Level	2
			Total Credits for MDM Courses	14

List of Multidisciplinary Minor (MDM) Courses offered by Science & Humanities Department - अहिराणी भाषेचा साहित्यिक अभ्यास [for all branches]

Sl. No.	Semester	MDM Level	Course Code and Name of Course	Credits
1	III	MDM-I	SHM209N अहिराणी : पूर्वपरंपरा	2
2	IV	MDM-II	SHM210N अहिराणी : भाषा परिचय	2
3	V	MDM-III	SHM309N अहिराणी : व्याकरण परिचय	4
4	VI	MDM-IV	SHM310N अहिराणी : ललित साहित्य	2
5	VII	MDM-V	SHM409N अहिराणी : समाजभाषा वैज्ञानिक अभ्यास	2
6	VIII	MDM-VI	SHM410N अहिराणी : लोकवाङ्मयाचा अभ्यास	2
			Total Credits for MDM Courses	14

10

List of Open Elective Courses

ME

Open Elective (OE) Courses offered by Mechanical Department (For Students of departments other than Mechanical Engineering)

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
1	III	OE-I	ME207X.Total Quality Management	4
2			ME207Y. Reliability Engineering	
3	IV	OE-II	ME257X.Introduction to Robotics	2
4			ME257Y.Hybrid Vechiles	
5	V	OE-III	ME310X.Power Station Engineering	2
6			ME310Y.Operation Research	
			Total OE Credits	**8**

ET

Open Elective (OE) Courses offered by E&Tc Department (For Students of departments other than E&Tc Engineering)

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
1	III	OE-I	ET204 NX Digital Electronics	4
2			ET204NY Principles of Electronics Engineering	
3	IV	OE-II	ET254NX Fundamentals of Microprocessor and Micr	2
4			ET254NY Fundamentals of Telecommunication	
5	V	OE-III	ET305NX Internet of Things	2
6			ET305NY Mobile Communication	
			Total OE Credits	**8**

IN

Open Elective (OE) Courses offered byInstrumentation Department (For Students of departments other than Instrumentation Engineering)

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
1	III	OE-I	IN204NX Transducers	4
2			IN204NY Industrial Instrumentation	
3	IV	OE-II	IN254NX Electronics Measurement and Instrumentat	2
4			IN254NY Automatic Control System	
5	V	OE-III	IN305NX Basics of Process Instrumentation	2
6			IN305NY Virtual Instrumentation	
			Total OE Credits	**8**

79

EE

Open Elective (OE) Courses offered by EE Department (For Students of departments other than EE Engineering)

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
1	III	OE-I	EE204NX Material Science	4
2			EE204NY Industrial Safety	
3	IV	OE-II	EE254NX Electrification of Building	2
4			EE254NY Wind and Solar Power System	
5	V	OE-III	EE305NX Energy Audit & Conservation	4
6			EE305NY Energy Storage Systems	
			Total OE Credits	10

CO

Open Elective (OE) Courses offered by Computer Engineering Department (For Students of departments other than Computer Engineering)

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
1	III	OE-I	CO204 NX Software Engineering	4
2			CO204NY Internet and Communication Technology	
3	IV	OE-II	CO254NX Software Metrices and Quality Assurance	2
4			CO254NY Operating System and System Programmi	
5	V	OE-III	CO305NX Professional Ethics and Cyber Security	2
6			CO305NY Human Computer Interaction	
			Total OE Credits	8

CE

Open Elective (OE) Courses offered by Civil Engineering Department (For Students of departments other than Civil Engineering)

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
1	III	OE-I	CO204 NX Building materials and construction	4
2			CO204NY Geographic Information System Science and Application	
3	IV	OE-II	CO254NX Green Building	2
4			CO254NY Hydrology	
5	V	OE-III	CO305NX Environmental Impact Assessment	2
6			CO305NY Industrial Pollution and Control	
			Total OE Credits	8

Sl. No.	Semester	OE Level	Course Code and Name of Course	Credits
Open Elective (OE) Courses offered by Science & Humanities Department				
1	III	OE-I	SH206 NP Integral Equations and Mathematical Tran	4
2			SH207NQ Statistical Methods for Data Analysis	
3	IV	OE-II	SH208NR Computational Techniques	2
4			SH209NS Differential Equations and Complex Analy	
5			SH210NT Nanoscience and Nanomaterials	
6	V	OE-III	SH301NA Nanotechnology	2
			SH302NB Organizational Behaviour	
			SH303NC Life Skills	
			SH304ND Forts Engineering and culture study	
			Total OE Credits	**8**

$8|$

Action Plan for Improvement in Academics of the Institute

1. Improvement in Curriculum

- **Actions:**
    o **Industry Collaboration:** Involvement of industry personnel in curriculum revision
    o **Competency Mapping:** Mapping course outcomes to program outcomes and relevant skills.
    o **Introduction of Electives:** Incorporating program elective and multidisciplinary open elective courses in emerging areas.
    o **Skill-based Training:** Inclusion of skill-based training modules and certifications in curriculum in collaboration with organizations like NPTEL, Coursera, and Skill India etc..
    o **Feedback Integration:** Utilizing alumni and employer feedback to identify curriculum gaps.

    Responsibility: Respective Board of Studies, Dean (Academics) for guidance

2. Strengthening Feedback Mechanism

- **Actions:**
    o **Online Feedback System:** Involvement of maximum number of students in the semester-wise feedback on teaching, course content, and infrastructure.
    o **Actionable Insights:** Use feedback for real-time corrective measures and future planning.
- **Responsibility:** Academic and Examination Cell, Respective Head of the Department

3. Enhancing the Teaching-Learning Process and learning outcomes

- **Actions:**

    o For further improvement, the awareness sessions about implementing OBE for all faculty members need to be arranged.

82

- o Awareness sessions about active learning techniques like flipped classrooms, problem-based learning and project-based learning, need to be arranged.
- o Awareness sessions about effective use of digital learning platforms for resource sharing and assessment, like Moodle, Google Classroom, need to be arranged.

- **Responsibility:** Dean (Academics) in coordination with all departments

4. Improving Structures and Methodologies of Operations

- **Actions:**
  - o **Automation of Processes:** Digitize examination, and result processing systems for transparency.
  - o **Academic Calendar:** Ensure timely preparation and adherence to the academic calendar.
- **Responsibility:** Academic and Examination Cell.

This action plan, aims to foster a learner-centric academic environment while ensuring operational efficiency and quality outcomes.

Dr. S. P. Mohani
Dean (Academics)
Government College of
Engineering, Jalgaon

83

Item No: 09: Suggest Modifications for improvement in existing teaching-learning process

Improving the existing teaching-learning process is essential to keep it relevant, effective, and engaging. Following are suggestions for modifications that could enhance teaching practices, foster student engagement, and improve learning outcomes:

Improvement in existing Teaching-learning process:-

1. Incorporating Active Learning

- **Problem-Based Learning (PBL)**: Integrate real-world problems into the curriculum where students collaborate to solve them. This boosts critical thinking, collaboration, and application of knowledge.
- **Flipped Classroom**: Have students review learning material at home (e.g., through video lectures or reading) and use class time for discussions, group work, or solving problems, enhancing interaction and practical application of knowledge.
- **Interactive Activities**: Incorporate group discussions, peer teaching, debates, and case studies to ensure that students actively engage with the material rather than passively receiving information.

2. Technology Integration

- **Learning Management Systems (LMS)**: Enhance the use of LMS platforms like Moodle, Google Classroom, or Canvas to facilitate resource sharing, assessments, feedback, and communication.
- **Gamification**: Use game-based learning tools (e.g., Kahoot, Quizizz) to motivate students through rewards, competition, and engagement.
- **Collaborative Tools**: Utilize tools like Google Docs, Miro, or Padlet to enable collaborative learning where students can work together in real-time, sharing ideas and learning collectively.

3. Connecting Learning to Real-Life Contexts

- **Industry Partnerships**: Foster connections with local businesses, professionals, and industry experts to bring real-world insights into the classroom through guest lectures, internships, or collaborative projects.
- **Community Engagement**: Encourage students to participate in community service or projects that directly impact their local environment, enhancing the relevance of their learning.
- **Career Counseling**: Provide better career guidance through counseling, workshops, and exposure to various career options, helping students connect their academic learning to future professional paths.

Catering to students diversity:-

1. Personalized Learning

- **Adaptive Learning Technologies**: Integrate adaptive learning systems that adjust the content difficulty based on individual student performance, providing a personalized learning journey.
- **Differentiated Instruction**: Tailor teaching methods to accommodate diverse learning styles, abilities, and interests. For example, use visual aids for visual learners, hands-on experiments for kinesthetic learners, and discussions for auditory learners.

84

- **Learning Pathways**: Offer options for students to choose from different learning paths based on their interests and career goals, allowing for more engagement and autonomy in the learning process.

2. Assessment and Feedback Reforms

- **Formative Assessment**: Move beyond traditional summative assessments like exams and incorporate continuous formative assessments (quizzes, assignments, presentations) that provide regular feedback to students.
- **Peer and Self-Assessment**: Encourage peer review and self-assessment practices, which help students reflect on their learning progress and develop critical evaluation skills.
- **Instant Feedback**: Use digital tools that allow for instant feedback on assignments or quizzes, which helps students identify areas for improvement and take corrective actions more promptly.

3. Enhancing Social-Emotional Learning (SEL)

- **Promote Emotional Intelligence**: Incorporate SEL programs into the curriculum that help students manage their emotions, develop empathy, and improve interpersonal relationships.
- **Mindfulness Practices**: Integrate mindfulness or stress-relief activities into the daily routine to improve student well-being, reduce anxiety, and enhance focus.

4. Focus on 21st-Century Skills

- **Critical Thinking and Problem-Solving**: Emphasize developing students' critical thinking abilities by encouraging inquiry-based learning, debates, and discussions on complex issues.
- **Collaboration**: Foster teamwork and collaboration through group projects, peer evaluations, and collaborative tools.
- **Digital Literacy**: Ensure that students are equipped with the necessary skills to navigate and critically evaluate information in the digital age, including coding, data analysis, and online communication.

Student Centric Methods:-

1. Student-Centered Approach

- **Student Voice**: Involve students in the decision-making process related to learning activities, content selection, and classroom norms. This increases student ownership and engagement.
- **Active Listening**: Create a classroom culture where student opinions are valued, fostering an environment of mutual respect and understanding.
- **Flexible Learning Spaces**: Allow students to move around and use the space creatively. This could mean re-arranging classrooms into pods, creating quiet zones, or incorporating outdoor learning spaces.

Student Satisfaction Survey:

The National Assessment and Accreditation Council (NAAC) student satisfaction survey aims to assess the overall satisfaction of students regarding various aspects of their educational experience. The survey typically focuses on key areas of student life, including teaching

quality, infrastructure, student support services, and overall learning environment. Below are some common questions that might be included in a NAAC student satisfaction survey:

Teaching-Learning and Evaluation:

1. How satisfied are you with the quality of teaching provided by the faculty members?
2. Are the teaching methods used by the faculty effective in helping you understand the subject matter?
3. How often does the faculty encourage you to participate in discussions and debates during classes?
4. Are the course materials and resources provided helpful and relevant to your studies?
5. How satisfied are you with the evaluation methods (exams, assignments, etc.) used in your courses?
6. Do you receive timely and constructive feedback on your academic performance?

Infrastructure and Learning Resources:

7. How would you rate the physical infrastructure of your college (classrooms, library, labs, etc.)?
8. How satisfied are you with the availability of learning resources such as books, journals, and online materials?
9. How often are the computer labs and internet facilities available for student use?
10. Are the hostel and transportation facilities adequate and convenient?

Student Support Services:

11. How satisfied are you with the academic counseling and mentoring provided by the faculty?
12. How effectively does the college address your concerns regarding personal, academic, or career issues?
13. Are you satisfied with the availability and responsiveness of the student services, including administrative assistance?
14. Does the college organize career development activities (workshops, internships, placement drives)?
15. How satisfied are you with the support provided for extracurricular and co-curricular activities?

Campus Environment and Safety:

16. How safe do you feel on campus regarding physical and mental well-being?
17. How satisfied are you with the overall campus environment in terms of cleanliness, maintenance, and aesthetic appeal?
18. Are the college facilities (canteen, recreational areas, etc.) adequate and of good quality?
19. How inclusive is the campus environment in terms of diversity and respect for different cultures and backgrounds?

Overall Satisfaction:

20. How satisfied are you with your overall academic experience at the institution?
21. Would you recommend this institution to prospective students?
22. What is your level of satisfaction with the institution's response to student feedback and concerns?
23. How would you rate the value for money of the fees and charges you have paid for the education and services?   **Need a OBE Software**

86

Outcome based pedagogic principles for effective teaching

By Prof. Shyamal Kumar Das Mandal | IIT Kharagpur

(/update_profile_and_register?user_email=&raw_slug=/noc25_ge37) **Learners enrolled: 399**

① All visiting faculty shall enrol and complete this course offered by NPTEL.

② Examination fee (Rs·1000) shall be reimbersed subject to certification.

ABOUT THE COURSE : Globalisation, changing demographics and technological advancements are some of the key driving forces of the future. Our students will have to be prepared to face these challenges and seize the opportunities brought about by these forces. In Twenty-first Century Learning, students use educational technologies to apply knowledge to new situations, analyze information, collaborate, solve problems, and make decisions. Twenty-first century education structured should be outcome based which developed certain critical core competencies such as collaboration, digital literacy, critical thinking, and problem-solving, self learning. The curriculum should incorporates higher order thinking skills, multiple intelligences, technology and multimedia, communication skill and self learning methodology along with authenticated scientific assessments and evaluation. Curriculum should provide direction so that student can learn by themselves and work both independently and interdependently. The curriculum and instruction are designed to challenge all students, and provides for differentiation. So the curriculum is not a syllabus or textbook-driven or fragmented, it should be set of Specific, Measurable, Appropriate, Challenging but Achievable educational objective or Skills (outcome) which students will be acquire at the end. Evaluation of student achievement can be made more valid and reliable as the benchmark of achievements is explicitly stated.

INDUSTRY SUPPORT : Companies/industry/ Educational Institute want to Implement 21st Century Education procedure, Educational Institute want to apply for Accreditation

Summary

87

Course Status :	Upcoming
Course Type :	Elective
Language for course content :	English
Duration :	4 weeks
Category :	

- Multidisciplinary
- Faculty Domain for Experienced
- Faculty Domain for Newly Joined

Credit Points :	1
Level :	Undergraduate
Start Date :	17 Feb 2025
End Date :	14 Mar 2025
Enrollment Ends :	17 Feb 2025
Exam Registration Ends :	24 Feb 2025
Exam Date :	27 Apr 2025 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

(/#facebook)   (/#x)   (/#microsoft_teams)   (/#linkedin)   (/#whatsapp)

(https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc25_ge37%2Fpreview& title=Outcome%20based%20pedagogic%20principles%20for%20effective%20teaching%20-%20Course)

Course layout

Week 1 : 21st Century Education and Outcome based Learning
Week 2 : Instructional design for active learning
Week 3 : Outcome based Education
Week 4 : Learning Theories

Instructor bio

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Prof. Shyamal Kumar Das Mandal

IIT Kharagpur

Dr. S K. Das Mandal was born on October 1975; He received the B.E degree in Electronics Telecommunication engineering in 1998 and Ph.D degree in 2007 from Jadavpur University, India and curr working in Indian institute of Technology Kharagpur as an Assistant Professor. His current research inte include automatic speech recognition, speech synthesis, and computer assisted spoken language acquisi

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **April 27, 2025** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 3 assignments out of the total 4 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

Please note that assignments encompass all types (including quizzes, programming tasks, and essay submissions) available in the specific week.

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE >=10/25 AND EXAM SCORE >= 30/75. If one of the 2 criteria is not met, you will not get the certificate even if the Final score >= 40/100.

89

Certificate will have your name, photograph and the score in the final exam with the breakup.It will have the logos of NPTEL and IIT Kharagpur .It will be e-verifiable at nptel.ac.in/noc (http://nptel.ac.in/noc).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team

90

Shirish Adam <shirish.adam@gcoej.ac.in>

Reinstating and reviving IonCudos software at Government College of Engineering, Jalgaon.

Mohammed Kaleem <mohammed.kaleem@ionidea.com>   Mon, Aug 5, 2024 at 2:01 PM
To: prashant.gaidhane@gcoej.ac.in
Cc: manohar.joshi@ionidea.com, santhosh.p@ionidea.com, shirish.adam@gcoej.ac.in

Dear Dr. Prashant J. Gaidhane Sir,

Greetings from the IonCUDOS Team!

Thank you for taking the time to discuss the renewal of IonCUDOS OBE Software for your esteemed institution. As we discussed, here is a brief overview of the IonCUDOS License procured in 2018:

- **Date of PO Issue:** December 4, 2018
- **Number of Programs:** 6
- **Installed IonCUDOS Version (2018):** V6.2

The current version of IonCUDOS OBE Software is V10.2, and we no longer offer support for older versions. The current license fee is INR 1,20,000 per program per year. However, as the Government College of Engineering is one of our marquee clients, I am pleased to inform you that I have secured a special approval from management to offer a 50% discount. This brings the cost down to INR 60,000 per program per year.

We offer various hosting solutions that can be deployed on your institution's cloud, in-campus server, or at our Ionidea data centre for a nominal charge of INR 20,000 per program.

Please find the attached IonCUDOS OBE Software Yearly Term License quotation with Hosting charges for 6 UG programs for your reference and requesting you to guide on the further process.

We look forward to your positive response and are eager to be your ICT partner in the OBE automation journey.

Thanks & Regards,

Mohammed Kaleem
Sales Head - IonEducation
Work: +91 (80) 6658 1717; Ext- 1015, Mobile: +91 99804 59859;
E-Mail: mohammed.kaleem@ionidea.com

Institute level purchase committee shall negotiate with supplier and new version for 6 years shall be purchased for full cycle of Accreditation.

