

राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड, नई दिल्ली -110003

NATIONAL BOARD OF ACCREDITATION

4th Floor, East Tower, NBCC Place, Bhasham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

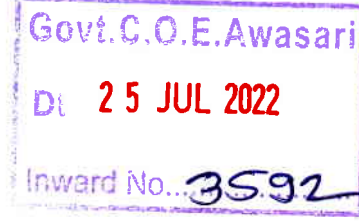


File No: 28-630-2021-NBA

Date: 10-06-2022

To,

The Principal,
Government College of Engineering and Research,
A/P Avasari (Khurd), Tal. Ambegaon,
Dist. Pune, Maharashtra – 412405.



Subject: Accreditation status of UG Engineering programs applied by Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405.

Sir,

This has reference to your application I.D. No. 5380-25/02/2021 seeking accreditation by National Board of Accreditation to UG Engineering programs offered by **Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405.**

2. An Expert Team conducted onsite evaluation of the programs from **22nd to 24th April, 2022**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the programs as given in the table below:

Sl. No.	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Mechanical Engineering	Tier-II June 2015 Document	Accredited	Academic Years 2022-2023 to 2024-2025 i.e. upto 30-06-2025	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier
2.	Automobile Engineering		Accredited		

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted accreditation for 3 years. **Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405** should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above so as to be eligible for consideration by the concerned Committee in NBA for further processing of the accreditation status.

Contd./...

5. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to **Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405** as a whole. **As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above programs is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programs as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

7. The accreditation status awarded to the programs as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. A copy each of the Report of Chairman of the Visiting Team and Evaluators' Reports in respect of the above programs is enclosed.

9. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,



(Dr. Anil Kumar Nassa)
Member Secretary

- Encls.: 1. Copy of Report of Chairman of the Visiting Team.
2. Copy each of Expert Reports of the Visiting Team.

Copy to:

1. The Director,
Directorate of Technical Education
Govt. of Maharashtra 3,
Mahapalika Marg,
Mumbai 400 001.
2. The Registrar,
Savitribai Phule Pune University,
Ganeshkhind, Pune-411007,
Maharashtra
3. Accreditation file
4. Master Accreditation file of the State

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PART A

Chairperson's Visit Report

Undergraduate Engineering Program

TIER-II

Name of the Institution

Government College of Engineering and Research, A/P Avasari
(Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra.

Names of the Programs

1. Mechanical Engineering
 2. Automobile Engineering
-


Visit Dates

22nd- 24th April, 2022.

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg, Pragati Vihar, New Delhi
110003

Tel: +91 112430620-22; 01124360654; www.nbaind.org


(YAS Ayya)

Team composition

Name of the Chairperson: Prof. YDS Arya

Designation: Vice Chancellor

Program1: Mechanical Engineering

Program evaluator 1	Name: Prof. N.D. Mittal
	Organization: Former Prof. & Dean (Academic Affairs), Dept. of Mechanical Engineering, MANIT, Bhopal, M.P.

Program2: Automobile Engineering

Program evaluator 1	Name: Prof. Ashutosh Gupta
	Organization: Professor & Head, Dept. of Mechanical Engineering, G.B. Pant Engineering College, Ghurdauri, Pauri – 246194, Uttarakhand.



Institute Details

Year of Establishment: 2009

Physical Infrastructure and Ambience: Excellent

Number of programs being run in the Institute*:

(i) UG- 6

(ii) PG – 0

Total Number of Students:

(i) In UG programs- 1702

(ii) In PG programs- NA

Names of programs applied for accreditation

1. Mechanical Engineering
2. Automobile Engineering



Name of the Program1:Mechanical Engineering

Marks given by Evaluators:


A. Department/Program Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Vision, Mission and Program Educational Objectives	60	42	
2.	Program Curriculum and Teaching-Learning Processes	120	70	
3.	Course Outcomes and Program Outcomes	120	91	
4.	Students' Performance	150	79	
5.	Faculty Information and Contributions	200	127	
6.	Facilities and Technical Support	80	46	
7.	Continuous Improvement	50	25	
TOTAL		780	480	

B. Institute Level Criteria (to be filled by the Chairman):

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
8.	First Year Academics	50	35	
9.	Student Support Systems	50	34	
10.	Governance, Institutional Support and Financial Resources	120	102	
TOTAL		220	171	
GRAND TOTAL (A +B)		1000	651	

*Assessment for Criteria 8 (8.3, 8.4 &8.5) and 10 (10.3) is different for individual program.



Signature
(Chairman)

Name of the Program2:Automobile Engineering

Marks given by Evaluators:

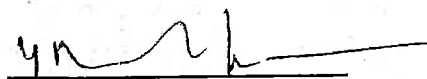
A. Department/Program Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Vision, Mission and Program Educational Objectives	60	40	
2.	Program Curriculum and Teaching-Learning Processes	120	77	
3.	Course Outcomes and Program Outcomes	120	82	
4.	Students' Performance	150	86	
5.	Faculty Information and Contributions	200	129	
6.	Facilities and Technical Support	80	56	
7.	Continuous Improvement	50	26	
TOTAL		780	496	

B. Institute Level Criteria (to be filled by the Chairman):

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
8.	First Year Academics	50	35	
9.	Student Support Systems	50	34	
10.	Governance, Institutional Support and Financial Resources	120	102	
TOTAL		220	171	
GRAND TOTAL (A +B)		1000	667	

*Assessment for Criteria 8 (8.3, 8.4 &8.5) and 10 (10.3) is different for individual program.



Signature
(Chairman)

Overall Observations

1.

