

**GOVERNMENT COLLEGE OF ENGINEERING,
AURANGABAD**

INSTITUTIONAL DEVELOPMENT PLAN



1. INSTITUTIONAL BASIC INFORMATION

Institutional Identity

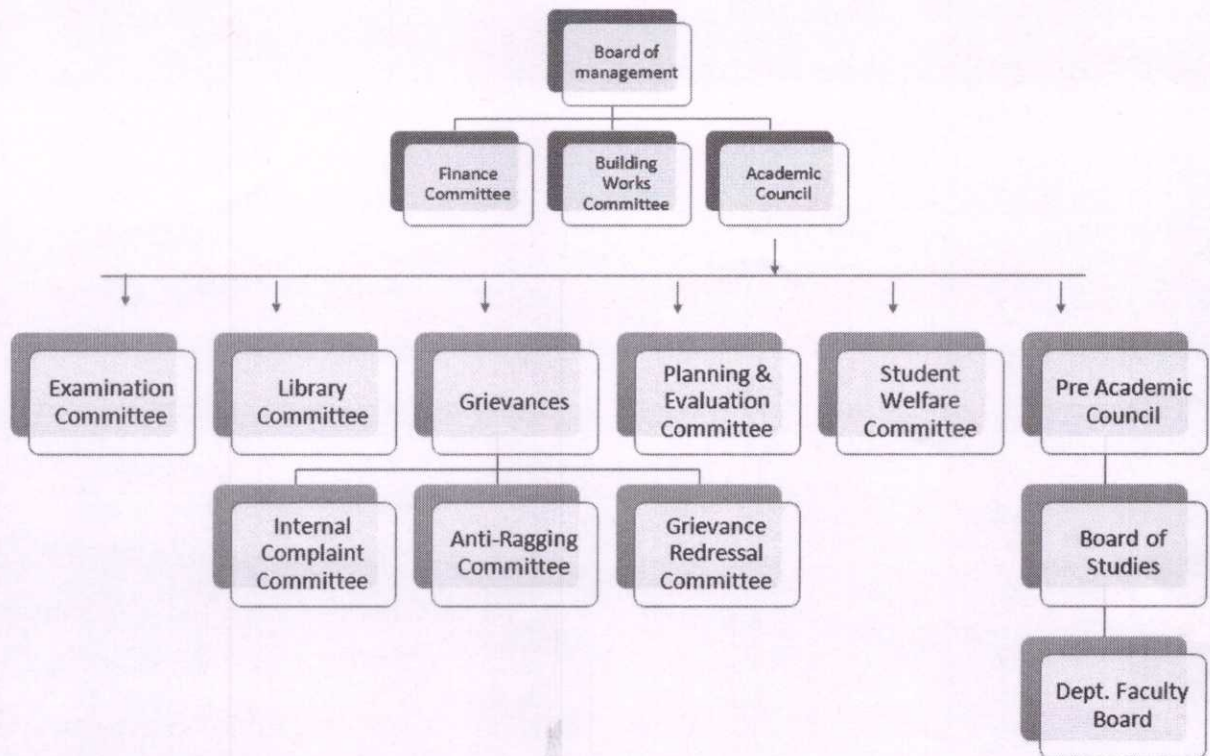
- Name and address of the Aurangabad Institution : Government College Of Engineering, Railway Station Road, Aurangabad Maharashtra, India - 431005.
- Year of establishment : 1960
- Is the Institution AICTE approved? : Yes
- Furnish AICTE approval No. : FNo. Western/1-2815712978/EOA/2016
- Type of Institution : Govt. funded
- Status of Institution : Autonomous Institution Status by UGC and affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- Name and Designation of Head of the Institution (Full time appointee) : Dr. U. J. Kahalekar

2. Governing body and Administrative set up

Name of Governing Body	Functions and Responsibilities
Board of Management	Board of Management of the institution has been constituted as per the Maharashtra State Higher & Technical Education Government Resolution 2013/(129/13)/TE-2 Dated 21 Sept 2016 which is in tune with UGC guidelines. The functions of Board of Management have been defined as per the Government Resolution No. 2010/(170/10)/TE-2 Dated 23 Oct 2012
Academic Council	The Academic Council is the highest academic body of the institute and is responsible for formulating, regulating and maintaining the standards of teaching, research and examinations in the institute. The Academic Council is constituted as per UGC guidelines for Autonomous colleges, Dated 19/1/2018. Functions: <ul style="list-style-type: none"> ● Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures etc., provided that where the Academic Council differs on any proposal, it shall have the right to return them for reconsideration to the Board of Studies concerned or reject it after giving reasons to do so. ● Make regulations regarding the admission of students to different programmes of study in the college keeping in view the government