91

101

URL: www.ionidea.com;_www.ioncudos.com;_www.ion-education.com
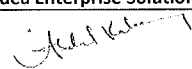
IonIdea Engage Excellence

IONCUDOS | **IONFMS** | **IONEMS** | **IONDVS** | **IONCBE** | **IONLMS** | **IONEXAM**
Outcome Based Education & Accreditation Readiness | Admissions & Fees Management | Student Lifecycle & Examinations Management | Digitisation of Valuation | Competency Based Education for Medical Programs | OBE Based Learning Management | Remote Examinations Administration

[Quoted text hidden]

📄 **IonCUDOS_Term_License_Quotation_GOCE_Jalgaon_Aug_2024.pdf**
459K

92

		IonIdea Enterprise Solutions Pvt. Ltd. Plot # 38-40, Export Promotion Industrial Park Whitefield Bangalore 560 066, India Tel : 080 - 66581500

QUOTATION

To	Dr. Suhas S. Gajre, Hon. Principal	QT. No.	ION/EDU/A0062/2024
	Government College of Engineering, Jalgaon Opp. Government ITI, National Highway No. 6, Post: Jalgaon - 425 002, Maharashtra, India	Date	05-Aug-24
		Enquiry reference	Discussion on IonCUDOS OBE Software
		Dealt with by	Mohammed Kaleem

Sl. No.	Description	License Price for 6 UG Programs
1	IonCUDOS OBE Software Yearly Term License - for 6 UG Engineering Programs - List Price @ INR 1,20,000 per program per year; Discounted Price for GCOE Jalgaon @INR 60,000 per program per year Modules: Curriculum design for OBE, Delivery Planning, Online Lesson Plans, Academic Reports Assessment Planning (Internal Assessment and Semester End Assessments), Question Paper module, Rubrics Module, Attainment of Course Outcomes, Attainment of Program Outcomes, Student Improvement Module, Faculty Contribution Module, Survey Module, Analytics & Reports and SAR Module	₹ 3,60,000
2	Hosting Charges for IonCUDOS OBE Software - @20,000 per program per year	₹ 1,20,000
	TOTAL AMOUNT (INR) excluding Taxes	₹ 4,80,000
	Taxes @ 18%	₹ 86,400
	TOTAL AMOUNT (INR) including Taxes	₹ 5,66,400
	Rupees Five Lakhs Sixty Six Thousand Four Hundred Only Inclusive of Taxes	

Terms & Conditions

1	Taxes	Tax calculation is subject to change as per applicable Government tax norms.
2	Payment	50% payment along with PO and 50% after installation and online training
3	Contract Duration	Minimum of 5 years renewal contract and commitment from both parties
4	Training	Four days online training is included, Onsite trainings are chargeable at the rate of 10,000/- INR per day. Training logistics, trainer logistic shall be handled by the institution, in case of any travel involved by IonIdea team
5	Support and maintenance	No additional charges of support and maintenance for 12 months from the date of installation. IonIdea technical and product support shall be handled remotely for which necessary levels of access privileges should be provided by the institution
6	Travel	Travelling and living expenses shall be borne / reimbursed by Institution at actual, whenever travel is required by IonIdea team members to the location of the Institution
7	Data Disclaimer	Kindly be aware that IonIdea is a software solutions company and provides software licenses to use. We do not use or provide the data of any institution or the council/commission along with the software license. The data keyed in is the sole responsibility of the institution for which IonIdea or Ionidea's solutions are not responsible
8	Hardware Requirement	Server/Cloud space has to be procured separately by Institution, however institution can also opt to host the licences in IonIdea private cloud/data centre on rental basis separately.

GST: 29AAACI2968J1Z6	CIN: U85110KA1996PTC020909	PAN: AAACI2968J

For IonIdea Enterprise Solutions Pvt. Ltd.

(Mohammed Kaleem)

Authorised Signatory

93

Government College of Engineering, Jalgaon
Dean IIL /Training and Placement Department
Report for the academic year 2024-25

Sr. no.	Name of company	Status	No. of students shortlisted for interview	No. of students selected	Package
1	Schneider Electric	Completed	03	01	6LPA
2	Johonsons controls	Completed	04	01	5.5 LPA
3	Torrent : Renewable Energy	Result awaited	22	10	4.5 LPA
4	L&T Realty	Interviews are scheduled on 07/11/2024	12	3	6.5LPA
5	Reliance Industries Limited (RIL)	Interviews are scheduled after 07/12/2024	--	--	
6	Gharda Chemicals Limited	Interviews remaining	13	--	
7	Pratiti technologies	Completed	02	--	--
8	Torrent Power Limited, BSMK	Interviews remaining	11	8	5 c
9	FOX , Pune	Completed	00	--	
10	Larsen & Toubro Limited	Interviews remaining	--	--	
11	INOX Air Products Private Limited	Interviews are scheduled in last week of November	24	7	4.5 LPA
12	TATA Consulting Engineers Limited (TCE)	In process	--	--	
13	Tata Motors Ltd	Test completed result awaited	--	--	

94

14	IndiTech Valves Pvt. Ltd. Pune	Completed	03 (23-24 batch)	01	3.5 LPA
15	Atlas Copco (India) Private Ltd.,Pune	Completed	16(23-24 batch)	06	5LPA
16	L&T Construction	Result awaited			
17	Emerson Pune	In process			
18	RDC Concrete (India) Ltd	In process			
19	Bosch Limited	Result awaited			
20	Jacobs Solutions India Pvt. Ltd.	In process			

MoUs in academic year 2024 -25 :

1. IBM SkillsBuild : Till date in this academic year 230 plus students registered and taken training
2. Fuji Electric India Private Limited

Course registration for NPTEL
for internships and full time jobs

Shri. M. S. Sadavarte

This course shall be made compulsory
for institute leve campus registration.

95
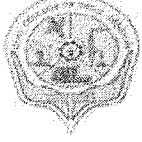
महाराष्ट्र शासन

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

शासकीय अभियांत्रिकी महाविद्यालय, जळगाव

(महाराष्ट्र शासनाची स्वायत्त संस्था)

National High 6, Jalgaon-425002, India. | राष्ट्रीय महामार्ग ६, जळगाव-४२५००२, भारत.

Phone: (0257) 2281322, 2280331, 2280334 | फोन (०२५७) २२८१३२२, २२८०३३१, २२८०३३४

Email: principal.gcoejalgaon@dtemaharashtra.gov.in   Website: www.gcoej.ac.in

Government College of Engineering , Jalgaon

Training and Placement Department

Placement of 2023-24

Sr. no.	Department	Count	Maximum Package	Average Package
01	Civil	17		
02	Computer	28		
03	Electrical	34		
04	E and Tc	13	7.5 LPA	3.5 LPA
05	Instrumentation	14		
06	Mechanical	29		
	Total	135		

96

Government College of Engineering, Jalgaon

Training and Placement Department

Internship data of 2023-24

Sr. no.	Department	Count
01	Civil	66
02	Computer	141
03	Electrical	63
04	E and Tc	44
05	Instrumentation	39
06	Mechanical	91
	Total	444

९७

on issues that arise, as the relationship evolves, will be resolved in a spirit of mutual understanding. If there is conflict at any moment, it shall be resolved in a peaceful and amicable manner.

- **Financials:** This LoU is of non-financial in nature where there is no financial transaction or provisioning involved. CSRBOX shall cover all costs linked to session facilitation and workshop execution. No fees will be levied on institution by CSRBOX. The terms and provisions in this LoU also apply to any subsequent Addendum to this agreement.

- **Communication and Reporting:** The objective of the IBM SkillsBuild and IBM Academia Programs is to inculcate 21ˢᵗ Century Skills and engage various stakeholders in the process. CSRBOX shall provide the institution with timely reports in phases, facilitating thorough monitoring and evaluation of the undertaken initiatives. **If your institution is approached by any other organization for the same program, kindly let us know to avoid fraudulent activities.**

- **Legal Aspects:** This LOU is a statement of intent and does not create any legal obligations between the parties involved. The unsigned party hereby acknowledges that this LOU is a non-binding agreement and is subject to change or withdrawal at any time without penalty.

- **Other terms and conditions:** CSRBOX Foundation cannot utilize and transform the data of the persons enrolled in the course without taking prior permission from the Government College of Engineering, Jalgaon The Parties are entering into this LOU in good faith and intentions.

Termination and Extension of LOU

The partnership covered by this LOU shall terminate upon completion of the agreed upon period. In the event of non-compliance or breach by one of the parties of the obligations binding upon it, the other party may terminate the agreement with immediate effect, if there is no resolution available for the breach. This LOU can be extended further as per the mutual agreement between the parties.

IN WITNESS WHEREOF, the parties hereto have executed this LOU on the day 27/09/2024.

Dr. Suhas S. Gajre
Principal,
Government College of Engineering, Jalgaon,
Opp. Government ITI, National Highway No. 6,
Post: Jalgaon - 425 002, Maharashtra, India

(Dr. Suhas Sudhakarrao Gajre)
Principal
Government College of Engineering,
Jalgaon

Rohit Rajput
Manager- CSR Programs
IBM SkillsBuild
For IBM SkillsBuild (CSRBOX Foundation)
Swati Trinity, Applewood Township, A-404, Shela,
Sarkhej-Okaf, Gujarat, 380058

98
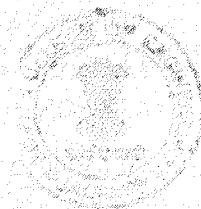
its base of beneficiaries/learners.

2. Government College of Engineering, Jalgaon will Mobilize, motivate, and facilitate engagement within the institution for the IBM SkillsBuild program.

3. Government College of Engineering, Jalgaon will Connect with designated Special Points of Contact (SPOCs) across various departments to encourage participation in the IBM SkillsBuild workshops and initiatives.

4. Appointed Special Point of Contact (SPOC) will motivate and facilitate ongoing engagement in the program.

Roles and Responsibilities of Second Party (CSRBOX):

1. **Partnership Overview:** IBM SkillsBuild and CSRBOX Foundation will partner with Government College of Engineering, Jalgaon as the 'Partner' for the IBM SkillsBuild initiative. They will work closely with Government College of Engineering, Jalgaon's team to leverage at least 80% of the institution's capacity during the partnership tenure to build industry-relevant skill sets.

2. **Goals and Benefits:** Enhance the employability prospects of students/learners by providing market-linked skills.

3. **CSRBOX Foundation's Role:** Assist the institution in reaching out to participants through various methods. Onboard participants and conduct physical sessions to inculcate 21st Century Skills. Support participants with employment opportunities.

4. **IBM SkillsBuild Platform Engagement:** CSRBOX Foundation, as the IBM SkillsBuild Country Partner, will facilitate the onboarding of learners (students) onto the platform. Ensure each learner initiates/completes at least one short course on the IBM SkillsBuild Platform in a phased manner as mentioned below:

Engagement of Learners on the Platform:

- Phase I- 20% learners on the IBM SkillsBuild platform within Pilot implementation.
- Phase II- 80% learners' engagement within this Financial Year.

Duration

This LOU for the program IBM SkillsBuild is initially for three-year duration w.e.f. 27/09/2024 for both the programs (IBM SkillsBuild for Adult Learners and IBM SkillsBuild for Academia).

Terms and Conditions

- **Confidentiality:** Each party shall acknowledge and agree that any and all information derived during the course of this assignment in any form is "Confidential Information". All the information related to the children (like their names, photos taken during the session etc.) everything will be kept confidential.

- **Data Privacy and Protection:** The data will be used only for onboarding learners to the IBM SkillsBuild and IBM Academia platforms and in subsequent reporting of their engagement to the institution. CSRBOX will maintain the confidentiality of learners' data received as a part of this contract

- **Limitation of Liability:** Institution will be responsible for mobilizing the learners and helping CSRBOX to conduct and implement IBM SkillsBuild and IBM Academia programs to develop essential 21st Century and Job readiness skills in learners.
The parties enter into this agreement in a spirit of mutual trust and intend that unforeseen matters

99

base of students/beneficiaries and other important stakeholders to build industry-relevant skill sets & enhance employability prospects of students/ learners by providing knowledge of emerging technology.

IBM SKILLSBUILD FOR ACADEMIA

The following content outlines the engagement, roles and responsibilities of the two parties specifically for the program IBM SkillsBuild for Academia.

ENGAGEMENT OUTLINE (subject to college commitment)

1. **Masterclasses:** CSRBOX will organize masterclasses which would be conducted by industry experts to provide insights into emerging technologies and industry trends.
2. **Training Sessions:** Under this program, hands on training will be provided to the beneficiaries focusing on specific skill sets and technologies.
3. **Projects and Assignments:** The students will be given assignments and projects for them to apply learned skills in practical scenarios.
4. **Project Evaluation and Progress Monitoring:** The progress of the students will be evaluated and monitored to ensure learning objectives are met.
5. **Showcase Events and Competitions:** CSRBOX will collaborate with institution to provide platforms for students to present their projects and innovations.

Roles and Responsibilities of First Party: Government College of Engineering, Jalgaon

1. **Learner Engagement:** Instruct and motivate students to participate actively in the IBM SkillsBuild for Academia program. Monitor learners' operations to ensure active engagement and satisfactory progress. Make sure students complete 'Badge' course.
2. **Facility Provision:** Provide the necessary infrastructure and facilities for the effective implementation of the IBM SkillsBuild for Academia program, including classroom space, computer labs, and internet access.
3. **Faculty Involvement:** Identify and designate faculty members who will coordinate with the CSRBOX Foundation for the implementation of the program, including participation in training and support activities.

Roles and Responsibilities of Second Party: CSRBOX

1. **Platform Provisioning:** Provide access to the IBM SkillsBuild for Academia platform for students, including any necessary licenses or permissions needed for the use of proprietary software or educational content.
2. **Training and Support:** Facilitate training sessions for faculty and students of your institution, through IBM experts and professionals. Provide ongoing support to ensure smooth operation and utilization of the IBM SkillsBuild for Academia platform.
3. **Event Coordination:** Coordinate with institution, to organize showcase events, competitions, and other engagement activities that highlight the skills and projects of students.

IBM SKILLSBUILD FOR ADULT LEARNERS

The following content outlines the roles and responsibilities of the two parties specifically for the program IBM SkillsBuild:

Roles and Responsibilities of First Party (Government College of Engineering, Jalgaon):

1. Government College of Engineering, Jalgaon, as the 'Partner', will Collaborate closely to leverage

100

CSRBOX | Doing Good
in a **Better** Way
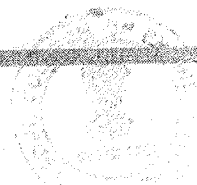
Letter of Understanding (LOU)
between

CSRBOX®
CSRBOX Foundation
and
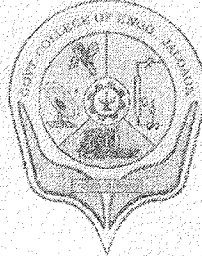
Government College of Engineering, Jalgaon

This Letter of Understanding (LOU) is effective from 27/09/2024 ("Effective Date"), is entered into by and between **CSRBOX Foundation (SMEC Trust)** having its corporate office at Swati Trinity, Applewood Township, A-404, Shela, Sarkhej-Okaf, Gujarat, 380058 (Hereinafter referred to as "IBM SkillsBuild Country Partner - CSRBOX Foundation")

and

Government College of Engineering, Jalgaon having its office at Opp. Government ITI, National Highway No. 6, Post: Jalgaon - 425 002, Maharashtra, India.

Recitals

I. Whereas, IBM SkillsBuild, represented by its country partner for India-CSRBOX Foundation, is a skill building & learning digital platform where users can achieve industry relevant skills, get IBM certified badges & seek employment opportunities for Free.

II. Government College of Engineering was established in the year of 1996. The institute is affiliated to the Kavyitri Bahinabai North Maharashtra University, Jalgaon and is accredited by NAAC with grade B+. The institute has been granted academic autonomy by affiliating university and Government of Maharashtra since June 2014. Institute offers undergraduate programs, post graduation programs and Ph.D. programs in Engineering.

Objectives

The objective of this LoU is to mutually complement both of the above parties' energies, outreach, and efforts to curate opportunities of collaborations, sharing of knowledge resources, and jointly work on building capacities of the users through the two programs- IBM SkillsBuild and IBM Academia.

Operational Aspects

CSRBOX Foundation, as the IBM SkillsBuild Country Partner, will on-board Government College of Engineering, Jalgaon, as the 'Partner' for the IBM SkillsBuild for both the programs- IBM SkillsBuild and IBM Academia and work closely with the college to leverage their beneficiaries/learner

|01

Complete guide for campus interviews: Step by step preparation for Internships and Full-time jobs

By Prof. Vinod Aravindakshan, Prof.Vibin Aravindakshan | IIT Palakkad

(/update_profile_and_register?user_email=&raw_slug=/noc25_hs85) **Learners enrolled: 627**

Mandatory registration by 3rd year students tobe eligible for Institute level campus in final year.

ABOUT THE COURSE:

This is a course intended to help students find jobs in industry. We will help students with the basics of understanding the different types of skills, the nature of the labor markets, the issues in recruiting, how to write a good resume, how to network and how to prepare for interviews. We will close by providing the right framework to evaluate careers.

The activities will be hands on, where each student is expected to work on their resume, Linkedin profile and interviews along with a bunch of other assessments.

We are working on part 2 of this course about domain specific interview preparation, which will be delivered in July 2024 along with industry experts and Professors from IIT Madras and IIT Tirupati.

INTENDED AUDIENCE: 2nd, 3rd and 4th year students of undergraduate programs interested in internships and full-time jobs. 1st and 2nd year of Masters degree programs. Pre- final year students of PhD programs.

INDUSTRY SUPPORT: MNC recruiters coming to campus, especially those in Data Analytics, Software, Consulting and Core Engineering.

102

Summary

Course Status :	Upcoming
Course Type :	Elective
Language for course content :	English
Duration :	4 weeks
Category :	○ Humanities and Social Sciences
Credit Points :	1
Level :	Undergraduate/Postgraduate
Start Date :	17 Feb 2025
End Date :	14 Mar 2025
Enrollment Ends :	17 Feb 2025
Exam Registration Ends :	24 Feb 2025
Exam Date :	03 May 2025 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

(/#facebook)   (/#x)   (/#microsoft_teams)   (/#linkedin)   (/#whatsapp)

(https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc25_hs85%2Fpreview&
title=Complete%20guide%20for%20campus%20interviews
%3A%20Step%20by%20step%20preparation%20for%20Internships%20and%20Full-time%20jobs%20-%20Course)

Course layout

Week 1:
Introduction to hiring and jobs:
- Understanding the hiring process
- How to identify the right sector and company
- Understanding the economics of labor markets
- Understanding the tradeoff between salaries, skills and work life balance
- The issues with chasing high compensation

Industry, sector and company differences
- Pros and Cons: Startups vs established companies,Core jobs vs software jobs, stable jobs vs high growth,
- Why core engineering jobs should be taken more seriously
- Choosing startups and entrepreneurship careers

113

Week 2:
Resume preparation:
- Skill identification
- Customizing resume
- Recruiter expectations.
- Tips to a perfect resume
- Honesty & Integrity in creating resume, why exaggeration and manipulation backfires

Networking:
- Importance of networking
- Improving Linkedin profile
- Connecting with industry prospects and how to pitch yourself
- Using employee referrals & how it works
- Good and bad practices during networking

Week 3:
Pre-Interview preparation:
- Skill identification
- STAR interview preparation
- How to impress HR recruiters

Interview preparation:
- Skill identification
- STAR interview preparation
- Best practices & tips to answer screening questions
- Communication skills
- Best practices after job offer or rejection by company
- How to decline offers gracefully

Week 4:
Communication skills and body language:
- How to improve communication skills
- How to communicate effectively
- Body language and presentation skills

Post interviews
- Best practices after job offer or rejection by company
- How to decline offers gracefully
- How to handle failure
- Why early success and failure has little correlation with long term career success
- The business and people skills that you will need in the future and how to gain them
- A better framework to view careers, how to measure career success
- How to pass your knowledge and legacy forward

Higher studies:
- Higher education from a skill perspective
- Pros and Cons of MS, PhD, MBA programs
- Life in academia   104
- How you can optimize careers uniquely

Books and references

Required:

1) Vinod Aravindakshan, Careerbolt guide to Campus Interviews, eBook (https://careerbolt.app/books/), Paperback (https://careerbolt.app/books/)

2) Vinod Aravindakshan, Careerbolt guide to Careers, eBook (https://careerbolt.app/books/), Paperback (https://careerbolt.app/books/)

Free resources:

1) "Careerbolt for Students" YouTube Channel (https://www.youtube.com/@Careerbolt) to watch previous sessions at IITs and FAQ answers

Instructor bio

Prof. Vinod Aravindakshan

IIT Palakkad

Vinod Aravindakshan is Teaching Faculty at IIT Palakkad, and founder of Careerbolt.app. He earlier worked as a HR Director in the Silicon Valley across companies like CDK Global and Cisco. He has 15 years of work experience in HR and recruiting. He is a graduate of IIT Bombay with a Masters degree from Cornell University and an MBA from the University of Wisconsin-Madison. He also has an honorary PhD. He has handled career workshops at 10 IITs.