S. No.	Name of the Program	Intake			Admissions	Student-Faculty Ratio
		CAY	CAYm1	CAYm2	Average of CAY, CAYm1 and CAYm2	Average of CAY, CAYm1 and CAYm2
1.	Mechanical Engg.	60	60	60	59 (98%)	1 : 23
2.	Automobile Engg.	60	60	60	44 (74%)	1 : 22

2. About the progress since last accreditation (to be filled for institutes who have applied for re-accreditation)

NA

3. Observation on general facilities and about the programs.

Strengths:

1. Excellent infrastructure facilities.
2. Excellent students' intake in number and quality.
3. Good first year Lab facilities.
4. Vision and mission are made with stake holders' input.
5. Good self learning efforts and lot of certification by faculty and students.
6. All administrative bodies are properly in place.
7. Budgeting system is fair and robust.
8. Very good sports facilities and cultural activities.

Areas of improvement:

1. OBE understanding of students is a concern.
2. First year faculty is mostly contractual.
3. More soft skill courses for students are required.
4. Students need platform of Seminars, interaction with experts.
5. R & D projects and consultancy are very meager.
6. T & P cell is not putting enough efforts for higher studies.
7. There is need of enhancing entrepreneurship efforts.

4. Status of imbibing of outcome based accreditation.

- OBE needs better understanding by faculty and students.
- Attainment levels need proper setting.



26/04/2022
(Prof. YDS Arya)
Chairperson

PART A

Evaluator's Visit Report

Undergraduate Engineering Program

Tier-II

Name of the Institution

Government College of Engineering & Research
Avasari (Khurd), Pune (Mah.)

Name of the Program

U.G. in Automobile Engineering

Visit Dates

22nd to 24th April 2022

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhasham Pitamah Marg,
Pragati Vihar, New Delhi 110003

Tel: +91 112430620-22; 01124360654; www.nbaind.org

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from 22 April to 24 April 2022 at Govt. College of Engg. Res. Pune to evaluate UG Engineering program Automobile Engineering.

Pre visit meeting of the expert team was held on at 21 April 2022 at 9:00 pm in hotel to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr. D.R. Pangavhane, Principal. The briefing on the institution was given by Dr. D.R. Pangavhane and on the program was given by the Dr. M.J. Pable HOD (Automobile Engineering). The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	<input checked="" type="checkbox"/>	Alumni	<input checked="" type="checkbox"/>
Employers	<input checked="" type="checkbox"/>	Parents	<input checked="" type="checkbox"/>
Staff members	<input checked="" type="checkbox"/>	Students	<input checked="" type="checkbox"/>

The Program Evaluation Team found that (general findings about the program to be mentioned)

UG (Automobile Engg) program was started in year 2009 with an intake of 60 students. Presently its intake is 60 students and program is of coeducation. The duration of program is 04 years (full time). The college is affiliated with Savitri Phule Pune university, Ganeshkhind, Pune (Mah.). The ownership of the college is state government. The department environment is good, however its academic performance in final year (without backlog) is not good.



Program Details

Name of the Program: <i>UG in Automobile Engineering</i>					
Year of Commencement		2009			
Student	Year	Sanctioned Intake	Actual Admitted (without Lateral Entry)		
	CAY (2020-2021)	60	49		
	CAY m1 (2019-2020)	60	40		
	CAY m2 (2018-2019)	60	44		
	Total Students in the Programme 1 st to Final Year	274			
Average of CAY, CAYm1 and CAYm2		<i>CAY (2020-21) = 81.67%</i> <i>CAYm1 (2019-20) = 66.67%</i> <i>CAYm2 (2018-19) = 73.33%</i> Av = 73.89% <i>Av. Stud = 44</i>			
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular		CAY	CAYm1	CAYm2
		Professor	01	01	01
		Associate professor	01	01	01
	Contractual	Assistant professor	08	08	08
		Professor	00	00	00
		Associate professor	00	00	00
	No. of PhD. available in the dept.	Assistant professor	00	00	00
			02	02	02
	Student - Faculty ratio (average of CAY, CAYm1 and CAYm2 (Refer criteria-5.1))		Av SFR = 22.04		
	Previous accreditation (if any)	First accreditation	No. of years accredited for	Not applicable	
With effect from					
Previous accreditation		No. of years accredited for	Not applicable		
		With effect from			

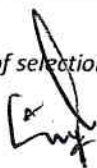
CAY: Current Academic Year

CAYm1: Current Academic Year minus 1= Current Assessment year

CAYm2: Current Academic Year minus 2= Current Assessment year minus 1

Note: Consideration of Contractual Faculty means:

- All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:
 1. Shall have the AICTE prescribed qualifications and experience.
 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit



- **Faculty to be calculated Department wise as per the format given in SAR; Faculty appointment letters, time table, subject allocation file, salary statements and random interaction in person.**
- **No. of students calculation as mentioned in the SAR (please refer table under criterion 3.1)**
- **Faculty Qualification as per AICTE guidelines shall only be counted**

Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title UG in Automobile Engineering

Strengths:

1. Dedicated and motivated faculty and staff
2. Students are in general satisfied.
3. Computing facility in the department is reasonably good
4. Course outcomes are defined for every course and embedded in the syllabus.
5. Effective teaching learning observed, course files are well prepared.

Weakness/Areas of improvement:

1. The justification and consistency of mapping of COs, POs and PSO's need to be made for understanding outcome based education con
2. The attainment level, quality of assessment tools, processes require careful review.
3. More innovations are required in teaching learning process
4. Students are not fully conversant with different aspects of outcome based education.
5. No provision for skill up gradation of technical supporting staff.
6. Preparation of GATE and competitive exam.
7. Poor mechanism of mentorship between students and faculty
8. Not many research papers in good quality journal
9. Need for regular feedback from the stakeholders for the proper analysis and review of various aspects of OBE
10. No significant entrepreneurship activities.

Deficiencies:

1. Poor in consultancies related work
2. Sponsored R & D projects
3. Industry supported Lab.
4. No small class room in the department.
5.