	<p>policies.</p> <ul style="list-style-type: none"> ● Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels. ● Recommend proposal for new programs of study to concerned authorities. ● Recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same. ● Advise the Governing Body on suggestions(s) pertaining to academic affairs. ● Perform such other functions as may be assigned by the Governing Body.
Board of Studies	<p>The Board of Studies is constituted for each program department as per UGC guidelines.</p> <p>Functions:</p> <ul style="list-style-type: none"> ● Prepare syllabi for various courses keeping in view the vision of the institute, interests of the stakeholders and national requirement for consideration and approval of the Academic Council ● Suggest methodologies for innovative teaching and evaluation techniques ● Suggest panel of examiners to the Academic Council for appointment. ● Coordinate research, teaching and other academic activities in the department/ institute.
Statutory and Non Statutory Committees	<p>As per the U.G.C. guidelines (Eleventh Plan) and Government of Maharashtra G.R. No. Baithak /2010/(170/10)/TE-2, Higher and Technical Education Department, dated 23rd October 2012, various statutory and non-statutory bodies have been constituted for delegation of various Roles and Responsibilities as per the provisions of statutes of autonomous colleges. Following committees have been constituted.</p> <ul style="list-style-type: none"> ● Academic Council ● Board of Studies ● Finance Committee ● Grievance Appeal Committee ● Examination Committee ● Library Committee ● Student Welfare Committee ● Extra-Curricular Activities Committee ● Academic Audit Committee <p>These Committees perform as per the scope and provisions of the framework which augments and assists the Head of the Institution in Overall Administration and Management.</p>

3. Governance of Institute



4. Organizational Chart of Government College of Engineering, Aurangabad

GOVERNMENT OF MAHARASHTRA

Secretary, Higher & Technical Education

Director, Technical Education

Joint Director, Technical Education,
Regional Office

Board of Management

Principal

Departmental Heads
Civil
Mechanical
Electrical
Electronics
CSE
IT
Applied

Deans
Dean Academics
Dean R & D
Dean QA
Dean III & A
Dean Students' Activities

Functionaries
Controller of Examinations
Gymkhana Vice-President
Training & Placement Officer
Rectors and

Administrative Officer
Supporting Staff for Administrative Officer
Registrar
Office Superintendent
Head Clerk

Academic Council
Board of Studies

Departmental Staff for Heads
1) Technical Faculty 2) Foreman/ Charge man 3) Technical Staff
4) Laboratory Assistant 5) Class IV

5. INSTITUTIONAL DEVELOPMENT PROPOSAL (IDP)

(Implementation period : April 2017- March 2027)

The Executive Summary of the IDP including the mission and vision statement of the institution.

Government College of Engineering was established in 1960. Institute started with three undergraduate programmes in Civil, Electrical and Mechanical Engineering with an intake of 60 students each. Presently there are 6 undergraduate full-time programmes, 7 post graduate full-time programmes, 4 undergraduate part-time programmes, 7 post graduate part-time programmes and 5 Ph.D programmes. The total intake of the institute is 766 students.

The institute has been awarded autonomous status since 2006. The institute has received National Education Leadership Outstanding Engineering Institute (West) Award by Lokmat on 13 Feb 2014 and National Education Award 2014 by ABP Maza on 27 June 2014.

The Institute is situated in the heart of Aurangabad city at about 1Km from railway station, with separate building for various programme departments, library, auditorium, hostels and office. Auditorium of the institute has a sitting capacity of about 1000 persons. The institute has well-furnished and equipped seminar and conference facilities.

Vision

In pursuit of global competitiveness, the institute is committed to excel in engineering education and research with concern for the environment and society.

Mission

- To provide a conducive environment for academic excellence in engineering education.
- To enhance research and development along with promotion to sponsored projects and industrial consultancy.
- To foster development of students by creating awareness for need of society, sustainable development and human values.