Prof.Vibin Aravindakshan

Vibin Aravindakshan is the CTO of Careerbolt.app. He is an instructor at IIT Palakkad. He earlier worked as a Director, Product Management at Salesforce, San Francisco and at Amazon Web Services in Sunnyvale. He is a graduate of IIT Madras with a MS degree from MIT and an MBA from Georgia Tech. He has handled career workshops at 10 IITs.

105

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **May 3, 2025** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 3 assignments out of the total 4 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

Please note that assignments encompass all types (including quizzes, programming tasks, and essay submissions) available in the specific week.

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE >=10/25 AND EXAM SCORE >= 30/75. If one of the 2 criteria is not met, you will not get the certificate even if the Final score >= 40/100.

Certificate will have your name, photograph and the score in the final exam with the breakup.It will have the logos of NPTEL and IIT Palakkad .It will be e-verifiable at nptel.ac.in/noc (http://nptel.ac.in/noc).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team

106

IPR&StartupPolicy

Document

(Aligned with National Innovation and Start-up Policy[1] 2019)
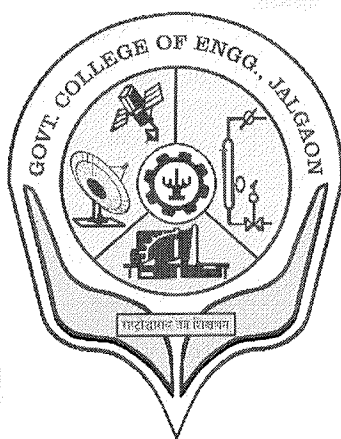
Government College of Engineering, Jalgaon

NH6, Jalgaon, Maharashtra, PIN 425002, India

An Autonomous Institute of Government of Maharashtra

NAAC Accredited with grade B++ (2024-2029)

Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Vision: Globally Accepted Engineers with Human Skills

Website: https://www.gcoej.ac.in ▪ DTE Code: 5004

+91-257-2281522 ▪ principal.gcoejalgaon@dtemaharashtra.gov.in ▪ principal@gcoej.ac.in

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)

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[1] For more on NISP 2019 visit https://nisp.mic.gov.in/

10 7

Contents

108

Message from Principal

It gives me immense pleasure to release the *IPR and Startup Policy Document* of our institution. In today's rapidly evolving world, the need for innovation and creativity is more critical than ever. Our goal is to nurture talented engineers who can solve pressing challenges through creativity, problem-solving, and entrepreneurship. To achieve this, we must foster a culture of creativity, problem-solving, and entrepreneurship that encourages students to think beyond conventional boundaries.

The *Startup Policy* outlined by All India Council of Technical Education, New Delhi (AICTE) in 2019, along with the guidelines from the Government of Education, India, is a visionary step to build a vibrant startup ecosystem. It's a privilege to align with this national initiative, fostering innovation and entrepreneurship to benefit both the nation and our institution.

For a rural area like Jalgaon, this vision holds great promise. Our students, faculty, and community have immense untapped potential. With the right support, they can turn local challenges into opportunities that benefit the region and beyond. By fostering a startup culture, we aim to inspire our students to dream big and bring positive change to their surroundings, driving economic growth and creating employment opportunities.

I assure you of our full support for all activities under this policy, with necessary infrastructure, mentorship, and guidance. I encourage our students, faculty, and alumni to engage wholeheartedly, creating a culture where every idea is valued, and every individual is empowered to pursue their dreams.

I call upon our students, faculty members, and alumni to embrace this policy wholeheartedly. This is your chance to be a part of a movement that has the potential to transform lives, both yours and those around you. Let us work together to build a culture of innovation, where every idea is valued, every question is encouraged, and every individual is empowered to pursue their dreams.

As we move forward, it is crucial to cultivate a mindset of continuous innovation. The world around us is evolving rapidly, and to stay ahead, we must adapt, learn, and innovate every day. Let this policy be the catalyst that drives a culture of persistent creativity and problem-solving in our institution with a spirit of **#KeepInnovatingEveryDay**.

-Dr. Suhas S. Gajre

109

Startup Policy Document

Aligned with National Innovation and Start-up Policy (NISP[2]) 2019

of

Government College of Engineering, Jalgaon

NH6, Jalgaon, Maharashtra, PIN 425002, India

An Autonomous Institute of Government of Maharashtra

NAAC Accredited with grade B++ (2024-2029)

Preamble

In today's rapidly evolving technological landscape, engineering institutes play a crucial role in driving innovation and fostering a startup ecosystem. The need for an innovation-driven environment is more significant than ever, as it encourages students to apply their technical knowledge to solve real-world problems, leading to the development of groundbreaking products and solutions. An active startup culture not only boosts creativity but also promotes critical thinking, collaboration, and leadership among students. Furthermore, it helps bridge the gap between academia and industry, allowing for the seamless transfer of technology and ideas. Engineering institutes are uniquely positioned to be hubs of innovation due to their technical expertise, research facilities, and strong industry connections. By nurturing startups, they can contribute to economic growth, create job opportunities, and drive societal change. Establishing a robust ecosystem that supports entrepreneurship empowers students to transform their ideas into viable businesses, fostering a mindset of innovation and resilience. Therefore, it is imperative for engineering institutes to provide the necessary infrastructure, mentorship, and resources to cultivate a thriving startup culture, enabling future engineers to become successful innovators and entrepreneurs.

Although Government College of Engineering, Jalgaon (GCOEJ) isnow committed to fostering a culture of innovation and entrepreneurship within the institute. The IPR and startup policy aims to address key aspects necessary for nurturing an ecosystem that supports startups and innovation at GCOEJ. This includes guidelines on intellectual property ownership, revenue-sharing mechanisms, technology transfer and commercialization, equity distribution, and other essential elements to encourage and sustain entrepreneurial ventures.

Vision

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[2]For more on NISP 2019 visit https://nisp.mic.gov.in/

- To create a dynamic ecosystem that fosters innovation, creativity, and entrepreneurship, empowering future engineers to transform ideas into successful ventures. We aim to establish GCOEJ as a leading hub for research, innovation, and sustainable economic growth.

Mission

- *Promote Innovative Thinking:* Encourage innovative thinking and creativity among students and faculty, integrating these principles into the curriculum to enhance the overall success of engineers in solving complex, real-world problems through a multidisciplinary approach.

- *Develop Entrepreneurial Skills:* Build an incubation and startup culture that nurtures future entrepreneurs by providing comprehensive training, mentorship, and resources, enabling them to transform ideas into viable ventures.

- *Establish Supportive Guidelines:* Develop clear guidelines for managing Intellectual Property Rights (IPR), technology licensing, equity sharing, and entrepreneurial initiatives, ensuring a seamless pathway for faculty, students, and stakeholders to establish successful enterprises.

- *Create a Robust Innovation Ecosystem:* Foster a thriving innovation ecosystem that supports cutting-edge research, entrepreneurship, and sustainable economic growth for the benefit of the community, industry, and the nation.

- *Enhance Networking and Collaboration:* Strengthen networks with existing innovation hubs and startup communities, creating better opportunities and aligning goals to maximize the success of entrepreneurial endeavors.

About us

Established in 1996 by the Government of Maharashtra, the Government College of Engineering, Jalgaon (GCOEJ), is a renowned co-educational autonomous engineering institution located in the heart of Jalgaon city. Approved by the All India Council for Technical Education (AICTE), recognized by the Directorate of Technical Education (DTE) Maharashtra State, and affiliated with Kavayitri Bahinabai Chaudhari North Maharashtra University (KBCNMU), Jalgaon, GCOEJ has been dedicated to delivering quality technical and professional education to prepare students for the evolving challenges of a dynamic world.

Since June 2014, the institute has enjoyed academic autonomy granted by KBCNMU, the University Grants Commission (UGC), and the Government of Maharashtra.

The Government of Maharashtra has appointed a Board of Governors (BoG) to oversee this autonomous institution. The current chairman, Hon. Shri. Ashok Bhanwarlalji Jain, a visionary industrialist from Maharashtra, brings a forward-thinking approach that integrates local and global values, fostering the adoption of cutting-edge technology and modern trends in engineering education.

The institute offers six undergraduate (UG) engineering programs under its autonomous status, with a total intake capacity of 360 students. These programs include (with intake of 60 each):

- B. Tech. in Mechanical Engineering
- B. Tech. in Electronics and Telecommunication Engineering
- B. Tech. in Instrumentation Engineering
- B. Tech. in Electrical Engineering
- B. Tech. in Computer Engineering
- B. Tech. in Civil Engineering

Additionally, GCOEJ offers three postgraduate (PG) programs with a total intake of 45 students:

- M. Tech. in Electronics and Telecommunication Engineering
- M. Tech. in Electrical Instrumentation and Control Engineering
- M. Tech. in Heat Power Engineering

The institute also has five recognized Ph.D. programs (KBCNMU-approved research laboratories) in Mechanical, Electronics and Telecommunication, Instrumentation, Electrical, and Civil Engineering.

GCOEJ boasts state-of-the-art infrastructure, including well-equipped laboratories, modern facilities, and a comprehensive library, all aimed at providing top-quality education to undergraduate and postgraduate students, as well as research scholars. The institute has received substantial funding for laboratory development and research from various external agencies, including AICTE and TEQIP (World Bank).

The institute maintains collaborations with premier institutions and industries, offering students numerous opportunities such as internships, skill development programs, finishing schools, credit transfers, access to soft computing tools, and industry-relevant projects that span a full semester. These initiatives aim to enhance the employability and practical skills of students.

GCOEJ is committed to a progressive and pragmatic approach in serving its stakeholders, consistently striving to deliver excellence in engineering education. More about the institute can be found at https://www.gcoej.ac.in/.

Prologue

GCOEJ aims to establish itself as a hub for innovation and a thriving startup ecosystem. To achieve this, the institute plans to set up state-of-the-art laboratories, centers, and facilities, along with a comprehensive support system for pre-incubation and incubation. Additionally, GCOEJ will strengthen its network by collaborating with partners, including alumni, industry, and government bodies. This initiative will engage students, faculty, and staff in activities that foster innovation and entrepreneurship. The framework outlined in this policy provides clear guidelines on startup support, stakeholder involvement, and performance metrics. It details the institutional infrastructure and practices for nurturing innovation, the pathways for entrepreneurs, and the educational strategies for developing entrepreneurial skills. Furthermore, the policy addresses GCOEJ's role in co-creation, business collaboration, and knowledge exchange. It also includes measures for assessing entrepreneurial impact and initiatives to encourage students to pursue entrepreneurship as a career, celebrating their achievements alongside their families. This policy is aligned with the National Innovation and Startup Policy (NISP) 2019 issued by the Ministry of Education's Innovation Cell (MIC).

Thegeneralprinciplesare as follows:

1. Collaboration for Training, Research and Development in the field Startup, Innovation, and entrepreneurship.
2. To carry out programmes and projects by means of specific agreements with designated partners and other organisations.
3. To get guidance in following areas for developing eco-system:
    - Design Thinking
    - Business Opportunity Identification
    - Business Idea Generation
    - Soft skills development
    - Feasibility studies
    - Start-up Finance
    - Launching and Sustaining Start-Ups
    - Incubation and Acceleration
    - Elevator-Pitch (How to pitch business ideas for funding)
    - Angel Investors and Venture Capital Funds
    - Setting up of Dedicated Laboratories/Centers for Innovation
    - etc.

113

Following thrust areas are identified (the list may extend to keep pace with the new trends):

1. Agriculture and allied fields
2. Drone Technology
3. Robotics
4. E-vehicle and allied areas
5. Internet of Things (IOT)
6. Artificial Intelligence and Machine Learning
7. Biomedical engineering and technology
8. Computer Vision
9. Cyber Security
10. Information & Communication Technology (ICT)
11. GIS related areas
12. Healthcare
13. Manufacturing
14. CleanTechnology
15. Energy
16. Water
17. Services

The themes in accordance with the thrust areas will be:

- Industry 4.0
- Information Technology and Services
- HealthTech
- EduTech
- Automotive and Mobility
- Cybersecurity and Privacy
- Enterprise and Infrastructure
- AgriTech and Alternate Foods
- GreenTech
- Smart Homes and Smart Cities
- Remote Sensing Technologies
- Other (Media, Pharma, Retail, Materials, etc.)

114

GCOEJ shalltry to make a pool of interested students and faculty desirous of converting their ideas into successful start-ups. Efforts will be made to contact alumni, other like-minded individuals/organizations, which can aid the objectives of this policy.Support[3] to arrange programs (such as use of infrastructure, volunteers, consumables, media coverage, etc.) will be done on priority basis. If any collaborative projects and/or funding proposals are undertaken with the partners, a separate detailed collaboration agreement will be negotiated between the two (or more)individuals/organizations.The confidentiality of all the data shared between the two parties. The public dissemination of any information will be based upon the prevalent laws of the land at the time of such information display

Key people and management

i. Dr. Suhas Gajre, Principal and Member Secretary, Board of Governors

ii. Prof. Mahesh Sadavarte, Dean (Innovation, Incubation and Linkages) and In-charge TPO

iii. Heads of the Departments and other Deans/Associate Deans

iv. Expert Committee to implement innovation and start-up policy

v. Institute's Innovation Council

vi. Dedicated alumni pool for volunteering

Contact

Those who have any innovative idea and want to establish a successful startup are advised to contact the following faculty of their branch. The nominated faculties will help them to show direction to avail pre-incubation and incubation facility.

i. Dr. Suhas Gajre, Principal and Member Secretary, Board of Governors

Web:https://www.gcoej.ac.in/site/sgajre.pdf

Email:principal@gcoej.ac.in

Phone: +91-9421851011 (WhatsApp + Call), +91-8208120091 (Call only)

Address: Government College of Engineering, Jalgaon, Opp. Government ITI, National Highway No. 6,Post: Jalgaon PIN 425002, Maharashtra, India

ii. Prof. Mahesh Sadavarte, Dean (Innovation, Incubation and Linkages) and In-charge TPO

Web: https://www.gcoej.ac.in/site/?page=NDg=#parentVerticalTab7

Email: mahesh.sadavarte@gcoej.ac.in,placements@gcoej.ac.in

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[3] Subject to the sanction of Principal/BOG from time-to-time, especially if finance is required.

Phone: +91-9881095623

Address: Room No. 105, First floor, Main Building,Government College of Engineering, Jalgaon, Opp. Government ITI, National Highway No. 6,Post: Jalgaon PIN 425002, Maharashtra, India

Expert Committee to implement innovation and start-up policy

Following expert committee is setup to formulate and implement innovation and startup policy at the institute:

SN	Name	Company/Organisation	Role
1	Shri. Ashok Bhanwarlalji Jain	Jain Irrigation Pvt Ltd	Mentor
2	Shri. Bharat (Dada)Amalakar	President, KeshavsmrutiPratishthan, Jalgaon	Mentor
3	Shri./Smt........	....	Mentor
4	Shri./Smt........	....	Mentor
5	Dr. Suhas S. Gajre	Principal, GCOE, Jalgaon	Chairperson
6	Mr.Vishal V. Deshpande	Professor of Practice, GCOE, Jalgaon	Startup and entrepreneurship policy formulation and implementation
24	Shri./Smt........	MAGIC - Marathwada Accelerator for Growth and Incubation Council	Guidance of management of incubator/pre-incubator
24	Shri./Smt........	KCIIL - KBCNMU Centre for Innovation Incubation and Linkages	Guidance of management of incubator/pre-incubator
7	Shri./Smt........	....	Networking with industries
8	Shri./Smt........	....	Startup and entrepreneurship guidance
9	Shri./Smt........	....	Startup and entrepreneurship guidance
10	Mr. Devdatta Gokhale	GATI, Jalgaon	Alumni relations
11	Shri./Smt........	....	Alumni relations
12	Shri./Smt........	....	Networking with Govt. side
13	Shri./Smt........	....	Networking with non-Govt.
14	Shri./Smt........	....	IT/ITES Startups
15	Shri./Smt........	....	Circuit Branches startups
16	Shri./Smt........	....	IOT Startups
17	Shri./Smt........	....	Civil/Structure Startups
18	Shri./Smt........	....	Other startups
19	Shri./Smt........	....	Finance Cell
20	Shri./Smt........	Head, Dept. of Electrical	Electrical Engineering related tasks

		Engineering	
20	Shri./Smt........	Head, Dept. of E&TC Engineering	E&TC Engineering related tasks
20	Shri./Smt........	Head, Dept. of Computer Engineering	Computer Engineering related tasks
20	Shri./Smt........	Head, Dept. of Civil Engineering	Civil Engineering related tasks
20	Shri./Smt........	Head, Dept. of Instrumentation Engineering	Instrumentation Engineering related tasks
20	Shri./Smt........	Head, Dept. of Mechanical Engineering	Mechanical Engineering related tasks
20	Shri./Smt........	Head, Dept. of Science and Humanities	Science and Humanities related tasks
20	Shri./Smt........	....	
20	Shri./Smt........	....	
21	Shri./Smt........	....	
22	Dr. Machendra K. Sonpimpale	Dean (Research & Development) and Community Projects Coordinator, GCOE, Jalgaon	Research & Development, Community Projects,and IPR
22	Prof. VilasT. Patil	Dean (Planning, Finance, and Special Initiatives) , GCOE, Jalgaon	Planning, Finance, and Special Initiatives
23	Prof. Mrs. Deepa P. Yavalkar	Faculty Member, GCOE, Jalgaon	Gender diversity
25	Shri./Smt.	GCOEJ	
26	Mr. Mahesh S. Sadavarte	Dean (Innovation, Incubation, and Linkages), GCOE, Jalgaon	Secretary

Methodology and Governance

The institute has initiated the establishment of a support group for innovation and entrepreneurship. This initiative has created a pathway towards development ofculture among students and faculty to adopt entrepreneurship as one of the career options. Following steps have been taken to implement policy:

1. A dedicated GCOEJ Innovation and Entrepreneurship Council (GIEC) with defined specific objectives and associated performance indicators for assessment, has been established to facilitate development of an entrepreneurial ecosystem in the organization.