Other Observations, if any:

1. Wifi connectivity in whole campus.
2. Drinking water facility in departments need improvements.
3.
4.
5.

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Information for Evaluation

Award of Accreditation (TIER II (UG))

- 1. Accreditation for Six years will be accorded to a program on fulfilment of the following requirements:**
 - i. Program should score a minimum of 750 points in aggregate out of 1000 points with minimum score of 60 per cent in mandatory fields (i.e. criteria 4 to 6)
 - ii. Number of available Ph.D. in the department should be greater than or equal to 30 per cent of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
 - iii. The admissions in the UG program under consideration should be more than or equal to 50 per cent, averaged over three academic years (including lateral entry), i.e., Current Academic Year minus One (CAYm1), Current Academic Year minus Two (CAYm2) and Current Academic Year minus Three (CAYM3).
 - iv. Faculty Student Ratio in the department should be less than or equal to 1:20, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).
 - v. At least 2 Professors or 1 Professor and 1 Associate Professor on regular basis with Ph.D. degree should be available in the respective department for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
 - vi. HOD of the program under consideration possesses Ph.D. degree in the Current Academic Year (CAY).

- 2. Accreditation for Three years will be accorded to a program on fulfilment of the following requirements:**
 - i. Program should score a minimum of 600 points with atleast 40 per cent marks in Criterion V (Faculty Information and Contributions).
 - ii. The admissions in the UG program under consideration should be more than or equal to 50 per cent, averaged over three academic years (including lateral entry), i.e., Current Academic Year minus One (CAYm1), Current Academic Year minus Two (CAYm2) and Current Academic Year minus Three (CAYM3).
 - iii. At least one Professor or one Associate Professor on regular basis with Ph.D. degree is available in the respective department for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
 - iv. The faculty student ratio in the department under consideration should be less than or equal to 1:25, averaged over three academic years i.e. Current Academic Year

(CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).

- v. Number of Ph.D. available in the department should be greater than or equal to 10 per cent of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

No Accreditation of the program

If the program fails to meet the criteria for award of accreditation for three years, it is awarded "Not Accredited" Status

Department/Programme Specific Criteria:

S.no.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Vision, Mission and Program Educational Objectives	60	40	
2.	Program Curriculum and Teaching-Learning Processes	120	77	
3.	Course Outcomes and Program Outcomes	120	82	
4.	Students' Performance	150	86	
5.	Faculty Information and Contributions	200	129	
6.	Facilities and Technical Support	80	56	
7.	Continuous Improvement	50	26	
TOTAL		780	496	



Signature

(Program Evaluator 1)

(Dr. Ashutosh Gupta)

Signature

(Program Evaluator 2)

Declaration of Conformity with evaluator's report by the Team Chair


I agree with the observations of the program evaluators on each criterion.



Or

I agree with most of the observations of the program evaluators. However, I have following comments to make on certain criteria:

Criteria	Comments


26.4.2022
(Prof. YDS Ays)
Signature
(Chairperson)

Part B-Program Assessment Worksheet

Program Level Criteria - To be Assessed by Evaluator

Name of the Institution Government College of Engineering & Research, Avasarikhard, Dist. Pune (Mah.)
 Name of the Program UG in Automobile Engineering

Criterion 1: Vision, Mission and Program Educational Objectives (60)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
1.1.	State the Vision and Mission of the Department and Institute	5	A. Availability of statements of the Departments (1)	1	04	Overall Marks for 1.1	
			B. Appropriateness/Relevance of the Statements (2)	2			
			C. Consistency of the Department statements with the Institute statements (2)	1			
1.2.	State the Program Educational Objectives (PEOs)	5	Program Educational Objectives (3 to 5) (5) Appropriateness	04	04	Overall Marks for 1.2	
1.3.	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	10	A. Adequacy in respect of publication & dissemination (2)	2	06	Overall Marks for 1.3	Employers and Parents participation is missing Awareness among students is limited.
			B. Process of dissemination among stakeholders (2)	1			
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (6)	3			
1.4.	State the process for defining the Vision and Mission of the Department, and PEOs of the program	25	A. Description of process for defining the Vision, Mission of the Department (10)	06	15	Overall Marks for 1.4	Participation of all stake holders are not seen
			B. Description of process for defining the PEOs of the program (15)	09			
1.5.	Establish consistency of PEOs with Mission of the Department	15	A. Preparation of a matrix of PEOs and elements of Mission statement (5)	04	11	Overall Marks for 1.5	No proper justification/correlation is evident in some parameters of mission statement.
			B. Consistency/justification of co-relation parameters of the above matrix (10)	07			
Total of Criterion 1:		60		Overall Marks for Criterion 1:		40	



Signature (Program Evaluator 1)

(Dr. Ashutosh Gupta)

Signature (Program Evaluator 2)

Criterion 2: Program Curriculum and Teaching – Learning Processes (120)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
2.1.	Program Curriculum	20					
2.1.1.	State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any	10	A. Process used to identify extent of compliance of University curriculum for attaining POs & PSOs (6) B. List the curricular gaps for the attainment of defined POs & PSOs (4)	04 03	07	Overall Marks for 2.1 13	Limited actions have been taken to bridge the gaps for content beyond syllabus.
2.1.2.	State the delivery details of the content beyond the syllabus for the attainment of POs & PSOs	10	A. Steps taken to get identified gaps included in the curriculum.(letter to university/BOS) (2) B. Delivery details of content beyond syllabus (5) C. Mapping of content beyond syllabus with the POs & PSOs (3)	01 03 02	06		Limited delivery of content beyond syllabus. Few gaps have been identified in curriculum.
2.2.	Teaching-Learning Processes	100					
2.2.1	Describe the Process followed to improve quality of Teaching Learning	25	A. Adherence to Academic Calendar (3) B. Use of various instructional methods and pedagogical initiatives (3) C. Methodologies to support weak students and encourage bright students(4) D. Quality of classroom teaching (Observation in a Class) (3) E. Conduct of experiments (Observation in Lab)(3) F. Continuous Assessment in the laboratory (3) G. Student feedback on teaching learning process and actions taken (6)	03 02 01 02 02 02 04	16	Overall Marks for 2.2	
2.2.2.	Quality of internal semester Question papers, assignments and Evaluation	20	A. Process for internal semester question paper setting, evaluation and effective process implementation (5) B. Process to ensure questions from outcomes/learning levels perspective (5) C. Evidence of COs coverage In class test / mid-term tests (5) D. Quality of Assignment and its relevance to COs (5)	04 03 03 03	13	64	Level of understanding as per bloom's taxonomy is missing in question papers setting.