The short-term goals

- To get all the UG and PG programmes accredited.
- To undertake institutional reforms and effective governance.
- To modernize existing laboratories and teaching-learning infrastructure.
- To establish an Incubation centre.
- To increase employability of graduates through soft skill training.
- To promote the spirit of entrepreneurship, industry and environmental awareness.
- To establish at least one research center in each department
- To enhance liaison with industry through collaborative activities
- To promote R & D activities useful to society and industry.

The long term goals

- **Joint industry-academia collaborations for research activities.**

- To establish centre of excellence at least one in each department
- To become self-reliance through financial autonomy
- Acquiring 150 Acres of land for Deemed University
- To achieve deemed university status
- Construction of new Academic and administrative building. Boys Hostel with 250 capacity and two storied parking place.

Strengths of the institute

- Autonomous institute
- Qualified faculty studied in premier institutes like IIT & NIT
- One of the Premier Engineering institutes in Maharashtra
- Meritorious student input from all over Maharashtra
- Involvement of students and faculty in large number of social activities
- Dedicated faculty and staff with good team spirit
- Transparency in governance
- Concerted efforts for faculty development
- Full time PG programs & Recognized Research Center of Dr. B.A.M. University
- Funding from AICTE, TEQIP, DRDO, UGC etc. for research and development
- Use of IT tools for promoting technology enabled learning (TEL)
- Scope for industry – academia collaborations through research, internship, CEP etc.
- Close interaction with field through testing, consultancy and research
- Collaboration with various organizations for academic activities
- Active alumni networking for corpus, industry projects, placement etc.
- Well placed alumni in government and reputed private organizations.

Weakness

- Vacant faculty at various positions
- Dependence on PWD for infrastructure, development and maintenance

Strategic Plan

Institutional Strategic Plan has been formulated for overall development of institute in line with vision and mission of the institute. Ten years Institutional Development Plan has been prepared through brain storming sessions.

Following initiatives are taken for development of institute:

- Academic Excellence
- Scholastic Development and Research & Development
- Faculty Development
- Student Development and Placement/ Entrepreneurial Competence
- Facility Development
- Administrative Reforms

Academic Excellence

- Updation of curriculum of all UG programs as per CBCS pattern by May 2017
- Academic audit of curriculum and question papers by IITs/NITs for enhancement of its relevance and effectiveness by July 2017

- Implementation of 5S-level-2 in all laboratories by Dec 2017.
- Procurement of additional equipment by March 2018 for up gradation of laboratories.
- Collaborations to be established/enhanced with Auto cluster, Electronic cluster and industrial associations by May 2018.
- Co-teaching by adjunct faculty from industries to be started by March 2017.
- Modified student feed-back system to be implemented and monitored from June 2017 onwards

Scholastic Research and Development

- Register for National Digital Library coordinated by IIT Kharagpur and upload at least 05 projects/articles by Dec 2017.
- Register and coordinate at least two GIAN courses by June 2018.
- Each department to apply for at least one sponsored research project from agencies like DST, BRNS, DRDO, UGC, A ICTE by October 2017
- Establish collaborations with at least ten international universities in the form of joint research projects, student exchange, faculty exchange, joint publications by June 2019.
- Increase the number of faculty with Ph.D. qualification to 80% by June 2020.
- Generate at least 5 lakhs of IRG through testing & consultancy in CSE/IT departments by March 2018

Faculty Development

- All CAS promotions at institute level to be completed by March 2017.
- Reduce faculty vacancy positions to zero by June 2018.
- Faculty performance appraisal system to be designed and implemented by June 2017.
- Teams of faculty members to visit at least five reputed international universities by March 2018.
- Student Development and placement/entrepreneurial competence
- All students to undergo at least one soft-skill training program by June 2017.
- All students to undergo at least one training program on financial management by June 2018.
- At least one team from each department to participate in national level project competition/design competition conducted by IITs/NITs/INAE during 2017-18.
- At least one project team from each department to carry-out project in collaboration with industry during 2017-18

Student Development and Placement/ Entrepreneurial Competence

- Identification of local industry, potential industry, employer industry
- Organizing meetings of industries to understand the industry expectation from graduates and postgraduates.
- Identify areas of collaboration
- Identification of weakness of students in cognitive and non cognitive domain by using standard tools
- Organizing training such as communication skills, presentation, ethics, negotiations skills, interview techniques etc
- Workshops/ seminars on different opportunities available in terms of job and higher studies

Facility Development

- Landscape development by March 2018.
- Building repairs to be completed by March 2018.
- Canteen to be started by November 2017.
- Additional built-up space of at least 8000 Sq.m. to be created by March 2019.
- Appointment of national level architect
- Power of 50 lacks to BoM for civil repair works
- Hostel & mess improvement

Administrative Reforms

- Modifications in administrative setup as per requirement

A summary of the development plan is indicated as below.