2. Sufficientfunds of the total annual budget of the institution will be allocated for funding and supporting innovationand startups related activities.

3. Encouragement shall be given for raising funds from diverse sources to reduce dependency on public funding. Bringing in external funding through government (state and central) such as DST, DBT, MHRD, AICTE, TDB, TIFAC, DSIR, CSIR, BARC, NSTEDB, NRDC, Startup India, Invest India, MeitY, MSDE, MSME, other

Govt. establishments/Special purpose vehicles, as well as non-government sources will also be encouraged.

4   To support innovation and entrepreneurship promoting activities, it will be highly encouraged and appreciated to approach private and corporate sectors to generate funds, under Corporate Social Responsibility (CSR) as per Section 135 of the Company Act 2013.

5   Funding raising through sponsorships and donations engaging alumni network for promoting Innovation & Entrepreneurship shall be encouraged.

6   GIEC will organize institutional programs such as conferences, convocations, workshops etc. to spread awareness regarding the importance of innovation and entrepreneurial agenda across the institute.

7   Product to market strategy for startups which is a part of IEC policy document will be finalized on micro level on case-to-case basis.

8   Efforts will be encouraged to make the institute a driving force in developing entrepreneurship culture in its vicinity (regional, social and community level). These efforts include giving opportunity for regional startups, provision to extend facilities for outsiders and active involvement of the institute in defining strategic direction for local development.

9   For expediting the decision making, hierarchical barriers would be minimized, and individual autonomy and ownership of initiatives shall be promoted.

Enabling Institutional Infrastructure for Innovation and Startups

Institute will make all efforts for the creation of pre-incubation and incubation facilities for nurturing innovations and startups. The goal of the efforts shall be to link Innovation to Enterprises to Financialsuccess.

1.   Facilities will be created within institute for supporting pre-incubation (e.g. IICs as per the guidelines by MHRD's Innovation Cell, EDC, IEDC, New-Gen IEDC, Innovation Cell, Startup Cell, Student Clubs, etc.) and Incubation/ acceleration by mobilizing resources from internal and external sources.

2.   This Pre-Incubation/Incubation facility should be accessible 24x7 to students, staff and faculty of all disciplines and departments across the institution.

3.   Pre-incubation facilities will not be a separately registered entity; however, 'Incubation Unit' shall be a separate entity registered under Section-8 of Company Act 2013with independent governance structure. This will allow more freedom to Incubators in decision making with less administrative hassles for executing the programs related to innovation, IPR and Startups. Moreover, they will have better accountability towards investors supporting the incubation facility. The proposed section-8 company will have successful alumni entrepreneurs and institute faculty on the Board of Directors.

4. Institutewill offer mentoring and other relevant services through Pre-incubation/Incubation units in-return for fees, equity sharing and/or zero payment basisas the case may be suitable. The modalities regarding Equity Sharing in Startups supported through these units will depend upon the nature of services offered by these units and would be explained through a detailed document separately called as 'Equity Sharing Policy'.

Nurturing Innovations and Startups

1. Institute will establish processes and mechanisms for easy creation and nurturing of Start-ups/enterprises by students (UG, PG, Ph.D.), staff (including temporary or project staff), faculty, alumni and potential Startup applicants even from outside the institutions.

2. While defining their processes, institutions will ensure to achieve following:

    a. Incubation support: Offer access to pre-incubation & Incubation facility to Startups by students, staff and faculty for mutually acceptable timeframe. In case an institute doesn't have a dedicated facility/ infrastructure of its own, then it may reach out to nearest incubation facilities in other HEIs to facilitate access to their students, staff and faculty.

    b. Licensing of IPR from institute to Startup: Ideally students and faculty members intending to initiate a startup based on the technology developed or co-developed by them or the technology owned by the institute, should be allowed to take a license on the said technology on easy term, either in terms of equity in the venture and/ or license fees and/ or royalty to obviate the early stage financial burden.

    c. Setting up a startup(including social startups) and working part-time for the startups while studying / working: HEIs may allow their students / staff to work on their innovative projects and setting up startups (including Social Startups) or work as intern / part-time in Startups (incubated in any recognized HEIs/Incubators) while studying / working. Student Entrepreneurs may earn credits for working on innovative prototypes/Business Models. Institute may need to develop clear guidelines to formalize this mechanism. Student inventors may also be allowed to opt for Startup in place of their mini project/ major project, seminars, summer trainings. The area in which a student wants to initiate a Startup may be interdisciplinary or multi- disciplinary. However, the student must describe how they will separate and clearly distinguish their ongoing research activities as a student from the work being conducted at the Startup.

3. Students who are under incubation, but are pursuing some entrepreneurial ventures while studying, should be allowed to use their address in the institute to register their company with due permission from the institution.

4. Student entrepreneurs should be allowed to sit for the examination, even if their attendance is less than the minimum permissible percentage, with due permission from the institute.

5. HEIs should allow their students to take a semester/year break (or even more depending upon the decision of review committee constituted by the institute) to work on their Startups and re-join academics to complete the course. Student entrepreneurs may earn academic credits for their efforts while creating an enterprise. Institute should set up a review committee for review of Startup by students, and based on the progress made, it may consider giving appropriate credits for academics.

6. The institute should explore the provision of accommodation to the entrepreneurs within the campus for some period.

7. Allow faculty and staff to take off for a semester / year (or even more depending upon the decision of review committee constituted by the institute) as sabbatical/ unpaid leave/ casual leave/ earned leave for working on startups and come back. Institution should consider allowing use of its resource to faculty/students/staff wishing to establish Startup as a fulltime effort. Seniority and other academic benefits during such period may be preserved for such staff or faculty.

8. Start a part-time/full time MS/ MBA/ PGDM (Innovation, entrepreneurship and venture development) program where one can get degree while incubating and nurturing a startup company.

9. Institute will facilitate the startup activities/ technology development by allowing students/ faculty/stafftouseinstituteinfrastructureandfacilities,asperthechoiceofthepotentialentrepreneurinthefollowingmanners:

   a. Short-term/ six-month/ one-year part-time entrepreneurship training.

   b. Mentorship support on regular basis.

   c. Facilitation in a variety of areas including technology development, ideation, creativity, design thinking, fund raising, financial management, cash-flow management, new venture planning, business development, product development, social entrepreneurship, product- costing, marketing, brand-development, human resource management as well as law and regulations impacting a business.

   d. Institute may also link the startups to other seed-fund providers/ angel funds/ venture funds or itself may set up seed-fund once the incubation activities mature.

   e. License institute IPR as discussed in section 4 below.

10. In return of the services and facilities, institute may take 2% to 9.5% equity/ stake in the startup/ company, based on brand used, faculty contribution, support provided and use of institute's IPR. Other factors for consideration should be

space, infrastructure, mentorship support, seed- funds, support for accounts, legal, patents etc.

   a. For staff and faculty, institute can take no-more than 20% of shares that staff / faculty takes while drawing full salary from the institution; however, this share will be within the 9.5% cap of company shares, listed above.

   b. No restriction on shares that faculty / staff can take, if they do not spend more than 20% of office time on the startup in advisory or consultative role and do not compromise with their existing academic and administrative work / duties. In case the faculty/ staff holds the executive or managerial position for more than three months in a startup, then they will go on sabbatical/ leave without pay/ earned leave.

   c. In case of compulsory equity model, Startup may be given a cooling period of 3 months to use incubation services on rental basis to take a final decision based on satisfaction of services offered by the institute/incubator. In that case, during the cooling period, institute cannot force startup to issue equity on the first day of granting incubation support

11. The institute should also provide services based on mixture of equity, fee-based and/ or zero payment model. So, a startup may choose to avail only the support, not seed funding, by the institute on rental basis.

12. Institute could extend this startup facility to alumni of the institute as well as outsiders.

13. Participation in Startup related activities need to be considered as a legitimate activity of faculty in addition to teaching, R&D projects, industrial consultancy and management duties and must be considered while evaluating the annual performance of the faculty. Every faculty may be encouraged to mentor at least one startup.

14. Product development and commercialization as well as participating and nurturing of startups would now be added to a bucket of faculty-duties and each faculty would choose a mix and match of these activities (in addition to minimum required teaching and guidance) and then respective faculty are evaluated accordingly for their performance and promotion.

15. Institutions might also need to update/change/revise performance evaluation policies for faculty and staff as stated above.

16. Institute should ensure that at no stage any liability accrues to it because of any activity of any startup.

17. Where a student/ faculty startup policy is pre-existing in an institute, then the institute may consider modifying their policy in spirit of these guidelines.

ProductOwnershipRightsforTechnologiesDevelopedatInstitute

|2|

1. When institute facilities / funds are used substantially or when IPR is developed as a part of curriculum/ academic activity, IPR is to be jointly owned by inventors and the institute.

   a. Inventors and institutes could together license the product / IPR to any commercial organization, with inventors having the primary say. License fees could be either / or a mix of

      I. Upfront fees or one-time technology transfer fees

      II. Royalty as a percentage of sale-price

      III. Shares in the company licensing the product

   b. An institute may not be allowed to hold the equity as per the current statute, so SPV may be requested to hold equity on their behalf.

   c. If one or more of the inventors wish to incubate a company and license the product to this company, the royalties would be no more than 4% of sale price, preferably 1 to 2%, unless it is pure software product. If it is shares in the company, shares will again be 1% to 4%. For a pure software product licensing, there may be revenue sharing to be mutually decided between the institute and the incubated company.

2. On the other hand, if product/ IPR is developed by innovators not using any institute facilities, outside officehours(forstaffandfaculty)ornotasapartofcurriculumbystudent,thenproduct/IPRwillbeentirelyownedbyinventorsinproportiontothecontributionsmadebythem.Inthiscase,inventorscandecidetolicensethetechnologytothirdpartiesorusethetechnologythewaytheydeemfit.

3. If there is a dispute in ownership, a minimum five membered committee consisting of two facultymembers(havingdevelopedsufficientIPRandtranslatedtocommercialization),twooftheinstitute'salumni/industryexperts(havingexperienceintechnologycommercialization)andonelegaladvisorwith experience in IPR, will examine the issue after meeting the inventors and help them settle this,hopefullytoeverybody'ssatisfaction.Institutecanusealumni/facultyofotherinstitutesasmembers,iftheycannotfindsufficientlyexperiencedalumni/facultyoftheirown.

4. InstituteIPRcellorincubationcenterwillonlybeacoordinatorandfacilitatorforproviding servicestofaculty,staffandstudents.Theywillhavenosayonhowtheinventioniscarriedout,howitispatentedorhowitistobelicensed.Ifthe instituteistopayforpatentfiling,theycanhaveacommitteewhichcanexamine whether the IPR is worth patenting. The committee should consist of faculty who haveexperience and excelled in technology translation. If inventors are using their own funds or non-institutefunds,thentheyaloneshouldhaveasayinpatenting.

5. All institute's decision-making body with respect to incubation / IPR / technology-licensing willconsist of faculty and experts who have excelled in technology translation. Other faculty in thedepartment / institute will have no say, including heads of department, heads of institutes, deans orregistrars.

6. Interdisciplinaryresearchandpublicationonstartupsandentrepreneurshipshouldbepromotedbytheinstitutions.

Organizational Capacity, Human Resources and Incentives

1. Instituteshouldrecruitstaffthathaveastronginnovationandentrepreneurial/industrial experience,behaviourandattitude.ThiswillhelpinfosteringtheI&Eculture.
   a. Some of the relevant faculty members with prior exposure and interest should be deputed for training to promote I&E.
   b. To achieve better engagement of staff in entrepreneurial activities, institutional policy on career development of staff should be developed with constant upskilling.
2. Facultyanddepartmentsoftheinstitutesmustworkincoherenceandcross-departmentallinkagesshould be strengthened through shared faculty, cross-faculty teaching and research in order to gainmaximumutilizationofinternalresourcesandknowledge.
3. Periodicallysomeexternalsubjectmatterexpertssuchasguestlecturersoralumnicanbeengagedforstrategicadviceandbringinginskillswhicharenotavailableinternally.
4. Facultyandstaffshouldbeencouragedtodocoursesoninnovation,entrepreneurshipmanagementandventuredevelopment.
5. Toattractandretainthe rightpeople,instituteshoulddevelopacademicandnon-academic incentives and reward mechanisms for all staff and stakeholders that actively contribute and support entrepreneurship agenda and activities.
   a. The reward system for the staff may include sabbaticals, office and lab space for entrepreneurial activities, reduced teaching loads, awards, training, etc.
   b. The recognition of the stakeholders may include offering use of facilities and services, strategy for shared risk, as guest teachers, fellowships, associateships, etc.
   c. A performance matrix should be developed and used for evaluation of annual performance

Creating Innovation Pipeline and Pathways for Entrepreneurs at Institute Level

1. To ensure exposure of maximum students to innovation and pre incubation activities at their early stage and to support the pathway from ideation to innovation to market, mechanisms should be devised at institution level.
   d. Spreading awareness among students, faculty and staff about the value of entrepreneurship and its role in career development or employability should be a part of the institutional entrepreneurial agenda.

123

e.   Students/ staff should be taught that innovation (technology, process or business innovation) is a mechanism to solve the problems of society and consumers. Entrepreneurs should innovate with a focus on the market niche.

f.   Students should be encouraged to develop entrepreneurial mindset through experiential learning by exposing them to training in cognitive skills (e.g. design thinking, critical thinking, etc.), by inviting first generation local entrepreneurs or experts to address young minds. Initiatives like idea and innovation competitions, hackathons, workshops, bootcamps, seminars, conferences, exhibitions, mentoring by academic and industry personnel, throwing real life challenges, awards and recognition should be routinely organized.

g.   To prepare the students for creating the Startup through the education, integration of education activities with enterprise-related activities should be done.

2. The institute should link their Startups and companies with a wider entrepreneurial ecosystem and by providing support to students who show potential, in pre-startup phase. Connecting student entrepreneurs with real life entrepreneurs will help the students in understanding real challenges which may be faced by them while going through the innovation funnel and will increase the probability of success.

3. The institute should establish Institution's Innovation Councils (IICs) as per the guidelines of MHRD's Innovation Cell and allocate appropriate budget for its activities. IICs should guide institutions in conducting various activities related to innovation, startup and entrepreneurship development. Collective and concentrated efforts should be undertaken to identify, scout, acknowledge, support and reward proven student ideas and innovations and to further facilitate their entrepreneurial journey.

4. For strengthening the innovation funnel of the institute, access to financing must be opened for the potential entrepreneurs.

    a. Networking events must be organized to create a platform for the budding entrepreneurs to meet investors and pitch their ideas.

    b. Provide business incubation facilities: premises at subsidized cost. Laboratories, research facilities, IT services, training, mentoring, etc. should be accessible to the new startups.

    c. A culture needs to be promoted to understand that money is not FREE and is risk capital. The entrepreneur must utilize these funds and return. While funding is taking risk on the entrepreneur, it is an obligation of the entrepreneur to make every effort possible to prove that the funding agency did right in funding him/ her.

5. Institute must develop a ready reckoner of Innovation Tool Kit, which must be kept on the homepage on institute's website to answer the doubts and queries of the innovators and enlisting the facilities available at the institute.

NormsforFacultyStartups

1. For better coordination of entrepreneurial activities, norms for faculty to do startups should be created by the institutes. Only those technologies should be taken for faculty startups which originate from within the same institute.
    a. The role of faculty may vary from being an owner/ direct promoter, mentor, consultant or as on-board member of the startup.
    b. Institutes should work on developing a policy on 'conflict of interests' to ensure that the regular duties of the faculty don't suffer owing to his/her involvement in the startup activities.
    c. Faculty startup may consist of faculty members alone or with students or with faculty of other institutes or with alumni or with other entrepreneurs.
2. In case the faculty/ staff holds the executive or managerial position for more than three months in a startup, they will go on sabbatical/ leave without pay/ utilize existing leave.
3. Faculty must clearly separate and distinguish on-going research at the institute from the work conducted at the startup/ company.
4. In case of selection of a faculty Startup by an outside national or international accelerator, a maximum leave (as sabbatical/ existing leave/ unpaid leave/ casual leave/ earned leave) of one semester/ year (or even more depending upon the decision of review committee constituted by the institute) may be permitted to the faculty.
5. Faculty must not accept gifts from the startup.
6. Faculty must not involve research staff or other staff of institute in activities at the startup and vice-versa.
7. Human subject related research in startup should get clearance from ethics committee of the institution.

Pedagogy and Learning Interventions for Entrepreneurship Development

1. Pedagogy and Learning Interventions for Entrepreneurship Development
    a. A diversified approach should be adopted to produce desirable learning outcomes, which should include cross disciplinary learning using mentors, labs, case studies, games, etc. in place of traditional lecture-based delivery.
    b. Student clubs/ bodies/ departments must be created for organizing competitions, bootcamps, workshops, awards, etc. These bodies should be involved in institutional strategy planning to ensure enhancement of the student's thinking and responding ability.

    c.   Institutes should start an annual 'INNOVATION & ENTREPRENEURSHIP AWARD' to recognize outstanding ideas, successful enterprises and contributors for promoting innovation and enterprises ecosystem within the institute.

    d.   For creating awareness among the students, the teaching methods should include case studies on business failure and real-life experience reports by startups.

    e.   Tolerating and encouraging failures: Our systems are not designed for tolerating and encouraging failure. Failures need to be elaborately discussed and debated to imbibe that failure is a part of life, thus helping in reducing the social stigma associated with it. Very importantly, this should be a part of institute's philosophy and culture.