Signature (Program Evaluator 1)

(Dr. Ashutosh Gupta)

Signature (Program Evaluator 2)

2.2.3.	Quality of student projects	25	A. Identification of projects and allocation methodology to Faculty (3)	02	19	Students publications are limited.
			B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs(5)	04		
			C. Process for monitoring and evaluation (5)	04		
			D. Process to assess individual and team performance(5)	04		
			E. Quality of completed projects/working prototypes (5)	04		
			F. Evidences of papers published /Awards received by projects etc. (2)	01		
2.2.4.	Initiatives related to Industry interaction	15	A. Industry supported laboratories (5)	00	06	No Industry supported Lab No industry interaction in design of curriculum part.
			B. Industry involvement in the program design and partial delivery of any regular courses for students (5)	03		
			C. Impact analysis of industry institute interaction and actions taken thereof (5)	03		
2.2.5.	Initiatives related to industry internship/summer training	15	A. Industrial training/tours for students (3)	03	10	
			B. Industrial /Internship /summer training of more than two weeks and post training Assessment (4)	03		
			C. Impact analysis of industrial training (4)	02		
			D. Student feedback on initiative (4)	02		
Total of Criterion 2:		120	Overall Marks for Criterion 2:		77	



Signature (Program Evaluator 1)

(Dr. Ashutosh Gupta)

Signature (Program Evaluator 2)

Criterion 3: Course Outcomes and Program Outcomes (120)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
3.1.	Establish the correlation between the courses and the POs & PSOs	20				Overall Marks for 3.1 14	Limited explanation for attainment level.
3.1.1.	Course Outcomes	5	Evidence of COs being defined for every course (5)	04	04		
3.1.2.	CO-PO/PSOs matrices of courses selected in 3.1.1 (six matrices)	5	Explanation of table to be ascertained (5)	04	04		
3.1.3.	Program level Course-PO/PSOs matrix of ALL courses including first year courses	10	Explanation of tables to be ascertained (10)	06	06		
3.2.	Attainment of Course Outcomes	50				Overall Marks for 3.2 36	Process requires revisit Assessment is based on average marks obtained by students in Exam.
3.2.1.	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based	10	A. List of assessment processes (2)	02	08		
			B. The quality /relevance of assessment processes & tools used (8)	06			
3.2.2.	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	40	Verify the attainment levels as per the benchmark set for all courses (40)	28	28		
3.3.	Attainment of Program Outcomes and Program Specific Outcomes	50				Overall Marks for 3.3 32	
3.3.1.	Describe assessment tools and processes used for assessing the attainment of each of the POs & PSOs	10	A. List of assessment tools & processes (5)	03	06		
			B. The quality/relevance of assessment tools/processes used (5)	03			
3.3.2.	Provide results of evaluation of each PO & PSO	40	A. Verification of documents, results and level of attainment of each PO/PSO (24)	14	26		
			B. Overall levels of attainment (16)	12			
Total of Criterion 3:		120		Overall Marks for Criterion 3:		82	

Signature (Program Evaluator 1)

(Dr. Ashwath Gupta)

Signature (Program Evaluator 2)

Criterion 4: Students' Performance (150)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)																				
				Marks	Total																						
4.1.	Enrolment Ratio (20)	20	A. >= 90% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (20)	16	16	16 Overall Marks for 4.1	<table border="0"> <tr> <td></td> <td>CAY 20-21</td> <td>CAYm1 19-20</td> <td>CAYm2 18-19</td> </tr> <tr> <td>Intake (N)</td> <td>60</td> <td>60</td> <td>60</td> </tr> <tr> <td>Enroll (Ni)</td> <td>49</td> <td>40</td> <td>44</td> </tr> <tr> <td>$\frac{N_i}{N}$</td> <td>81.67</td> <td>66.67</td> <td>73.33</td> </tr> <tr> <td>Av =</td> <td colspan="3">73.89</td> </tr> </table>		CAY 20-21	CAYm1 19-20	CAYm2 18-19	Intake (N)	60	60	60	Enroll (Ni)	49	40	44	$\frac{N_i}{N}$	81.67	66.67	73.33	Av =	73.89		
								CAY 20-21	CAYm1 19-20	CAYm2 18-19																	
			Intake (N)					60	60	60																	
			Enroll (Ni)					49	40	44																	
			$\frac{N_i}{N}$					81.67	66.67	73.33																	
			Av =					73.89																			
B. >= 80% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (18)																											
C. >= 70% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (16)																											
D. >= 60% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (14)																											
E. >= 50% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (12)																											
F. Otherwise '0'.																											
4.2.	Success Rate in the stipulated period of the program	40																									
4.2.1.	Success rate without backlogs in any Semester/year of study Without Backlog means no compartment or failures in any semester/year of study	25	SI= (Number of students who graduated from the program without backlog)/(Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable) Average SI = Mean of success index (SI) for past three batches Success rate without backlogs in any year of study = 25 x Average SI	05	05	Overall Marks for 4.2 15	2016-20 = 0.26 (CAYm4) 2015-19 = 0.20 (CAYm5) 2014-18 Mention Numbers Av = <u>0.20</u>																				
4.2.2.	Success rate in stipulated period (actual duration of the program) [Total of with backlog + without backlog]	15	SI= (Number of students who graduated from the program in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable) Average SI = mean of success index (SI) for past three batches Success rate = 15 x Average SI	10	10		CAYm4 = 0.77 CAYm5 = 0.76 CAYm6 = 0.49 Av = 0.67																				
4.3.	Academic Performance in Third Year	15	Academic Performance = 1.5 * Average API (Academic Performance Index) API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the final year	09	09		CAYm1 = 7.28 CAYm2 = 5.85 CAYm3 = 5.61 Av API = 6.25 A Perf = 1.5 x 6.25 = 9.37																				