Ten Years Institutional Developmental Plan:

S.No	Activity	2017-2019	2019-2021	2021-2023	2023-2025	2025-2027
1	Removal of Obsolete equipments, Repair and maintenance of existing not working	←→				
2	Increase in intake of UG Program		Mechanical-60 to 120 students ←→			
3	Starting of Integrated Five year Program		Electronics-1 ←→			
4	Starting of New PG Program		Mechanical -1, Electronics-1 ←→	Civil-1, Mechanical -1 Electronics-1, CSE-1, IT-1 ←→	Mechanical -1 Electronics-1 ←→	
5	Establishment of Research Centre/Laboratory/Incubation Centre	Electrical-1, Electronics-1 ←→	Mechanical -1, Electrical-1, IT-1 ←→	Applied Mechanics- 1,CSE-1 ←→	Civil-1, Mechanical -1, CSE-1, IT-1 ←→	
6	Centre of Excellence		Civil-1, Mechanical -1, Electrical-1 ←→	Mechanical -1, Electrical-1, Electronics-1 ←→	Applied Mechanics-1, Mechanical -1, Electrical-1, IT-1 ←→	Mechanical -1 ←→
7	Acquisition of 150 acres of Land for proposed Deemed University status	←→	←→			
8	Acquiring Deemed University status and Establishment of University			←→	←→	←→

Year wise Budget Required for Ten Year Institute Developmental Plan (In LAKHS)

Activity	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	Total
Buildings/Refurbishment/Repairs/Beautification/Canteen		964	964	1370	1370	1704					6372
Renovation of Existing Building		500	500								1000
Equipment/Computers/Softwares/Machinery/Books/E-	795.5	1007.5	4187.5	4252.5	3068.75	2603.75	3558.75	3673.75	4911.5	4841.5	32901
Training of faculty/staff, MoU, Industrial Interaction	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	1825
New Post Creation		183.89	183.89	354.56	354.56	545.34	545.34	594.23	594.23	663.52	4019.56
Total	978	2837.89	6017.89	6159.56	4975.81	5035.59	4286.59	4450.48	5688.23	5687.52	46117.6
Establishment of Deemed University							Block Grant of Rs. 50000 Lakhs will be spent for Establishment of Deemed University				

Department Wise list of Equipment/Machineries/Computers/Softwares/Furniture/Books/e-Journals for Ten Years Institutional Developmental Plan												
S.No.	Dept	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	Total
1	Civil	90	210	150	180	200	220	220	220	220	220	1930
2	AM	25	25	25					150	150	100	475
3	Mechanical	172	230	3135	3135	1950	1950	2925	2925	4250	4250	24922
4	Electrical	50	50	100	100	100	100	50	50			600
5	Electronics	25	75	200	50	50	50	50	50	50	50	650
6	CSE&MCA	75	75	150	145	205	200	155	150	150	135	1440
7	IT	40	20	25	40	40	25	115	95	75	70	545
8	Library	250	275	325	525	470						1845
9	Workshop	26	26	60	60	40	40	25	20			297
10	App. Chemist	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	75
11	App. Physics	3.5	3.5	6	6	6.25	6.25	6.25	6.25	9	9	62
12	Mathematics	23.5	3.5	4	4							35
13	Gymkhana											0
14	COE Cell	8	7				5	5				25
	Total	795.5	1007.5	4187.5	4252.5	3068.75	2603.75	3558.75	3673.75	4911.5	4841.5	32901

Achievements

- NDF centre for Civil Engineering, Electrical Engineering and Electronics & Telecommunication Engineering
- Establishment of Institute Innovation Cell
- 06 Sponsored Research Projects
- 14 Seed Money Projects with Total Funding of 21.29L
- 03 Funded Projects
- IPR - Patents - 06 Filed, 10 Granted, Copy Rights - 07 Granted, Designs - 13 Granted, Trademarks - 04 Granted



(Signature)
Nov 24
Principal,
Govt. College of Engineering
Chhatrapati Sambhajinagar