2. Innovation champions should be nominated from within the students/ faculty/ staff for each department/ stream of study.

    a.   Entrepreneurship education should be imparted to students at curricular/ co-curricular/ extra- curricular level through elective/ short term or long-term courses on innovation, entrepreneurship and venture development. Validated learning outcomes should be made available to the students.

    b.   Integration of expertise of the external stakeholders should be done in entrepreneurship education to evolve a culture of collaboration and engagement with external environment.

    c.   In the beginning of every academic session, institute should conduct an induction program about the importance of I&E so that freshly inducted students are made aware about the entrepreneurial agenda of the institute and available support systems. Curriculum for entrepreneurship education should be continuously updated based on entrepreneurship research outcomes. This should also include case studies on failures.

    d.   Industry linkages should be leveraged for conducting research and survey on trends in technology, research, innovation, and market intelligence.

    e.   Sensitization of students should be done for their understanding on expected learning outcomes.

    f.   Student innovators, startups, experts must be engaged in the dialogue process while developing the strategy so that it becomes need based.

    g.   Customized teaching and training materials should be developed for startups.

    h.   It must be noted that not everyone can become an entrepreneur. The entrepreneur is a leader, who would convert an innovation successfully into a product, others may join the leader and work for the startup. It is important to understand that entrepreneurship is about risk taking. One must carefully evaluate whether a student is capable and willing to take risks.

P26

3. Pedagogical changes need to be done to ensure that maximum number of student projects and innovations are based around real life challenges. Learning interventions developed by the institutes for inculcating entrepreneurial culture should be constantly reviewed and updated.

Collaboration, Co-creation, Business Relationships and Knowledge Exchange

1. Stakeholder engagement should be given prime importance in the entrepreneurial agenda of the institute. Institutes should find potential partners, resource organizations, micro, small and medium- sized enterprises (MSMEs), social enterprises, schools, alumni, professional bodies and entrepreneurs to support entrepreneurship and co-design the programs.
   a. To encourage co-creation, bi-directional flow/ exchange of knowledge and people should be ensured between institutes such as incubators, science parks, etc.
   b. Institute should organize networking events for better engagement of collaborators and should open the opportunities for staff, faculty and students to allow constant flow of ideas and knowledge through meetings, workshops, space for collaboration, lectures, etc.
   c. Mechanisms should be developed by the institute to capitalize on the knowledge gained through these collaborations.
   d. Care must be taken to ensure that events DON'T BECOME an end goal. First focus of the incubator should be to create successful ventures.
2. The institute should develop policy and guidelines for forming and managing relationships with external stakeholders including private industries.
3. Knowledge exchange through collaboration and partnership should be made a part of institutional policy and institutes must provide support mechanisms and guidance for creating, managing and coordinating these relationships.
   a. Through formal and informal mechanisms such as internships, teaching and research exchange programmes, clubs, social gatherings, etc., faculty, staff and students of the institutes should be given the opportunities to connect with their external environment.
   b. Connect of the institute with the external environment must be leveraged in form of absorbing information and experience from the external ecosystem into the institute's environment.
   c. Single Point of Contact (SPOC) mechanism should be created in the institute for the students, faculty, collaborators, partners and other stakeholders to ensure access to information.

d. Mechanisms should be devised by the institutions to ensure maximum exploitation of entrepreneurial opportunities with industrial and commercial collaborators.

e. Knowledge management should be done by the institute through development of innovation knowledge platform using in-house Information & Communication Technology (ICT) capabilities.

Entrepreneurial Impact Assessment

1. Impact assessment of institute's entrepreneurial initiatives such as pre-incubation, incubation, entrepreneurship education should be performed regularly using well defined evaluation parameters.

   a. Monitoring and evaluation of knowledge exchange initiatives, engagement of all departments and faculty in entrepreneurial teaching and learning should be assessed.

   b. Number of startups created, support system provided at the institutional level and satisfaction of participants, new business relationships created by the institutes should be recorded and used for impact assessment.

   c. Impact should also be measured for the support system provided by the institute to the student entrepreneurs, faculty and staff for pre-incubation, incubation, IPR protection, industry linkages, exposure to entrepreneurial ecosystem, etc.

2. Formulation of strategy and impact assessment should go hand in hand. Information on impact of the activities should be actively used while developing and reviewing the entrepreneurial strategy.

3. Impact assessment for measuring the success should be in terms of sustainable social, financial and technological impact in the market. For innovations at pre-commercial stage, development of sustainable enterprise model is critical. COMMERCIAL success is the ONLY measure in the long run.

Epilogue and Appeal

This policy .....

====== Last updated 202410230815by Suhas Gajre ======

Subject: Research and Development, Innovation, Advancement, Networking, Collaboration, and Excellence (RADIANCE): Research Incentives for Faculty Members.

Ref: (1) Presentation by Dean (R&D) in the meeting with committee Members on 1/10/2024

(2) Presentation by Principal in the meeting with Deans and Head of department on 04/10/2024

(3) Approved in the Meeting of Finance Committee held on 9/10/2024 (Item No 7.1)

(4) Approved in Meeting of BoG held on 8/11/2024.at GCOE, Jalgaon (Item No 5(I))

1. R & D Cell Overview

R & D Cell which aims to nurture research culture in the institute by promoting research in the emerging frontier areas of Science, Engineering, and Technology and interdisciplinary research. It encourages the students and faculty to undertake the research in frontier areas including multidisciplinary fields to create budding technocrats by promoting students participating in conferences, seminars, workshops, project competition, and various technical events etc. In order to promote research and development activities, the institute extends its full support to students and faculty. Institute offers full or partial financial support to the faculty members for all innovative research ideas, proposals, trainings, and publications.

The Policy for performance based incentives, financial assistance for career development of the faculty as well as research and development activities of the Institute aims to nurture sustainable academic and research culture in the emerging areas and to develop research-capability of UG, PG, PhD. degree candidates and faulty of the Institute.

2. Objectives

GCOEJ's objective is to establish itself as a leader in engineering research in India. To achieve this, a comprehensive research strategy has been put in place relating to:

(1) Attracting and motivating full-time faculty with the potential to do meaningful research that will be recognized by their peers.
(2) Providing faculty with the working environment, funding, and other support so they can realize their full potential as researchers in their respective fields.
(3) Ensuring that the research supported by GCOE Jalgaon is effectively and

129

widely disseminated.

(4) Establishing institutional collaborations and joint programs within India and abroad.

(5) To create research friendly environment in the institute among faculty they are encouraged to undergo training programs like seminars, workshops, and sensitization programs to develop research culture of institute.

(6) Modernizing the existing laboratories with additional experimental research set ups/instruments and technology for utilizing the labs for research activity.

(7) To provide the in-house funding for R & D projects mentioning the guidelines and targets to achieve the expected outcome of the projects proposed.

(8) To undertake research activities via research projects offered by funding agencies like DST, SERB, AICTE, UGC,CSIR, DRDO, ISRO, RCI, etc.

(9) To establish centers of excellence and innovation labs to promote research activities in frontier areas of science and technology to create research conducive environment.

(10) To encourage faculty to publish technical papers/research papers in peer reviewed National and International Conferences/Journals.

(11) To encourage and facilitate financial support to the faculty to apply for the patents for their innovative findings.

To achieve this following scheme like Research and Development promotion Policy (RADIANCE): Research Incentives for Faculty Members for research is devised. These expenditures will be paid through Institute fund.

3. Research and Development, Innovation, Advancement, Networking, Collaboration, and Excellence (RADIANCE): Research Incentives for Faculty Members.

Every regular faculty member is entitled for RADIANCE of Rs. 5.00 Lakh for a block period of the three academic years on the reimbursement basis.

1. Block Period:
   a) Duration of block period is three academic years
   b) Duration of one academic year shall be considered as one year (1stJuly of current year to 30thJune of next year) for ex. 01.07.2024 to 30.06.2025
2. Grant Allocation
   a) **Rs. 5.00 Lakhs for a block period of three years.**
   b) If a faculty member joins the institute or retires from the institute service in between a block period, he / she shall be entitled to this allowance on pro-rata basis.

The list of activities and the norms for incurring expenditure under RADIANCE Policy: Research Incentives for Faculty Members are given below:

A. R &D Cell Activities under RADIANCE
1. Publishing and presenting papers (oral presentation only) in National/International Conferences, attending workshop, STTPs, Seminars, Symposiums, Conventions, Conclaves etc.

130

2. Acquiring Patents: Applications for Intellectual Property Rights such as Patents, Copyright etc.
3. Visiting Indian, Foreign University, Institution, Organization, Visiting industrial research centre for the purpose of research interaction, technical discussions, technical exhibitions, for carrying out experimental work / procured services at other institution.
4. Acquiring Membership of Professional Societies, both National and International.
5. Purchase of Books and subscription to Research Journals.
6. Expenses related to course material preparation, teaching aids, book writing.
7. Ph.D. Registration, Progress seminars, and Pre-submission seminars.
8. Tracking of data of research publications, area of research, citations, h-index in refereed journals.
9. Checking Plagiarism of research paper, Ph.D-theses with authentic software.
10. Organizing programs for Research Methodology, IPR, Paper presentation, Guest lecturers etc.
11. Submission of research proposals to the external funding agencies.
12. Dissemination of information about funding agencies to the entire faculty every year.
13. Issuing Standard Operating Procedures (SOPs) for Research, Innovation, Plagiarism, Consultancy etc.
14. Any other item with prior approval from competent authorities.

B. General Guidelines: Activities will be permitted in accordance with the institute norms as applicable. In addition, the following guidelines are also specified:
1. Attending National, International Conferences, Workshops, Symposium, STTPs, Seminars, Conventions, Conclaves requires prior approval.
2. Period of visit outside the Institution not to exceed 10 working days in an academic year. This does not apply to visit during vacation. However, the Principal can deny permission in case of emergency.
3. It is mandatory on the part of faculty member to submit a report of activities carried out, and deliver a seminar in the department (wherever applicable) before making claim for reimbursement of expenditure incurred.
4. State Government norms (norms approved by BOG) will be applicable for TA/DA. Expenditure towards TA/DA, registration fee, visa fee etc. for National, International Conferences, workshops, Symposia, STTPs, Seminars, Conventions, Conclaves and Visits for research interaction will be up to a maximum of 50% of the RADIANCE.
5. For the purchase of books not to exceed Rs. 10000/- per academic year. Purchase of books costing more than Rs. 10000/- requires prior approval of the Principal.
6. The reimbursement made in this regard shall be subject to Audit observation if excess or not permissible, will be recovered as a lump sum from the individual concerned.
7. In case, if any faculty leaves (not applicable for retirement/VRS) the institute before three years, the reimbursed amount shall be recovered in lump sum at the time of his/her relieving from the institute.
8. The faculty members who are on deputation, QIP, Sabbatical are NOT entitled for

|3|

claiming reimbursement under the RADIANCE funds during their absence from GCOE, Jalgaon.

9. Supervisor and Ph.D. scholar must submit at least one research proposal to the external funding agency every year in the name of the Institute as place of research work.
10. HoD shall maintain up-to-date data regarding completed research projects, ongoing research projects funding agencies and other resources such as AICTE, DST, UGC, CSIR, DRDO etc.
11. Institute shall enter into MoU's with research Institutions such as IITs, NITs, ICAR, CSRI, NEERI etc.
12. The Proposal shall be routed through Dean (R&D), HOD and Principal of the Institute.
13. Each HOD must apply to UGC/DST/AICTE etc. for permission to organize indexed conference every year in which faculty/Students wish to publish their research work in reputed journals like SCI, Springer, Elsevier, ASME,I EEE etc.
14. Author must submit plagiarism report to the Head of the Institute duly authenticated before submitting the research paper.
15. The faculty must deliver a presentation to the faculty and final year students of the department.
16. Attendance Sheet, Certificate of participation and summary should be submitted to Dean (R&D) otherwise leave count will not be settled.
17. Advance if granted, should settle within seven days from the date of return otherwise.
18. Faculty should not infringe IPR of any individual or any organization.
19. A Copy of Conference proceedings or any book presented by organizer should be submitted to the departmental library and submission slip should be attached to the bills for claim.
20. Faculty shall avoid simultaneous submission of manuscripts or abstracts at multiple platforms without the approval of the editor.
21. The facility of reimbursement is extended normally to the first author.
22. If claim is submitted by author other than first, NOC from other author is necessary.
23. Claim of reimbursement should be submitted within 2 Week after the Event/Activity.
24. No Advance will be paid to the faculty but the faculty will reimburse approved expenditure within 2 weeks after he/she submits the required bills.

C. Operating Procedure for RADIANCE

Sr. No	Particulars/ Purpose	Procedure
01	To attend the National Conferences preferably on the average of one per year(Preferably conferences organized by Premier Institute like IITs ,IISc, ISCER, NITs etc. and Industrial Research Organization)	For attending national conferences, the interested faculty member should apply on prescribed proforma (Annexure-I) through HOD to Dean (R&D) at least 10 days in advance along with a copy of the letter of invitation/ acceptance, Conference brochure and estimated expenses on account of travel including local travel, registration fee, Boarding and lodging charges.HOD of the concerned department shall maintain such record in respect of each faculty member in appropriate register. The faculty member will also be required to fill a proforma giving

		details of his/her participation in any of such events during the current block of RADIANCE. The proposal will be forwarded to Principal through Dean (R&D) If both of them approved it then the faculty will be permitted to the same. The faculty member will be required to claim reimbursement/ settle account prescribed proforma (Annexure-II) within two weeks after his/her return from such participation failing which his/her claim might lapse.
02	To attend the International Conferences preferably on the average of one per year (Approved list of the conference by the respective department). It is the responsibity of concerned department to prepare above mentioned list and make it available on the institute Website; else the proposal received from the faculty member of that department will not be processed further.	For attending International conferences, the interested faculty member should apply on prescribed proforma (Annexure-II) through HOD to Dean (R&D) at least 10 days in advance along with a copy of the letter of invitation/ acceptance, Conference brochure and estimated expenses on account of travel including local travel, registration fee, Visa fee, Medical Insurance, Boarding and lodging charges.HOD of the concerned department shall maintain such record in respect of each faculty member in appropriate register. The faculty member will also be required to fill a proforma giving details of his/her participation in any of such events during the current block of RADIANCE .The proposal will be forwarded to Principal through Dean (R&D) If both of them approved it then the faculty will be permitted to the same. The faculty member will be required to claim reimbursement/ settle account prescribed proforma (Annexure-IV) within two weeks after his/her return from such participation failing which his/her claim might lapse.
03	To take memberships of professional societies.	The interested faculty member can apply on prescribed proforma (Annexure-II) to Dean (R&D) with payment details/ transaction receipt and claim reimbursement within allocated budge limit under this head. Head of the concerned department shall maintain such record in respect of each faculty member in appropriate register. Dean (R&D) will decide and recommended the case.
04	Contingency expenses to purchase subject related books(Only technical books)	Entry of books purchased should be made in Central library. The faculty member can apply on prescribed proforma (Annexure-IV) to Dean (R&D) with payment details/transaction receipts and claim reimbursement within allocated budget limit under this head. Head of the concerned department shall maintain such record in respect of each faculty member in appropriate register. Dean (R&D) will decide and recommended the case.
05	Purchase of laptop	The purpose of the purchase is to empower faculty with the latest updated technical change in computational facilities. If

		faculties avail the benefit then he/she has to surrender laptop issued on his name from the department/portfolios. The laptop shall be used as a regular teaching and learning tool. The details of laptop purchased shall be entered in a separate maintained register in department. Head of the concerned department shall maintain such record in respect of each faculty member in appropriate register. The faculty member can apply on prescribed proforma (Annexure-V) to Dean (R&D) with payment details/transaction receipts and claim reimbursement within allocated budget limit under this head.

D. Financial Assistance to Faculty

A maximum of Rs. 5 lakh will be sanctioned to the faculty under RADIANCE Scheme for the block period of three consecutive academic years after approval of Finance committee and then Board of Governance of the institution. The activity wise allocation is as follows.

Sr. No.	Particulars	Registration fees and other expenditure	Reimbursement Procedure
Research Publication in Journals/Conferences*			
1	**Scopus/SCI /WoS Journal Publication** etc. but It should be published and indexed in Q1(Quartile 1) type Scopus indexing	TA/DA as per norms	Seed Money can be allotted as an incentive for the future research activities, if the publication is free of cost in Q1 journals. Prior permission and approval from BoG/HoI.
2	**Any Scopus-Indexed Journal/WoS/UGC Care Publication** etc. (other than Q1)	TA/DA as per norms	Seed Money can be allotted as an incentive for the future research activities, if the publication is free of cost in other than Q1 journals. Prior permission and approval from BoG/HoI.
3	**Scopus-Indexed/IEEE, ACM etc. National / International Conference (Participation/ Presentation / Publication)**	1st Author: 100% registration fee (Max upto Rs. 15,000/-) +TA/DA as per norms 2nd Author:50% registration fee (Max upto Rs.10,000/-) + TA/DA as per norms	Amount reimbursed upon conference participation / Presentation certificate, travel bills submission, and **proof of Scopus indexing**. Prior permission and approval from BoG/HoI.
4	**Traveling and accommodation expenses for international conferences at outside of India**	1st Author: 100% registration fee (Max upto Rs. 40,000/-) +TA/DA as per norms. The maximum total permissible expenditure shall not exceed Rs. 1,50,000/-	Only first author will be deputed if there is no exigency. Decision, Prior permission and approval from BoG/HoI. Once in a 3 years.
Patent/Copyright/IPR/Research Grant*			
5	**Indian Copyright**	1st Author: 100% registration fee (Max upto Rs.5000/-) 2nd Author: 50% registration fee (Max upto Rs.2,000/-)	Amount awarded upon receiving copyright certificate proof. (Payment receipt needed). Once in semester and prior permission from HoI.
6	**Indian Patent (Any Type)**	1st Author: 100% registration fee (Max upto Rs.10,000/-) + Exam fee (if	Amount awarded after patent Granted certificate is confirmed and after verification of genuine of work. Once

135

		any) 2nd Author: 50% registration fee (Max upto Rs.5,000/-) + Exam fee (if any)	in semester and prior permission from HoI.
7	**Other country Copyright/Patent**	Based on decision of BoG/HoI	Eligibility: Prior permission and approval from BoG/HoI.
8	Submission of research proposal and financial grant received from the external funding agencies (AICTE, DST, DRDO etc for some project)	Grant will be distributed to team (Principal investigators, Co-Principal investigators, HoI, HoD, R&D cell staff and administrative staff) as per the norms of Institute.	Amount awarded after **financial grant received from the external funding agencies and** after decision from BoG/HoI.
9	**Grant of seed money for research project/ Academic research (UG/PG) Project**	Maximum upto Rs. 50000/-	Based on research proposal/Project, Decision to be taken by BoG/HoI.
Book Chapter/Book Publication details*			
10	**Book Chapter in Scopus-Indexed**	----	Seed Money can be allotted as an incentive for the future research activities, if the publication is free of cost. Prior permission and approval from BoG/HoI.
11	**Book with ISSN Publication** (own discipline)	----	Seed Money can be allotted as an incentive for the future research activities, if the publication is free of cost. Prior permission and approval from BoG/HoI.
Attending STTP / FDP / Symposiums / Workshops / Conventions / Conclaves /Training*			
12	Any Event at National institutes such as IITs, NITs, IIMs, IISC Bangalore, ISRO, AICTE, DST, DRDO etc.	100% registration fee (Max upto Rs. 15000 +TA/DA as per norms	Eligibility: Prior permission and approval fi .n BoG/HoI. Once in a A.Y.
13	Ph.D. / Post Doc. Fee,	100% fees of Ph.D. / Post Doc. (Max up to Rs. 50,000/- per research A.Y. But max 3 years only)	Eligibility: Prior NOC from DTE. (Note: Payment receipt needed) (full tuition fee max 3 years)
14	Attending STTP / FDP /	100% registration fee (Max	Proof of Participation Certificate, Proof

136

	Symposiums /NPTEL/ Swayam courses/ IIC certificate / Workshops / Conventions / Conclaves /Training	upto Rs. 15000/-) +TA/DA	of AICTE, FDP, NPTEL, NIT, IIT, IISc etc. workshop fee receipt, TA/DA norms. Prior permission and approval from BoG/HoI. (Note: Payment receipt needed)
15	**Traveling and accommodation expenses for international** STTP / FDP / Symposiums / Workshops / Conventions / Conclaves/Training (at abroad)	1st Author: 100% registration fee (Max upto Rs. 40,000/-) +TA/DA as per norms based on decision of BoG/HoI	Only first author will be deputed if there is no exigency. Decision, Prior permission and approval from BoG/HoI. Once in a 3 years.