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4.4.	Academic Performance in Second Year	15	Academic Performance Level = 1.5 * Average API (Academic Performance Index) API = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful student sin Second Year/10)) x (successful students/number of students appeared in the examination)	09	09	09 Overall Mark for 4.4	$CAYM1 = 8.03$ $CAYM2 = 5.24$ $CAYM3 = 5.68$ $Av API = 6.31$ $Acc. Perf. = 1.5 \times 6.31 = 9.46$
4.5.	Placement, Higher studies and Entrepreneurship	40	Assessment Points = 40 x average of three years of [(x + y + z)/N] where, x = Number of students placed in companies or Government sector through on/off campus recruitment, y = Number of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National level tests, GRE, GMAT etc.), z = No. of students turned entrepreneur in engineering/technology N = Total number of final year students	20	20	Overall Marks for 4.5 20	$2019-20 \rightarrow P_1 = 0.54$ $2018-19 \rightarrow P_2 = 0.49$ $2017-18 \rightarrow P_3 = 0.50$ $Av. Place. Index = 0.51$ $Marks = 40 \times 0.51 = 20.4$
4.6.	Professional Activities	20					
4.6.1.	Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3) B. Number, quality of engineering events (organized at institute, Level- Institute/State/National/International) (2)	03	05	Overall Marks for 4.6 17	
4.6.2.	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the contents and Print Material (3) B. Participation of Students from the program (2)	02	04		
4.6.3.	Participation in inter-institute events by students of the program of study (at other institutions)	10	A. Events within the state (2) B. Events outside the state (3) C. Prizes/awards received in such events (5)	02 02 04	08		
Total of Criterion 4:		150		Overall Marks for Criterion 4:			86

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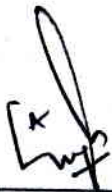
Criterion 5: Faculty Information and Contributions (200)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
5.1.	Student-Faculty Ratio (SFR)	20	<p>Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below:</p> <p><= 15 - 20 Marks <= 17 - 18 Marks <= 19 - 16 Marks <= 21 - 14 Marks <= 23 - 12 Marks <= 25 - 10 Marks > 25 - 0 Marks</p> <p>Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:</p> <ol style="list-style-type: none"> 1. Shall have the AICTE prescribed qualifications and experience. 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration. 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit 	12	12	Overall Marks for 5.1 12	<p>CAY (2020-21) No. of students = 204 No. of faculty = 9.97 (considering Fraction) SFR = 20.46</p> <p>CAYm1 (2019-20) No. of students = 210 No. of faculty = 9.59</p> <p>CAYm2 (2018-19) No. of students = 216 No. of faculty = 9.59 SFR = 23.77</p> <p>Av. SFR = 22.04</p>
5.2.	Faculty Cadre Proportion	25	<p>Cadre Proportion Marks =</p> $\left[\left(\frac{AF1}{RF1} \right) + \left(\frac{AF2 \times 0.6}{RF2} \right) + \left(\frac{AF3 \times 0.4}{RF3} \right) \right] \times 12.5$ <ul style="list-style-type: none"> • If AF1 = AF2 = 0 then zero marks • Maximum marks to be limited if it exceeds 25 (Refer calculation in SAR) 	22	22	Overall Marks for 5.2 22	<p>Faculty Cadre Marks = 22 Mention numbers</p>
5.3.	Faculty Qualification	25	<p>FQ = 2.5 x [(10X + 4Y)/F] where, X is no. of faculty with Ph.D., Y is no. of faculty with M.Tech, F is no. of faculty required to comply 1:20 Faculty Student ratio (no. of faculty and no. of students required to be calculated as per 5.1)</p>	13	13	Overall Marks for 5.3 13	<p>2020-21 FQ = 13 2019-20 FQ = 13 2018-19 FQ = 13 Av = 13</p>
5.4	Faculty Retention	25	<p>A. ≥ 90% of required Faculties retained during the period of assessment keeping CAYm2 as base year (25)</p> <p>B. ≥ 75% of required Faculties retained during the period of assessment keeping CAYm2 as base year (20)</p> <p>C. ≥ 60% of required Faculties retained during the period of assessment keeping CAYm2 as base year (15)</p>	25	25	Overall Marks for 5.4 25	<p>Retention = 100%</p>

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		D. \geq 50% of required Faculties retained during the period of assessment keeping CAYm2 as base year (10)				
		E. Otherwise (0)				



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5.5.	Innovations by the Faculty in Teaching and Learning	20	A. The work must be made available on Institute Website (4)	02	05	05	Overall Marks for 5.5	No smart classroom in department - Internet facility is poor.
			B. The work must be available for peer review and critique (4)	00				
			C. The work must be reproducible and developed further by other scholars (2)	00				
			D. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique (10)	03				
5.6	Faculty as participants in Faculty development /training activities /STTPs	15	For each year: Assessment = $3 \times \text{Sum} / 0.5RF$ Average assessment over last three years starting from CAYm1 (Marks limited to 15)	15	15	Overall Marks for 5.6	Av. Assessment = 17.48	
5.7.	Research and Development	30						
5.7.1.	Academic Research	10	A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)	02	05	Overall Marks for 5.7	Quality of Research Paper is not good.	
			B. PhD guided /PhD awarded during the assessment period while working in the institute (4)	03				
5.7.2	Sponsored Research	5	Funded research from outside; Cumulative CAYm1, CAYm2 and CAYm3: Amount > 20 Lakh - 5 Marks Amount >= 16 Lakh and <= 20 Lakh - 4 Marks Amount >= 12 Lakh and < 16 Lakh - 3 Marks Amount >= 8 Lakh and < 12 Lakh - 2 Marks Amount >= 4 Lakh and < 8 Lakh - 1 Mark Amount < 4 Lakh - 0 Mark	00	00	09	No sponsored research project Mention numbers	
5.7.3	Development Activities	10	A. Product Development B. Research laboratories C. Instructional materials D. Working models/charts/monograms etc.	04	04	09	No Research Lab. No significant Product-development activity	
5.7.4.	Consultancy (From Industry)	5	Consultancy; Cumulative CAYm1, CAYm2 and CAYm3: Amount > 10 Lakh - 5 Marks Amount >= 8 Lakh and <= 10 Lakh - 4 Marks Amount >= 6 Lakh and < 8 Lakh - 3 Marks Amount >= 4 Lakh and < 6 Lakh - 2 Marks Amount >= 2 Lakh and < 4 Lakh - 1 Mark Amount < 2 Lakh - 0 Mark	00	00	09	No consultancy work Mention numbers	
5.8.	Faculty Performance Appraisal and Development System (FPADS)	30	A. A well defined performance appraisal and development system Instituted for all the assessment years (10)	06	18	Overall Marks for 5.8		
			B. Its implementation and effectiveness (20)	12				
5.9.	Visiting/Adjunct/Emeritus Faculty etc.	10	Provision of Visiting /Adjunct/Emeritus faculty etc.(1)	01	10	Overall Marks for 5.9		
			Minimum 50 hours per year interaction per year to obtain three marks : $3 \times 3 = 9$	09				
Total of Criterion 5:		200				Overall Marks for Criterion 5:	129	

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Criterion 6: Facilities and Technical Support (80)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
6.1.	Adequate and well equipped laboratories, and technical manpower	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)	14	20	Overall Marks for 6.1	
			B. Availability of adequate technical supporting staff (5)	03			
			C. Availability of qualified technical supporting staff (5)	03			
6.2.	Additional Facilities created for improving the quality of learning experience in Laboratories	25	A. Availability and relevance of additional facilities(10)	06	15	Overall Marks for 6.2	
			B. Facilities utilization and effectiveness (10)	06			
			C. Relevance to POs and PSOs (5)	03			
6.3.	Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)	08	08	Overall Marks for 6.3	
6.4.	Project laboratory	5	Facilities & Utilization (5)	05	05	Overall Marks for 6.4	
6.5.	Safety measures in laboratories	10	Safety measures in laboratories (10)	08	08	Overall Marks for 6.5	
Total of Criterion 6:		80	Marks for Criterion 6:		56		



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Criterion 7: Continuous Improvement (50)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
7.1.	Actions taken based on the results of evaluation of each of the POs and PSOs	20	A. Documentation of POs and PSOs attainment levels (5)	04	13	Overall Marks for 7.1	Plan of action and its implementation requires review.
			B. Identification of gaps/shortfalls (5)	03			
			C. Plan of action to bridge the gap and its Implementation (10)	06			
7.2.	Academic Audit and actions taken during the period of Assessment	10	Assessment shall be based on conduct and actions taken in relation to continuous improvement (10)	06	06	Overall Marks for 7.2	Academic audit - is not visible.
7.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	02	02	Overall Marks for 7.3	NO Improvement in Higher studies and entrepreneurship
			B. Improvement in Higher Studies admissions (3)	00			
			C. Improvement in number of Entrepreneurs (2)	00			
7.4.	Improvement in the quality of students admitted to the program	10	Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrance tests, percentage Physics, Chemistry and Mathematics marks in 12th Standard and percentage marks of the lateral entry students	05	05	Overall Marks for 7.4	Quality of students admitted through entrance test is deteriorating
Total of Criterion 7:		50		Marks for Criterion 7:		26	



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Part B-Program Assessment Worksheet Institute Level Criteria to be Assessed by Chairman

Name of the Institution:

Government College of Engineering and
Research, A/P Avasari (Khurd), Tal.
Ambegaon, Dist. Pune, Maharashtra

Name of the Program: Automobile Engg.

Criterion 8: First Year Academics (50)								
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)	
				Marks	Total			
8.1.	First Year Student- Faculty Ratio (FYSFR)	5	For each year of assessment = $(5 \times 20) / \text{FYSFR}$ (Limited to Max. 5) Average of previous three academic years including Current Academic Year. *Note: If FYSFR is greater than 25, then assessment equal to zero.	0	0	0	SFR 1: 34	
8.2.	Qualification of Faculty Teaching First Year Common Courses	5	A. Assessment of faculty qualification $(5x + 3y) / \text{RF}$ B. Average of Assessment of last three years including current academic year (Refer 8.2. for x, y and RF)	3.6	3.6	3.6	As per calculations	
8.3.	First Year Academic Performance	10	Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x (successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the Second year	7.8	7.8	7.8	As per calculations	
8.4.	Attainment of Course Outcomes of first year courses	10				7.5		
8.4.1.	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is based	5	A. List of assessment processes (1)	0.5	3.5		7.5	Process is as required
			B. The relevance of assessment tools used (4)	3.5				
8.4.2.	Record the attainment of Course Outcomes of all first year courses	5	Verify the records as per the benchmark set for the courses (5)	3.5	3.5			
8.5.	Attainment of Program Outcomes of all first year courses	20						
	Indicate results of evaluation of each		A. Process of computing POs/PSOs attainment level from the COs of related first year courses (5)	4.0			Target levels are clumsy	

8.5.1.	relevant PO/PSO	15	B. Verification of documents validating the above process (10)	8.0	16.0	16.0	UG Engineering Tier-II
8.5.2.	Actions taken based on the results of evaluation of relevant POs /PSOs	5	Appropriate actions taken (5)	4.0			
Total of Criterion 8:		50	Overall Marks for Criterion 8:		35		