Faculty going for Viva / Guest Lecture/ Visit/ inspection/ audit / NAAC member/NBA member/ LIC Member/ Any (BoG/HoI Approved Committee) or attending Convocation Ceremony at outside*

16	Attending or going for Viva / Guest Lecture/ Visit/ inspection/ audit / NAAC member/NBA member/ LIC Member/ Any (BoG/HoI Approved Committee) or attending **Convocation Ceremony (for own or as a chief guest)** etc. in India or abroad.	TA/DA as per norms (if permitted by BoG/HoI)	Prior permission from BoG/HoI, after submission of attendance certificate.

Professional Memberships*

17	Professional Membership (related to own field)	100% fee for life time membership (Max upto Rs.20,000/-)	Prior permission from BoG/HoI, after submission of membership certificate

Purchase of Laptop*

18	Laptop purchase	Maximum permissible expenditure is 75,000/- (inclusive of all taxes and other expenses if any.)	Prior permission from BoG/HoI, after submission of tentative estimate.

*: Author/Faculty must be a regular faculty of Government College of Engineering, Jalgaon in any events as stated above.

3. Roles and Responsibilities of R &D Cell
1. Approval for faculty members to attend research related seminars, workshops, conferences, and paper publication.
2. Encourage and motivate faculty for adopting innovative approaches in their field of interest.
3. Implementation of reimbursement policy of the Institute.
4. Provide guidance for submitting proposals to funding agencies as required.

5. Assisting the faculty/students in writing research articles, filing patents as required.
6. Create and maintain a database regarding faculty research expertise and publications.
7. Framing rules for industrial sponsored research and consultancy on case to case basis.
8. Any other R & D related tasks as assigned by Head of Institute.
9. To enhance the Research Ecosystem of the college to preserve the code of ethics of the college while publishing.
10. To pave path for the teachers, students and researchers to collaborate for research.
11. To provide a creative atmosphere, adequate facilities and resources in which research activities thrives amongst faculties and students.
12. To increase the quantity and quality of our research outcomes.
13. To establish links with various R&D organizations and funding agencies.

4. Expected Outcomes of R&D Cell

The significant factors indicating potential growth in the research activities includes the enhancement in the research publications in peer reviewed journals, Research Projects/grants, Patents, Collaborations, Doctoral and FDP programs. R & D cell will monitor the following major activities:

1. Enhanced number of research proposals, quality publications and patents.
2. Enhanced interaction with R&D organizations and institutes
3. Improved quality of UG and PG project
4. Enhanced involvement of faculty to solve industrial and societal problems.
5. Enhanced participation of faculty in national and international innovation events.

05/12/2024

(Dr. Suhas S .Gajre)
Principal
Government College of Engineering, Jalgaon

138

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON
(NAAC accredited An Autonomous Institute of Government of Maharashtra)
Approved by AICTE, New Delhi and affiliated to KBCNMU, Jalgaon
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Perspective Plan of the Institute (2018-19 to 2022-23)

INSTITUTIONAL PROGRAMS

UG Programmes				
Sr No	Name of Programme	Intake	Year of Establishment	NBA accreditation	NAAC accreditation
1	Mechanical Engineering	60	1996	**Accredited 2018-2021**	**Accredited 2018-2023**
2	Electronics and Telecomm. Engineering	60	1996	**SAR Submitted**	
3	Instrumentation Engineering	60	1996	**Accredited 2018-2021**	
4	Electrical Engineering	60	2007	Not applied	
5	Computer Engineering	60	2007	Not applied	
6	Civil Engineering	60	2010	NA	
PG Programme				
1	Electronics and Telecomm. Engg (Digital Systems)	18	2010	NA	

VISION
"Globally Accepted Engineers with Human Skills"

MISSION
- To promote overall development of students by creating excellent learning environment.
- To develop undergraduate and postgraduate programmes through effective linkages with industry, academia and alumni."
- To promote services to community and revenue generation for sustainable development

139

OBJECTIVES

- To achieve academic excellence through academic reforms.
- To offer need based UG/PG programs.
- To upgrade the curriculum content to pace with recent technical advancements.
- To implement effective and time bound examination system for proper evaluation.
- To establish suitable mechanism for proper liaison with stake holders.
- To make institutional administration more efficient and dynamic
- To establish a system for effective utilization of funds for sustainable growth of the institute.

SHORT TERM GOALS AND INDICATORS

- Progressive implementation of academic autonomy.
- To enhance placement through campus interviews.
- To organize continuing education program.
- To start research and additional PG program.
- To strengthen Industry Institute Interaction (III).
- To strengthen the existing laboratories by adding latest hi-tech equipments.
- To strengthen in-house sports facilities.
- To enrich library facility towards the knowledge center.

LONG TERM GOALS AND INDICATORS

- To obtain full autonomy
- To make the institute, a center of excellence for technical education
- To develop R& D conducive environment by establishing additional research laboratories
- To impart need based training through state of art academic programs
- To strengthen Industry Institute Interaction (III) cell
- To enhance Internal Revenue Generation (IRG) and to promote services to community.
- To develop infrastructural facilities as per master plan

140

ACADEMICS

2019-2023	
Activity: Academics	Deployment
Academic reforms: Progressive implementation of Autonomy	Since 2014 Autonomy is progressive and UGC and KBCNMU conferred and extended autonomy till AY 2026.
NBA Accreditation for E&TC and other UG and PG courses.	NBA Accreditation for Mechanical and Instrumentation departments till June 2021
Increase in intake: Mechanical 60 to 120	Institute has plan for it in coming academic year.
New PG Programs: in Instrumentation Engg. (Electrical and Control System), Mechanical Engg.	New PG Courses in Instrumentation Engg. (Electrical and Control System), Mechanical Engg. Approved by AICTE from AY 2019 and KBCNMU AY 2021.
Seek NMU recognition to Research Laboratory: ME, E&Tc and CE	Total Five department ME, E&Tc , CE, IE, EE Research Laboratory are recognized by KBCNMU, Jalgaon.
Seek NMU recognition to Research Laboratory: IE, EE and CSE	
Networking with other Institutions/Industries for UG/PG student projects	Institute has MOU and Networking with other Institutions/Industries for academic commitments and training of students.
E-learning Broadcasting	Institute has E-learning resources and tools.
Seek 12(B) certification from UGC, New Delhi	It is under progress
Centre of Excellence: At least in 01per department	Institute has proposed Centre of Excellence under PM USHA scheme.

141

FACULTY DEVELOPMENT

2019-2023	
Activity: Faculty Development	Deployment
Recruiting all vacant faculty positions	Government recruitment process by MPSC is under process
Faculty and Technical and administrative posts creation as per Autonomy requirement	Proposals are prepared and submitted to higher authorities for approval
CAS promotions for faculty	Since the CAS schemes are implemented by DTE. Proposals are forwarded to higher authorities for approval. Institute implements the approved promotions as per rules.
Implementation of Faculty Incentive Scheme	It is implemented as per autonomy rules.
Seed money allotment for research activities	It is implemented as per Teachers autonomy rules.
Subject area Trainings for faculty and Technical staff	Trainings are organized as well as faculty and Technical staffs are deputed for trainings in other reputed organizations.
Pedagogical Trainings for faculty and Technical staff	Trainings are organized as well as faculty and Technical staffs are deputed for trainings in other reputed organizations.
Administrative staff, Technical staff and Non-technical staff: skill development program	Trainings are organized for staff and are deputed for trainings in other reputed organizations.
Faculty management capacity Enhancement training program at IIM, IIT, ISB etc.	As per training need analysis the faculties are deputed for management capacity Enhancement training program at IIM and the premier institutions.

142

Recruitment of Professor Emeritus/Adjunct faculty	Adjunct faculties are appointed.
Faculty and staff exchange program with Industry and Research organization	Institute has MoU with Industry and Research organization.

RESEARCH

2019-2023	
Activity : Research	Deployment
Establishment of basic R&D Laboratory	Total Five department ME, E&Tc , CE, IE, EE Research Laboratory are recognized by KBCNMU, Jalgaon.
R&D labs for new PG programs in IE, ME	
R&D labs for ME, E&TC	
State of art Lab set up	Each department has State of art Laboratories established under TEQIP II and III
Qualification up gradation of faculties	Faculties are continuously deputed for Qualification up gradation under QIP scheme of AICTE.
Visits to Industry and Government Research centres (Specifically for SE/TE Students Groups identified on scholastic and personal interaction level to work)	Visits to Industry and Government Research centres are organised as a part of curriculum regularly.

INDUSTRY INTERACTION

2019-2023	
Activity: Industry Interaction	Deployment
To increase Placement Activity. To achieve 100% placement of all eligible students at the end of five years.	Institute has a very good placement records with more than 60% students placed every year amongst the eligible students as per policies of various industries. Every year there a

143

10% increase in placement each year.	significant increase in placements.
To establish at least three Industry sponsored research laboratories.	It is under progress
To arrange Industry / alumni meet every year and involve them in development of institute.	Every year Industry / alumni meet is organised for development of institute.
To sign more MOU with leading industries and institutions	Institute has MoU with Industry and Research organization.
Strengthening BOS and Academic council by nominating Industry experts	At least two Industry experts are appointed on BOS of each department and Academic council

SOCIETY/SERVICES

2019-2023	
Activity : Society/Services	Deployment
Technology transfer to society for mutual benefit.	In progress, IIC is striving hard for the same.
Continuing Education Program	Institute had organized online/offline CEP for faculty members and most of the faculty /staff members attended the CEP organized by this or other institute.(Details furnished in 6.3.2)
Community Services Program (CSP)	Institute had organized variety of programs for nearby community. (The details are furnished in criteria III)
NSS and Counseling to local organization and public.	Institute has NSS cell which has adopted a village and several programs are being conducted for welfare of citizens of the village.
Organizing Technical festivals with participation of Alumni and parents	Institute organizes Technical festivals like Tech-Carvan every year.
Consultancy to Industry	Institute has good consultancy practice for industry and government organizations. The institute provides testing facilities under third party testing and audit as per requirement of the organizations.

144

Adoption of Village	Institute has NSS cell which has adopted a village and several programs are being conducted for welfare of citizens of the village.
Arranging exhibition for stakeholders and public	Institute organizes Technical festivals like Tech-Carvan every year and exhibition for stakeholders and public is part of it.

This Perspective plan covers activity implementation in details. The approximate expenditure to be incurred will be worked out separately. The funds required for the implementation of the plan will be raised through various governments' schemes like TEQIP, various proposals to AICTE/UGC/DST/DOE etc. and the fee income of the institute. It is also planned to take participation of industry through scheme like **"Corporate Social Responsibility (CSR)"** since institute has gained autonomous status from July 2014 from UGC and NMU, Jalgaon.

Sd
Principal,
Government College of Engineering, Jalgaon

145

No.: GCOEJ/IQAC/2024/3953   Date: 5/12/2024

Office order

To strengthen the assessment and accreditation of Higher Education Institutions, particularly in alignment with the NEP 2020, the National Assessment and Accreditation Council (NAAC) has revised the accreditation assessment criteria. To comply with the updated assessment norms, it is necessary to revise the Institutional Development Plan (IDP)/Perspective Plan. The following committee is hereby constituted to prepare the IDP/Perspective Plan for this institute and present it to the IQAC for approval:

Sr. No.	Name	Designation
1	Dr. G.M. Malwatkar	Chairman
2	Dr. M.K. Sonpimple	Member
3	Shri. V.T.Patil	Member
4	Dr. Y.P. Dhote	Member
5	Shri. A.M. Dongardive	Member
6	Prof. S.O. Dahad	Member Secretary

(Dr. Suhas S. Gajre)
Principal

Copy to:
1. All members
2. IQAC Office
3. Establishment

146

156

NAAC Reforms 2024: Important Announcement

1. The National Education Policy 2020 of Government of India proposed that the accreditation system shall cover all the HEIs by developing and using appropriately different and relevant norms across the range of HEIs.

2. Subsequently, the report of the Dr. Radhakrishnan Committee on transformative reforms in accreditation approved by the Government of India recommended that the accreditation system will specify phased benchmarks for all HEIs to achieve set levels of quality through a new accreditation process.

3. Consequently, as per the approved recommendations of the Dr. Radhakrishnan Committee:

   A. In the first stage, Binary accreditation process has been taken up and the same is in the final stage of consultations with relevant stakeholders. The scheme details will be announced before 30th June 2024.

   B. Interested HEIs who are not accredited may apply for binary accreditation from July 2024. Those who are already accredited shall continue to hold the levels with the grade till its validity exists and may apply for Maturity Based Graded Levels (MBGL) from January 2025.

   C. HEIs whose IIQA or SSR applications are under process in the present methodology (RAF) may opt for Binary accreditation but not later than 31 August 2024 if they wish to do so. Such HEIs may also opt for MBGL to be launched in January 2025

   D. HEIs are permitted to submit their IIQA and/or SSR as per the present methodology (RAF) until 30th June 2024.

   E. HEIs with valid grade as per the present accreditation methodology (RAF) whose validity is expiring between 30 June 2024 and date of launch of MBGL shall be extended till the launch of MBGL.

147

CYCLES OF ACCREDITATION

Institutions, which would like to make an improvement in the accredited status, may volunteer for Re-assessment, aft least one year but not after the completion of three years. The manual to be followed for re-assessment is the sam Assessment and Accreditation. However, the institution shall make specific responses based on the recommendatic peer team in the first assessment and accreditation report, as well as the specific quality improvements made by the in: structure would be the same as that for Assessment and Accreditation.

When an institution undergoes the accreditation process for the first time it is referred to as Cycle 1 and the consecut periods as Cycles 2, 3, etc.

For Cycle 1, please refer Process of accreditation

For Cycles 2, 3, etc. the following are essential:

- IQAC to be functional
- Timely submission of AQARs annually
- Institutions to submit IIQA, during the last 6 months of validity period subject to the fulfilment of other conditions spec from time to time for the purpose.
- Other steps remain the same as first cycle

ASSESSMENT OUTCOME

The final result of the Assessment and Accreditation exercise will be an ICT based score, which is a combination of evalua and quantitative metrics. This will be compiled as a document comprising three parts.

1. Peer Team Report
- Section 1: Gives the **General Information** of the institution and its context.
- Section 2: Gives Criterion wise analysis based on peer evaluation of qualitative indicators. Instead of reporting with bullet a **qualitative, descriptive assessment report** based on the Peer Team's critical analysis presenting strengths and weakn each Criterion
- Section 3: Presents an **Overall Analysis** which includes Institutional Strengths, Weaknesses, Opportunities and Challenges
- Section 4: Records **Recommendations for Quality Enhancement of the Institution** (not more than **10** major ones).

2. Graphical representation based on Quantitative Metrics (Q_nM)
This part will be a **System Generated Quality Profile** of the HEI based on statistical analysis of quantitative indicators (quality indicator framework). Graphical presentation of institutional features would be reflected through synthes indicators.

3. Institutional Grade Sheet
Contains the **Institutional Grade Sheet** which is based on qualitative indicators, quantitative indicators and student satisfa existing calculation methods but it will be generated by a software.

The above three parts will together form "NAAC Accreditation Outcome" document. It is mandatory for the HEIs to display institutional website apart from NAAC hosting it on its website.

148

Range of institutional Cumulative Grade Point Average (CGPA)	Letter Grade	Status
3.51 - 4.00	A++	Accredited
3.26 - 3.50	A+	Accredited
3.01 - 3.25	A	Accredited
2.76 - 3.00	B++	Accredited
2.51 - 2.75	B+	Accredited
2.01 - 2.50	B	Accredited
1.51 - 2.00	C	Accredited
<= 1.50	D	Not accredited

With Effect From July 2017

Note:

- Final CGPA value is rounded off to two decimal points
- The Grading pattern has been prepared as inclusive class intervals i.e., both the upper limit and lower limit are included in the respective cla interval
- For example 3.01 - 3.25 class interval is assigned 'A' Grade i.e., any value falling between class intervals; and both 3.01 and 3.25 are include the same class interval;
- But the values below 3.01 or above 3.25 are not included in the same class interval.
- If the third decimal point is more than or equal to 5, then the second decimal point will be increased by one; For example, CGPA of 3.005, 3.0 3.007, 3.008 and 3.009 are rounded off to CGPA 3.01.
- If the third decimal point is less than or equal to 4, then second decimal point will be retained as it is; For example, CGPA of 3.000, 3.001, 3.0 3.003and 3.004 are rounded off to CGPA 3.00
- This analogy is applicable to all scores and grades adopted in the Grading pattern and in CGPA scoring pattern.

149

The specifics of the proposed reforms given in Section 9 of this report are summarised below:

1 Transition from the present 8-point grading system of NAAC to an adapted Binary Accreditation System viz.
- 'Accredited',
- 'Awaiting Accreditation' (for those who are close to the threshold level),
- 'Not Accredited' (for those who are far below the standards for accreditation).

2 Encourage Accredited Institutions to raise their bar, evolve in-depth or in-breadth in disciplines from 'Level 1' to 'Level 4' Institutions of National Excellence, and then to 'Level-5' i.e. Institutions of Global Excellence for Multi-Disciplinary Research and Education.