Signature of Chairman

Criterion 9: Student Support Systems (50)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
9.1.	Mentoring system to help at individual level	5	Details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system (5)	3.0	3.	3.0	Scheduled meetings are not there.
9.2.	Feedback analysis and reward /corrective measures taken, if any	10	A. Methodology being followed for analysis of feedback and its effectiveness (5)	4	8	8	Proper process in place.
			B. Record of corrective measures taken (5)	4			
9.3.	Feedback on facilities	5	Feedback collection, analysis and corrective action (5)	3.0	3.0	3.0	Collected in bits and peaces.
9.4.	Self Learning	5	A. Scope for self-learning (2)	1.5	4	4	Good, with lot of certifications.
			B. Self Learning facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization (3)	2.5			
9.5.	Career Guidance, Training, Placement	10	A. Availability of career guidance facilities (2)	2.0	6	6	Not much stress on competitive examinations.
			B. Counseling for higher studies (GATE/GRE, GMAT, etc.) (2)	1.0			
			C. Pre-placement training (3)	1.5			
			D. Placement process and support (3)	1.5			
9.6.	Entrepreneurship Cell	5	A. Entrepreneurship initiatives (1)	0.5	2.5	2.5	Needs a lot of improvement
			B. Data on students benefitted (4)	2.0			
9.7.	Co-curricular and Extra-curricular Activities	10	A. Availability of sports and cultural facilities (3)	2.0	7.5	7.5	National representation is also there.
			B. NCC, NSS and other clubs (3)	2.5			
			C. Annual students activities (4)	3			
Total of Criterion 9:		50	Overall Marks for Criterion 9:		34	34	


Signature of Chairman

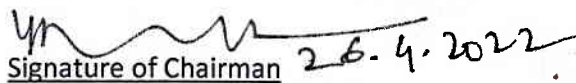
Criterion 10: Governance, Institutional Support and Financial Resources (120)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
10.1.	Organization, Governance and Transparency	40				33	
10.1.1.	State the Vision and Mission of the Institute	5	A. Availability of the Vision & Mission statements of the Institute (2)	2.0	4		Revisited and revised.
			B. Appropriateness/Relevance of the Statements (3)	2.0			
10.1.2.	Governing body, administrative setup, functions of various bodies, service rules procedures, recruitment and promotional policies	10	A. Governing Body Composition, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein (4)	4	9		Properly made committees.
			B. The published service rules, policies and procedures with year of publication (3)	2.5			
			C. Minutes of the meetings and action-taken reports (3)	2.5			
10.1.3.	Decentralisation in working and grievance redressal mechanism	10	A. List the names of the faculty members who have been delegated powers for taking administrative decisions (1)	0.5	8		
			B. Specify the mechanism and composition of grievance redressal cell (2)	1.5			
			C. Action taken report as per 'B' above (7)	6.0			
10.1.4.	Delegation of financial powers	10	A. Financial powers delegated to the Principal, Heads of Departments and relevant in-charges (3)	2.5	8		Available on web site
			B. Demonstrate the utilization of financial powers for each of the assessment years (7)	5.5			
10.1.5.	Transparency and availability of correct/unambiguous information in public domain	5	A. Information on the policies, rules, processes is to be made available on web site (2)	1.5	4.0		
			B. Dissemination of the information about student, faculty and staff (3)	2.5			
10.2.	Budget Allocation, Utilization, and Public Accounting at Institute level	30	Expenditure per student : 1.2L/year			22	
			Fee per student: 13K/year				
10.2.1.	Adequacy of Budget allocation	10	A. Quantum of budget allocation for three years (5)	4.5	9		
			B. Justification of budget allocated for three years (5)	4.5			
10.2.2.	Utilization of allocated funds	15	Budget utilization for three years (15)	13	13		

10.2.3.	Availability of the audited statements on the institute's website	5	Availability of Audited statements on website (5)	5	5	5	
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10.3.	Program Specific Budget Allocation, Utilization	30	To be evaluated in consultation with the Program Experts			26	Proper budget procedures.	
10.3.1.	Adequacy of budget allocation	10	A. Quantum of budget allocation for three years (5)	4.5	9			
			B. Justification of budget allocated for three years (5)	4.5				
10.3.2.	Utilization of allocated funds	20	Budget utilization for three years (20)	17	17			
10.4.	Library and Internet	20				16		
10.4.1.	Quality of learning resources (hard/soft)	10	A. Availability of relevant learning resources including e-resources and Digital Library (7)	6	8.5			
			B. Accessibility to students (3)	2.5				
10.4.2.	Internet	10	A. Available bandwidth (4)	3.0	7.5			
			B. Wi Fi availability (2)	1.5				
			C. Internet access in labs, classrooms, library and offices of all Departments (2)	1.5				
			D. Security mechanism (2)	1.5				
Total of Criterion 10:		120	Overall Marks for Criterion 10:			102		


Signature of Chairman 26.4.2022

Prof YDS Ayya

PART A

Evaluator's Visit Report

Undergraduate Engineering Program

Tier-II

Name of the Institution

**Government College of Engineering and Research
Avasari Khurd, Ambegaon - 412405
Distt. Pune (Maharashtra)**

Name of the Program

UG Program in Mechanical Engineering

Visit Dates

April 22-24, 2022

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi 110003

Tel: +91 112430620-22; 01124360654; www.nbaind.org

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from April 22 to 24, 2022 to evaluate UG Engineering program Mechanical Engineering

Pre visit meeting of the experts was held on at April 21, 2022 to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr Dilip R. Pangavhane. The briefing on the institution was given by Dr Dilip R. Pangavhane and on the program was given by Dr S A Sonawane. The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	✓	<input type="checkbox"/>	Alumni	✓	<input type="checkbox"/>
Employers	✓	<input type="checkbox"/>	Parents	✓	<input type="checkbox"/>
Staff members	✓	<input type="checkbox"/>	Students	✓	<input type="checkbox"/>

The Program Evaluation Team found that (general findings about the program to be mentioned)

It is a Government Engineering College established in 2009 in a rural area and is engaged to provide technical education to students of rural background. It has all basic infra structure, good laboratories with required equipment. Good number of dedicated faculty working very hard and with sincerity in development of the institute and department. They are required to help weaker students in their studies by means of extra guidance and teaching. The faculty members are also required to carry out the research and consultancy work.