3 Enable Choice-based Ranking System for diverse stakeholders (students, funding agencies, industries etc.).

4 Amalgamate Programme-Accreditation and Institutional-Accreditation, considering their inter-dependency; and evolve a Composite Assessment System (as a Composite Table, or 'Star Plots' detailed in chapter 9).

5 Mentor the Institutions falling 'far below the standards for accreditation'. (HEIs from the accredited group may be encouraged to become mentors, with suitable credit given during their re-accreditation).

6 Simplify the accreditation process, especially for the first cycle, and bring down periodicity for Re-accreditation to six years. Existing stipulation for annual re-approvals (by AICTE for technical educational programmes) may be eliminated, if the scope of the programme does not alter significantly.

7 Include all HEIs and every programme in the newly proposed assessment and accreditation system with due regard for their statutory dispensations (e.g. IITs).

150

05

Consider the heterogeneity of HEIs in the country, categorise them based on their orientation/vision and heritage/legacy, and then seek information from the HEIs that are appropriate for their category (rather than a one-size-fits-all model in vogue currently).

Criteria	Suggested Category of HEIs
Orientation and Vision	• Multi-disciplinary Education and Research-Intensive • Research-Intensive • Teaching-Intensive • Specialised Streams • Vocational and Skill-Intensive • Community Engagement & Service • Rural & Remote location
Heritage and Legacy	• Old and Established • New and Upcoming

(Note: # More categories may be added as required).

Accredit with appropriate consideration for Inputs, Processes, Outcomes and Impact across different attributes of HEI (instead of more input-centric). A framework for parametrising Input, Process, Outcomes, and Impact has been suggested. Linking parameters to essential variables, and, assigning weightages (business logics) for the varied purposes of approval, accreditation and scoring/ranking is a work in progress.

Develop a 'Unified Elicitation Tool' to collect the superset of data from HEIs for the varied purposes (of approval, accreditation, ranking) with an in-built design for collateral cross-checking to check authenticity of data and in conjunction with it, introduce maximally the technology-driven modern systems, to replace the existing manual/hybrid systems of assessment and accreditation thereby minimising subjectivity and enhancing transparency and credibility.

151

06

The 'One Nation One Data Platform' may be upgraded to a robust architecture to provide:

a) adequate access control and security features,

b) ingestion of harmonised data (with due quality checks) into a single format (with the applicable essential variables),

c) single point data entry by HEIs with the provision for yearly updates (enabling 'ease of doing business' for HEIs),

d) flexible and robust data management scheme with 'business logics' for the varied purposes of approval, accreditation and scoring/ranking,

e) handling of collateral data and stakeholder-crowdsourcing for verification of input data and trust-enhancement measures (replacing the current manual verifications and minimising dependence on visit of personal teams),

f) application programming interfaces (APIs) for pushing data from varied agencies into the centralized database that is being developed, and

g) compatibility with the national digital framework for good governance (e.g. NDEAR, InDEA 2.0 and GATISHAKTI), future digital campus of HEIs (e.g. SAMARTH, Swayam 2.0), as well as AISHE Portal, Digilocker and Academic Bank of Credits etc.

Trust Institutions (along with significant penalty for wrong doings/submissions) and ensure public disclosure of relevant data by HEIs, to enhance the overall process-credibility.

Initiate a robust outreach mechanism in tandem with effective methods of handholding the potential entrants (which is the large majority now), where the aim should be to facilitate all HEIs in the country towards joining the process of accreditation and ranking at the earliest. This will be an important requirement for the successful implementation of NEP 2020.

152

07

3.5. Present Accreditation Systems vis-à-vis NEP 2020's Vision

While NEP 2020 envisages a completely new system of accreditation through NAC, the present system adopted by NAAC is grossly divergent from the desired objectives of NEP 2020 as highlighted below:

Present Accreditation System	NEP 2020 Vision
Score-based, Multiple Grade Accreditation	Binary Accreditation
Portal Self-Disclosure	Public Self-Disclosure
Single Accreditation institutions	Approved Accreditation institutions
One-Size-Fits-All Model	University-Type-Based process
Input-Process-Limited-Outcome approach	Majorly Outcome-Based approach
Generic policy benefits as an incentive for accreditation	Empirical policy benefits to motivate accreditation

3.6. Concerns and Way Forward

Notably, there have been concerns about the low level of willingness of HEIs to volunteer for the assessment and accreditation process besides the cumbersome, all-encompassing information requirements (much of which may not be completely applicable for diverse categories of HEIs), overarching subjective processes, inconsistencies between assessments of HEIs by different agencies etc.

For addressing the present issues involved in the assessment and accreditation processes, deliberations have been held by the Government of India, and the following focus areas have been considered:

• Closely engaging with Universities/HEIs to identify and understand their perspectives.
• Examination of the existing documentation/verification processes and simplification/rationalization.
• Adopting an incentive-based, facilitation-oriented approach to encourage HEIs to undertake accreditation.
• Studying the global best practices in accreditation and ranking of HEIs and their courses.
• Carrying out stakeholders' consultation to further streamline the existing accreditation process of NAAC/NBA/NIRF to enhance the credibility and value of accreditation and ranking.
• Rationalization of the present system of recognition/accreditation and ranking by multiple agencies.

153

APPENDIX 1 - PROPOSED FRAMEWORK FOR ADDRESSING PARAMETERS PERTAINING TO INPUT, PROCESSES, OUTCOME AND IMPACT

(i) Curriculum

Input	Process	Outcome	Impact
Source of the content which is open for public viewing in their portals	• Students' Feedback • Teachers' Feedback • Stakeholders' involvement • Method of periodic upgradation • Review mechanism • Transparent responsible and inclusive methods of functioning • Expanding access to high-quality Technical and Vocational Education and Training (TVET) • Emphasizing the importance of enabling life-long learning focused on skilling, reskilling, and upskilling especially for vulnerable groups • Encourage mobility of students, scholars, across higher education institutions	• Successful completion of Course (Passing) • Updated knowledge • Time management catering to the needs of the semester system • Innovative ideas/ways of exercising policies/ patents/high impact publications, books • Teaching content contextualised leading to real-world skilling in the learners • Enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to the society • Multidisciplinary and holistic education	• Progression towards higher level of education educated-ness in the society • Increased possibilities skilled work-force leading to placement or self-generated jobs • Rise of/involvement in entrepreneurship /innovations • Awards/recognitions/ Inventions/Wealth generation • Prepare students for more meaningful and satisfying lives and work roles and enable economic independence

154

Input	Process	Outcome	Impact
Applications received	• Shortlisting procedure • Personality aspects • Pedagogy • R&D aptitude • Constitution of Selection Committee • Integrated Score with appropriate weightage • Continuous professional development of teachers through the Malviya Mission Programme and other similar programmes approved by UGC/AICTE with appropriate weightages • Appropriate consideration of faculty selection parameters (e.g. Professional skills like performing arts, visual arts; writing case studies for management institute faculty) and practical based selection • Consideration of parameters for ensuring social inclusivity measures in the HEIs (gender parity/ disabled/ trans-person/ SDGs) with appropriate weightages	• Merit-based selection with due importance to equity and diversity • Reflection in career path of students	• Student progression towards higher level of education in good institutions/ professional life/ social acceptance and moulding them to be responsible citizens of the nation. • High quality faculty that contribute towards the implementation of NEP 2020

155

36

Input	Process	Outcome	Impact
Diversity of content & contemporary issues in content delivery	• Normal classroom practice (Top down approach) • Interactive method/ collaborative/ contextual learning • Field work & evaluation • Experiential learning • Critical, ab-initio thinking and problem solving methods • Inculcating research oriented study • Cultivating deeper interest in the subject to spur learning by self-efforts • Harnessing digital technologies to overcome the digital divides for all learners • Promoting open, equitable and secure scientific collaboration across research and higher education institutions	• Holistic and contextual understanding of the subject and impact of learning in life • Need to have a benchmark of learning outcome • Promotion of research activity and new areas of thoughts • Developing the aptitude of connecting insights across domains	• Attainment of learning outcome, progression in studies & profession • Contribution towards different areas of learning/research through new and innovative critical ideas and thoughts • Promotion of self-sufficiency • Creating confident citizens

156

37

Input	Process	Outcome	Impact
• New imagination • New problems in research • Proper policy for promotion of research and research facilitation.	• Interdisciplinary approach. • Collaborative approach. • Research addressing local and regional issues of societal concern & global issues like climate change and world economy • Out of the box and fearless thinking that reduces the 'fear-of-failure' barrier to develop sensitivity towards diversity in the society • Promoting open, equitable and secure scientific collaboration and encouraging mobility of researchers and scientists across research and higher education institutions	• Publications. • Patents. • Participation of collaborative institutions in research • Translational work	• Increase in Citations • Peer group recognition • Stake-holder impact • Better funding of research by industry and other agencies.

Input	Process	Outcome	Impact
Credit for EC/CC activities	• Incentivization (financial etc.) and special focus to marginal sections • Logistic, connecting to the syllabus	• Holistic concepts of institutional learning • More complete realization of human potential	• Representation of students in national/ larger bodies • Creates an eco-system that uncovers innate talents in the society

157

38

(vi) Community Engagement

Input	Process	Outcome	Impact
• Curriculum & engagement with society. • Outreach activities • Projects/internships executed on real-world problems	• Social outreach and Community Engagement • Involvement of students to connect with society in the context of curriculum • Social research in collaboration with concerned bodies • Adoption of nearby institutions, bodies or villages. • Exchange programmes	• Understanding the relevance of curriculum for effective social and community engagement. • Increased involvement of the students in the societal level and realizing their sense of responsibility as a social being.	• Better acceptability of the institutions by society • Community improvement in terms of health, education & economic upliftment.

(vii) Green Initiatives

Input	Process	Outcome	Impact
Credit for Green Initiatives	• Use of renewable energy • Waste Management. • Environment friendly initiatives, e.g., Green building, Eco restoration • Spreading awareness among stakeholders. • Rain water harvesting and water recycling • Appreciation towards the importance of achieving SDGs rapidly	• Orientation towards environmental friendly actions. • Shift towards renewable energy.	• Reduction of carbon footprint

158

39

Input	Process	Outcome	Impact
Act, Statutes, Regulations, Policies	• Implementation conforming to Act, Statutes, Regulations, Policies. • Amendment procedure.	• Better conflict resolution	• Transparency in Governance
Mission to achieve the vision.	• Innovation in Governance to be evaluated based on Implementation of eGovernance, Decentralisation, participative management strategies. • Implementation of the G20 High-Level Principles on Lifestyles for Sustainable Development (LiFE) with appropriate weightage • Appropriate weightage for availability of an effective Grievance Redressal Mechanism and resolution of complaints • Appropriate weightages for performance related statistics like increase in enrolment, gender parity ratio, SC/ST/OBC/EWS Student enrolment • Appropriate weightage for strategies adopted for promotion of internationalization of education (e.g. UGC (Academic Collaboration between Indian and Foreign Higher Education Institutions to offer Twinning, Joint Degree and Dual Degree Programmes) Regulations, 2022, Study in India programme)	• Level of Implementation with examples in different area. • Increased GER	• Timeline of execution of administrative tasks • Helps in better management of the institution and its admin • Restoration of India's role as a Vishwaguru

159

40

Input	Process	Outcome	Impact
Infrastructure Development	• Details of land, classroom, research laboratory, computer centre, workshops, restaurant, theatre, dining hall, library, administrative office, faculty rooms, central stores, security, housekeeping, examination control office, placement office, common room, first aid cum sick room, guest house, sports club/ Gymnasium, auditorium, hostel • Logistics for infrastructure for connecting to the students, faculty and staff	• Holistic view of the existing capabilities of the institution. • Judgement of capabilities for expansion	• Better outcomes from students and their academic courses • Creates an eco-system that ensures that a healthy development of courses, students, faculty, and staff takes place.

/ 6 0

41

Input	Process	Outcome	Impact
Financial Resources & Management	• Seed money for teachers, students and researchers • Support for conferences, workshops, equipment, research etc. to students, teachers and researchers. • Amount spent on developing facilities, library, e-resources, labs, training teachers and staff for undertaking outreach activities • Amount spent on salary of teaching and non-teaching staff • Amount spent on Seminars/ Workshops/Conferences • Expenditure on infrastructure augmentation • Amount received in donation and CSR funds • Revenue generated from outreach activities • Total amount spent on developing facilities, training teachers and staff for undertaking outreach activities • Utilized amount on library, labs, workshops, other expenditure, salary of teaching and non-teaching staff, maintenance of infrastructure, consumables, Seminars/Workshops/ Conferences, each value given separately for each of the last 3 financial years	• Detailed overview of the financial health and existing capabilities of the institution. • Judgement for expansion of the institutes	• Better judgment about the outcomes from student, faculty and researchers • Creates an eco-system that ensures that a healthy development of student, and faculty can be correlated

161

42

Report on Alumni Association

Since inception, the focus of alumni association is the progress of the students and the alma-mater. The association organizes and supports various events in the college. These include career guidance workshops for the students, expert lectures on various technical topics, promoting entrepreneurship, pre-placement counseling, training and project guidance. These initiatives of the association support the college in all-round development of the students.

The most important event that was supported by Alumni Association was the industry meet organized on 16th March 2024 at Pune. This meet was a grand success. Around 165 alumni working in various fields attended this event and took active participation in discussing with the college authorities regarding the placement initiatives for the students. Few of our alumni have also turned out as entrepreneurs and they have expressed their interest to help the college in all the best possible ways.

For upcoming Alumni Meet on January 3-5, 2025, celebrating the **Silver Jubilee of the first pass-out batch (2020)**. With new ideas in mind, this event will be memorable and help foster an even stronger bond between alumni and the institution.

Suggestions: Dedicated office space for alumni office bearers can greatly enhance the effectiveness of planning and organizing activities.

Improving fund rising: Increasing funds for an alumni association requires a strategic approach that engages alumni, strengthens the association's value proposition, and promotes giving in a meaningful way. Here are several suggestions to improve funds for your alumni association:

- Develop Giving Levels: Create a tiered system to encourage alumni to give based on their financial capacity
- Recurring Donations: Encourage alumni to sign up for monthly or annual donations, which provide a steady stream of income.

- Virtual Events: Host online webinars, happy hours, or speaker series where alumni can participate remotely while donating to support the association.
- Develop or grow endowment funds that generate income for scholarships, research, or campus programs. Encourage alumni to contribute to these funds for long-term impact.

Faculty Coordinator

162

Executive Committee: 2024 – 2026

SR. NO.	NAME	DESIGNATION
1	Shri. Chetan D. Jadhav	President
2	Dr. Ishwar D. Jadhav	Vice President
3	Shri. Vijay D. Chaudhari	Hon. Secretary
4	Ms. Vandana N. Mahajan	Hon. Jt. Secretary
5	Shri. Mahesh S. Patil	Hon. Treasurer
6	Dr. Swapna M. Patil	Hon. Jt. Treasurer
7	Prof. M. S. Sadavarte	P.R.O.
8	Shri. Shafeeq Ansari	Immediate Past President
9	Prof. Dr. Suhas Gajre	Principal (Ex-officio member)
10	Prof. Vikas P. Jadhav	Member
11	Dr. Parag A. Narkhede	Member
12	Shri. Devdatta C. Gokhale	Member
13	Dr. Shashank Zope	Member
14	Shri. Virendra Borade	Member
15	Dr. Kaustubh Sakhare	Member
16	Shri. Ganesh Badgujar	Member
17	Shri. Santosh Bhavsar	Member
18	Ms. Chaitali Dhande	Member
19	VACANT	Patron

162(a)

Registered Life Members of AAGCEJ
Total: 304

Year	Registered Life Members of AAGCEJ Total: 304
2004 - 05	11
2005 - 06	2
2006 - 07	1
2007 - 08	13
2008 - 09	0
2009 - 10	6
2010 - 11	0
2011 - 12	10
2012 - 13	45
2013 - 14	12
2014 - 15	55
2015 - 16	82
2016-17 upto 24-08-16	67
	304
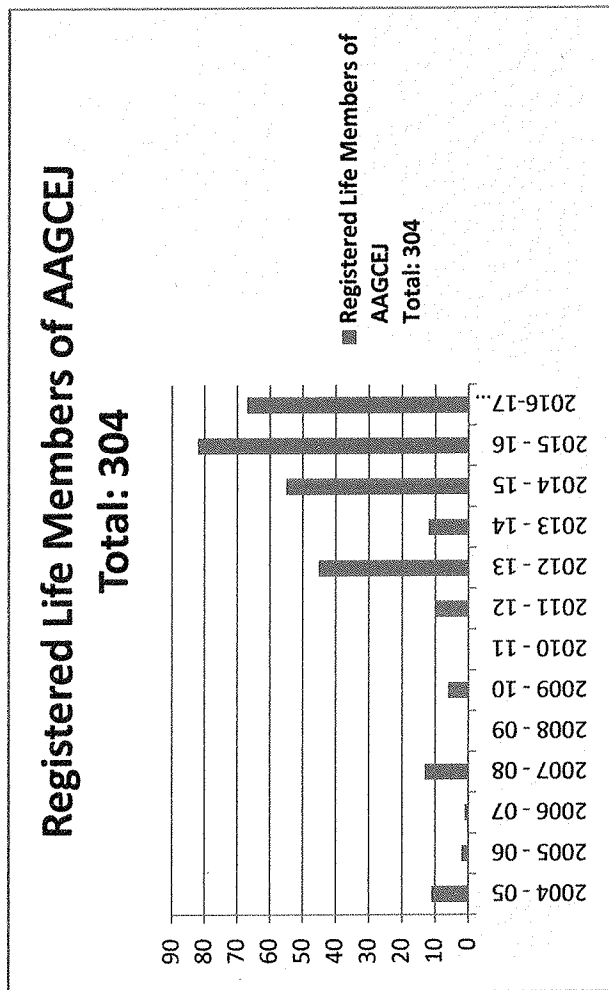
162(b)

जा.क्र./स्थापत्य विभाग/ ३००
दिनांक· ०३।१२।२०२५

Improvement in the Infrastructure and Learning resources available at the institute

Sr.No	Designation of the accommodation	Carpet Area in Sq.M.	Required as per AICT Sq.M
1	Instructional Area	7513	5273
2	Administrative Area	1050	900
3	Amenities Area	1722	1500
4	Circulation	2571	1918

- As per AICT, our total area requirement is fulfilled but we lack in amenities like girls and boys common room, video recording room, seminar hall for every department, Gymkhana room, various clubs rooms etc.

- Every department has two or three class rooms, but to run the NEP structure we need more smart class rooms for MDM and open elective.

- In library books purchasing process in going on to fulfill the requirement of NEP.

Dr V R saraf
Assistant Professor
Civil Engg Department

163

1. Best Practice I - Academic Excellence through Academic Audit:Academic Audit Documents
1. Best Practice II - Exposure to recent trends in industry through academic flexibility was proposed by the institute.

   3. But, they changed the philosophy.
2. Proposed best practices are as follows:

   institute has suggested to make following things for Institutional values and best practices:

   a. Village / school adoption

   b. Organize various programs for PWD/orphanage sansths/charity/ Remand home

   c. Personality development/skill development/ overall development of the students

   d. Blende Teaching learning

   e. Mentor- Mentee scheme

   f. Teacher guardian scheme

   g. Digital learning by students and staff

   h. Department Research committee

   i. Eco friendly

   j. Slow learning

   k. Old age home

   l. Plastic collection campaign in campus

   m. Cleanliness drive camp / at village / river site /college campus

164

Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon ▪ कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगांवशी संलग्न

Government College of Engineering, Jalgaon
शासकीय अभियांत्रिकी महाविद्यालय, जळगांव

An Autonomous Institute of Government of Maharashtra ▪ महाराष्ट्र सरकारची स्वायत्त संस्था
NAAC Accredited with grade B++ (2024-2029) ▪ नॅक द्वारा नामांकन ब++ (२०२४-२०२९)
NH53, Jalgaon, Maharashtra, PIN 425 002 INDIA ▪ राष्ट्रीय महामार्ग ५३, जळगांव, महाराष्ट्र, पिन ४२५ ००२ भारत
+91-257-2281522 ▪ principal.gcoejalgaon@dtemaharashtra.gov.in, principal@gcoej.ac.in
Vision: Globally Accepted Engineers with Human Skills ▪ Website: https://www.gcoej.ac.in ▪ DTE Code: 5004

No. GCoE J/IQAC/2024/ ०३   Date: 14/11/2024

Office Order

Subject: Criteria wise work distribution to IQAC members of this institute.

      Following members of IQAC are hereby informed that the NAAC has enabled the AQAR submission portal for the academic year 2023-24 and the last date of the submission of the referred AQAR is December 31, 2024. For data collection, record keeping and smooth functioning of IQAC, following faculty members are appointed as criteria coordinators. They are directed to collect the data and compile it in the appropriate format and submit to IQAC coordinator for uploading the same within stipulated time frame.

Sr No	Criteria	Name of Criteria coordinator(s)
1	Overall coordination	Dr P. J. Gaidhane, Shri S. G. Adam and Shri S. O. Dahad
2	Institutional information and extended profile	Dr P. J. Gaidhane and Shri S. O. Dahad
3	Criteria I	Dr S. P. Mohani and Dr S. C. Kulkarni
4	Criteria II	Shri S. G. Adam
5	Criteria III	Shri A. M. Dongardive
6	Criteria IV	Dr V. R. Saraf
7	Criteria V	Shri S. M. Wani
8	Criteria VI	Shri T. K. Gawali
9	Criteria VII	Smt D. P. Yawalkar

(Dr. Suhas Sudhakarrao Gajre)
Principal and Chairman IQAC,
Government College of Engineering,
Jalgaon

Copy To: All the concerned members of IQAC through their HoDs.

165

4

177

GYMKHANA REPORT 2023-24

Gymkhana department of the institution typically oversees a range of activities. It plays a vital role in promoting sportsmanship all over holistic development among students. It provides a structured environment for students to pursue their interests in sports and recreation contributing to a balanced and enriching the development. This report shows the glimpse of all the activities held under Gymkhana department in the academic year 2023-24.

Every cultural, sports and technical event conducted under Gymkhana is co-ordinated by Gymkhana vice-President Prof. Dr. S. A. Patil, faculty cultural in-charge Prof. Dr. M. R. Dhotre, faculty sports in-charge Prof. R. B. Umbarkar and faculty technical in-charge Prof. M. S. Patil respectively.

CULTURAL EVENTS:

On 5th September Teachers' Day is celebrated nation-wide to honor the invaluable contributions of teachers to society. This event was marked as the very first cultural activity of the institute. The 'Ganesh Utsav' was celebrated in the institute from 19th Sept to 28th September 2023 with great pomp and reverance. This exuberant occasion was accompanied with various events such as Blood Donation camp, Marathon, exciting games, Bhajan Sandhya, etc. The decoration of Ganesh Utsav incorporated the theme of 'Chandrayaan-3' to celebrate India's advancements in space exploration while honoring Lord Ganesha and also to inspire a sense of pride and curiosity among the devotees and visitors.

On the occasion of Navaratri, 'Garba Night' was the activity that was conducted in the institute just after declaration of Students' Council. It was conducted on 23rd Oct. 2023 where the students participated in traditional attires to enjoy the Garba and Dandiya Raas. The 'Vigilance Awareness Week' was observed from 30th Oct to 5th Nov with the theme "Say no to Corruption; Commit to the Nation" where the Marathon and Integrity Pledge were conducted to eradicate corruption and maintain highest standards of integrity, transparency and good governance in all aspects.

Every year 19th-25th Nov is observed as 'Communal Harmony week' by NFCH, on this account the donations were raised by the students for orphan and destitute children affected by violence, the flag stickers were distributed among the students and the flag day was observed. Along with these activities the guest lecture of Mr. Hemant Belsare, who runs 'Sudharma' named NGO, was organised on the topic of how to make our Earth the better place to live.

On account of 'Marathi Bhasha Samvardhan Pandhravda', 'Granth Dindi' and book reading events were organized on 24th January 2024.

166

As 'Shivajanmotsav' has become the legacy of GCOEJ, this year too; 'Shivajanmosav-2024' was the remarkable event which was celebrated by every GCOEJian with great enthusiasm on 19th February. The whole programme was organized by 'Shivajanmotsav Sanyojan Samiti'. The program was supplemented with various events and competitions such as blood donation camp, rally, street play, elocution competition, sketch competition, story telling competition etc. The procession became the main attraction of the program as it included Dhol-Tasha Pathak, Lezim Pathak, 'Shivkalin Mardani Khel'- Lathi kathi, Dandpattha, Chakra, etc. Hon. Dr. Girish Kulkarni (Jain Irrigation Systems Ltd. Jalgaon) was the chief guest of the program who delivered the inspiring, motivational 'Shivavyakhyan' which was followed by amazing musical drama 'Shiv Natya'.

'CARVAAN-2K24'- the grand annual cultural fest is always the most awaited cultural event of the institution. It can be considered as the cultural week as Carvaan consists of various events including Traditional Day, Bollywood Day, Group Day. This year Rampwalk and Flashmob were the exciting events conducted on Bollywood Day and Group Day respectively. The main Carvaan event was conducted from 5th to 7th March 2024, and was organized by faculty cultural in-charge Dr. M. R. Dhore, student general secretary Jayesh Zodge, student cultural secretary Dipak Pimpare and the organizing committee . The programme was accompanied by various exciting events. The first day of Carvaan was for poetry, open mic and Aikyam-Departmental dance. The theme of this year's departmental dance was mythological stories on which all the departments gave fabulous performances. The second day was for the Orchestra, solo-dual-group dances and the third day of the program was for skits, dramas and valedictory function. This event offered a valuable stage for students to demonstrate their talents where a number of performers participated enthusiastically. In valedictory function, the prizes were given to winners of sports and cultural events, national players , zonal players, co-ordinators, class representatives, presidents and various achievements and encouraged them for future achievements.

As every year, the joint birth anniversary of Mahatma Jyotirao Phule and Bharatratna Dr. Babasaheb Ambedkar was celebrated from 11th to 14th April 2024. Various competitions were conducted on this account such as elocution competition, quiz competition, etc. The chief speaker Mr. Akshay Raut (Sath Seva Foundation) a National Youth Speaker delivered a speech on the topic of 'Shivshahi te Lokshahi'. It was followed by the drama based on the life of Mahatma Phule and Dr. Babasaheb Ambedkar.

SPORTS:

167

Kaviyatri Bahinabai Chaudhari North Maharashtra University organizes Inter-collegiate and Zonal sports events every year. This year too, the students of the institute had participated in 34 events out of which girls had participated in 14 events and boys in 20 events, held between September-December2023. In spite of being technical institution, the institute has gained remarkable achievements in field of sports too. Through these events 37 students were selected for Zonal level competitions and further 5 students were selected for University level. The University players of the institute for the academic year 2023-24 are:

Football : Varada Talele(LY ET), Sanjana Surwade(LY CE), Harshwardhan Yadav(TY EE);

Handball: Krishna Udar(Sy ET); Chess: Shrushti Divekar(FY ET).

The Zonal players of the institute for academic year 2023-24 are:

Kho-kho: Abhishek Durge(TY CO), Rajnandini Naratawadear(TY ET), Shreya Choudhari(TY ET).

Basketball: Aditya Meshram(SY ET), Mayur Bagul(SY CO), Ashish Rathod(SY CO)

Athletics-Disc Throw: Rajnandini Naratawadekar(TY ET); Swimming : Mahesh Patil(TY CO);

Badminton: Mehul Thakur(LY CE); Hockey : Purvesh Mahajan(FY CE);

Volleyball: Aditya Pachare(LY EE), Aditya Singh(SY ET),Siddhi Kakpure(LY CO), Priyanka Chaure(LY ET),

Nidhi Wasule(TY ET), Tanushree Ghormare(TY EE);

Handball: Alex Abhyankar(LY ME), Sanket Padul(LY CO), Kiran Muley(TY ME), Aditya Singh(SY ET);

Football: Maithily Deshkar(SY ET); Nidhi Wasule(TY ET); Rajnandini Naratawadekar(TY ET), Jagruti Kale(TY ET),   Harshada Sakharwade(LY CE), Manasi Jadhao(TY ET), Aditi Raut(FY EE),

Rushikesh Gayake(LY ME), Prashil Moon(TY EE), Rajvardhan Salunkhe;

Kabaddi: Aditya Pachare(LY EE), Neha Tirmale(FY EE)

'Ashwamedh-2k24' was the annual institutional sports fest which was conducted from 24th Feb to 1st March 2024 where all six departments participated in 36 different sports events such as cricket, volleyball, kabaddi, kho-kho, badminton, football, handball, basketball, tug-of-war, athletics, chess, carrom. The sports fest was organised by faculty sports in-charge Prof. R. B. Umbarkar and student sports secretary Mahesh Zade and team. It provided an excellent opportunity for students to showcase their sportsmanship, team-spirit, leadership qualities.

168

TECHNICAL EVENTS:

'TECH-CAVAAN 2K24'- the significant state-level technical fest was conducted on 4th March 2024 for which the institute received Hon. Padmashree Dr. Sharad Kale (Ex-Scientist BARC) as Chief Guest where he delivered seminar on the topic of 'Science in Daily Life'. This session was organized in association with e-TESA. The following events were conducted during Tech-Carvaan 2K24 where a number of students had participated to showcase their talents.

1.DRONATHON & 2.FPV-LIFTOFF : conducted by Third-Axis Club

3. CIRCUITHON : E&TC department   4. CODECONFLUX : Computer Department

5. ROBOCON : Mechanical Department   6. FLOATING ICON: Civil Department

7. ELECTROELITE : Electrical Department 8. LOGIC SAVVY : Instrumentation Department

OTHER ACTIVITIES:

Various activities were conducted under National Service Scheme(NSS) of the institute during academic session such as NSS camp at Mhasavad, blood donation camp, Karate training program for girls, eye checkup camp, health checkup camp, etc

During academic session, number of guest lectures were organized in the institute. The guest lecture on the topic of 'Prevention, Prohibition and Redressal Act,2013' was organized on 8th February 2024 in association with ICC cell. The guest lecture of Dr. Vina Mahajan (Assistant Prof., Dept. of Psychology,KBUNMU) on the topic of 'Emotion Management' was organized in association with ISTE on 5th April, 2024. The guidance lecture of Mr. Gopal Darji(Darji Foundation) for Civil Service Examination aspirants was organised on 11th April. The guest lecture of Dr. Pradeep Waychal (Guruji Foundation) on the topic of 'Need for innovative mindset and how to achieve the same' was organised in association with e-TESA an INSAT on 20th April.

169

क्रमांक : १७/तंशिसं/NEP-२०२०/२०२४/२८५   दिनांक : 02 DEC 2024

प्रति,
१) संचालक/प्राचार्य,
   महाराष्ट्र राज्य तंत्र शिक्षण मंडळ, वांद्रे, मुंबई /
   सर्व स्वायत्त पदविका संस्था
२) संचालक/प्राचार्य,
   सर्व स्वायत्त अभियांत्रिकी महाविद्यालये

विषय : राष्ट्रीय शिकाऊ प्रशिक्षण योजना (NATS) अंतर्गत अंतिम वर्षाच्या अभियांत्रिकी पदवी आणि
पदविका अभ्यासक्रमांमध्ये शिकाऊ शिक्षण (Apprenticeship) या घटकाचा समावेश करणेबाबत...

संदर्भ : १) शासन निर्णय उच्च व तंत्र शिक्षण विभाग क्र. एनईपी-२०२२/(६७/२३)/तांशि-२, दि. ४ जुलै,
२०२३ व शुध्दीपत्रक दिनांक ३ ऑगस्ट, २०२३
२) भारत सरकार, शिक्षा मंत्रालय यांचे दिनांक ८ ऑक्टोबर, २०२४ रोजीचे पत्र

राष्ट्रीय शैक्षणिक धोरण-२०२० च्या राज्यातील अंमलबजावणीच्या अनुषंगाने शैक्षणिक वर्ष २०२३-२४ पासून पहिल्या टप्प्यात अभियांत्रिकी अभ्यासक्रमाच्या स्वायत्त संस्थांमधील (Autonomous Institutes) अभियांत्रिकी पदवी अभ्यासक्रमांसाठी आणि शैक्षणिक वर्ष २०२४-२५ पासून सर्व अभियांत्रिकी पदवी अभ्यासक्रमांसाठी "अभ्यासक्रम व श्रेयांक आराखड्या" संदर्भात क्र. १ च्या संदर्भाधिन दिनांक ४ जुलै, २०२३ च्या शासन निर्णयान्वये निर्देश जारी करण्यांत आलेले आहेत. सदरच्या शासन निर्णयासोबतच्या परिशिष्टांतील निर्देशामधील अ.क्र. ३ (f) नुसार पदवी अभियांत्रिकी अभ्यासक्रमात शिकत असलेल्या विद्यार्थ्यांसाठी ७ व्या किंवा ८ व्या यापैकी एका सत्रात Field Projects/Internship/Apprenticeship/Community Engangement Projects विहित करण्यांत आलेले असून, त्यासाठी १२ श्रेयांक (Credit) निश्चित करण्यांत आलेले आहेत. तसेच पदविका अभ्यासक्रमांसाठीसुध्दा शैक्षणिक वर्ष २०२३-२४ पासून राज्यात राष्ट्रीय शैक्षणिक धोरण-२०२० ची अंमलबजावणी सुरु करण्यांत आलेली आहे.

Board of Apprenticeship Training (BOAT) मार्फत National Apprenticeship Training Scheme (NATS) अंतर्गत विहित करण्यांत आलेली Apprenticeship Training योजना ही अभियांत्रिकी पदवी तसेच पदविका अभ्यासक्रमाच्या विद्यार्थ्यांनासुध्दा लागू करण्याबाबतचे निर्देश भारत सरकारच्या शिक्षा मंत्रालयाने उपरोक्त संदर्भाधिन क्र. २ च्या पत्रान्वये Board of Apprenticeship Training (BOAT) यांना दिलेले आहेत.

या संदर्भात सीडनहॅम कॉलेज ऑफ कॉमर्स अँड इकोनॉमिक्स, चर्चगेट, मुंबई येथे दिनांक २६ नोव्हेंबर, २०२४ रोजी डॉ. होमी भाभा स्टेट युनिव्हर्सिटी, मुंबई यांचेव्दारे आयोजित करण्यांत आलेल्या कार्यशाळेत संचालक, Board of Apprenticeship Training (BOAT), पश्चिम विभाग (WR), मुंबई यांनी मार्गदर्शन केलेले आहे.

त्याअनुषंगाने आपणांस कळविण्यांत येते की, राष्ट्रीय शैक्षणिक धोरण-२०२० च्या अंमलबजावणीच्या अनुषंगाने विहित करण्यांत आलेल्या Apprenticeship बाबत Board of Apprenticeship Training (BOAT), पश्चिम विभाग (WR) यांचेशी संपर्क साधून यासंदर्भातील सामंजस्य करार करण्यांत येऊन या योजनेचा लाभ महाराष्ट्र राज्य तंत्र शिक्षण मंडळाशी संलग्नित संस्थेतील तसेच आपल्या संस्थेत शेवटच्या वर्षात शिकत असलेल्या विद्यार्थ्यांना होण्याच्या दृष्टीने उचित कार्यवाही करावी व केलेल्या कार्यवाहीबाबत संचालनालयास अवगत करण्यांत यावे.

आपला

(डॉ. विनोद मोहितकर)
संचालक, तंत्र शिक्षण, म.रा., मुंबई

प्रत माहितीकरीता सादर :(१) मा. प्रधान सचिव, उच्च व तंत्र शिक्षण, मंत्रालय विस्तार भवन, मुंबई-३२
२) संचालक, Board of Apprenticeship Training (BOAT) (WR)

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No.16-20/2024-TS.VII
Government of India
Ministry of Education
Department of Higher Education
(TS-VII Section)

Shastri Bhawan, New Delhi
Dated: 08th October, 2024

Office Memorandum

Subject: Inclusion of Apprenticeship Component in the Final Year Degree, and Diploma Courses (Technical and General Streams) under National Apprenticeship Training Scheme (NATS)-reg.

The undersigned is directed to say that for further propagating the apprenticeship program, it has been decided to extend the stipendiary coverage of NATS Scheme to final-year students enrolled in degree, and diploma programs that include Industrial training component as apprenticeship training under National Apprenticeship Training Scheme (NATS).

2.   The Apprenticeship component of minimum 6 months to a maximum of 1 year integrated in the final year of Apprenticeship Embedded Technical as well as Non-technical Graduate, and Diploma courses can be covered under National Apprenticeship Training Scheme.

3.   The said courses may be considered to be equivalent to the Sandwich course as defined in The Apprentices Act, 1961 and The Apprenticeship Rules, 1992, both amended time to time. The apprentices of such courses shall be termed as "Graduate Apprentice (Sandwich course)", and "Technician Apprentice (Sandwich course)".

4.   To cover the Apprenticeship Embedded Degree, and Diploma programs under NATS, a Memorandum of Understanding between Universities/HEIs and Regional Boards responsible for implementation of National Apprenticeship Training Scheme in the respective Region, will be required to be done.

This issue with the approval of Competent Authority.

(Gaurav Singh)
Director (Edu Tech)

To

The Directors
BoAT(NR, SR and WR)/BoPT (ER)