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Program Details

Name of the Program: UG Program in Mechanical Engineering					
Year of Commencement	1980				
Student	Year	Sanctioned Intake	Actual Admitted (without Lateral Entry)		
	CAY (2020 - 2021)	60	58		
	CAY m1 (2019 - 2020)	60	60		
	CAY m2 (2018 - 2020)	60	60		
	Total Students in the Programme 1 st to Final Year		282		
	Average of CAY, CAYm1 and CAYm2		59		
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular		CAY	CAYm1	CAYm2
		Professor	1	1	1
		Associate professor	5	6	5
		Assistant professor	3	3	3
	Contractual	Professor	Nil	Nil	Nil
		Associate professor	Nil	Nil	Nil
		Assistant professor	Nil	Nil	Nil
	No. of PhD. available in the dept.		5	6	5
	Student - Faculty ratio (average of CAY, CAYm1 and CAYm2 (Refer criteria-5.1))		CAY 22.7, CAYm1 21.0, CAYm2 24.0 Average 22.6		
	Previous accreditation (if any)	First accreditation	No. of years accredited for	NA	
With effect from			NA		
Previous accreditation		No. of years accredited for	NA		
		With effect from	NA		

CAY: Current Academic Year

CAYm1: Current Academic Year minus 1= Current Assessment year

CAYm2: Current Academic Year minus 2= Current Assessment year minus 1

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Note: Consideration of Contractual Faculty means:

- All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:
 1. Shall have the AICTE prescribed qualifications and experience.
 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

- *Faculty to be calculated Department wise as per the format given in SAR; Faculty appointment letters, time table, subject allocation file, salary statements and random interaction in person.*
- *No. of students calculation as mentioned in the SAR (please refer table under criterion 3.1)*
- *Faculty Qualification as per AICTE guidelines shall only be counted*

Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title UG Program in Mechanical Engineering

Strengths:

1. Vision, Mission and PEOs statements are available and disseminated well. _____
2. Quality of UG projects is good but more technical papers are required to be published. _____
3. Cos are available and mapped with POs and PSOs. Attainment levels are calculated but seems to be very high. _____
4. Enrolment Ratio is good specially during pandemic of COVID 19 period. _____
5. SFR and Cadre ratio is satisfactory and good retention of faculty. _____
6. Good number of faculty members are possessing Ph D degree.
7. Faculty performance appraisal is in place but no action is taken by department or college for improvement.

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Weakness/Areas of improvement:

1. Process of formulation and modification of Vision, Mission and PEOs statements is not very clearly defined. _____
2. More efforts are required to improve industry institute interaction in terms of summer training Industrial visits, expert lectures. _____
3. The activities of professional societies (technical) including technical magazine are required.
4. Faculty development is required in terms of innovations, publications, research projects, Consultancy projects, testing, faculty development programs and short term training programs. _____
5. A good number of laboratories are in place but the facilities are available as per curriculum only. Supporting staff is available but the facilities beyond syllabus are not there. _____

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Deficiencies:

1. Contents beyond syllabus are not defined and efforts taken, are not available.
2. Success rate is less in all cases.
3. There is a strong need to improve placement data, higher studies data and Entrepreneurship data.
4. The academic audit by external experts is required.
5. _____
_____ *return*

Other Observations, if any:

1. _____

2. _____

3. _____

4. _____

5. _____

Information for Evaluation

Award of Accreditation (TIER II (UG))

- 1. Accreditation for Six years will be accorded to a program on fulfilment of the following requirements:**
 - i. Program should score a minimum of 750 points in aggregate out of 1000 points with minimum score of 60 per cent in mandatory fields (i.e. criteria 4 to 6)
 - ii. Number of available Ph.D. in the department should be greater than or equal to 30 per cent of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
 - iii. The admissions in the UG program under consideration should be more than or equal to 75 per cent and admissions at the overall institutional level should be more than or equal to 50 per cent, averaged over three academic, i.e., Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).
 - iv. Faculty Student Ratio in the department should be less than or equal to 1:20, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).
 - v. At least 2 Professors or 1 Professor and 1 Associate Professor on regular basis with Ph.D. degree should be available in the respective department for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
 - vi. HOD of the program under consideration possesses Ph.D. degree in the Current Academic Year (CAY).

- 2. Accreditation for Three years will be accorded to a program on fulfilment of the following requirements:**
 - i. Program should score a minimum of 600 points with atleast 40 per cent marks in Criterion V (Faculty Information and Contributions).
 - ii. The admissions in the UG program under consideration should be more than or equal to 50 per cent, averaged over three academic years (including lateral entry), i.e., Current Academic Year minus One (CAYm1), Current Academic Year minus Two (CAYm2) and Current Academic Year minus Three (CAYM3).
 - iii. At least one Professor or one Associate Professor on regular basis with Ph.D. degree is available in the respective department for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
 - iv. The faculty student ratio in the department under consideration should be less than or equal to 1:25, averaged over three academic years i.e. Current Academic Year

(CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).

- v. Number of Ph.D. available in the department should be greater than or equal to 10 per cent of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

No Accreditation of the program

If the program fails to meet the criteria for award of accreditation for three years, it is awarded "Not Accredited" Status

Department/Programme Specific Criteria:

S.no.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Vision, Mission and Program Educational Objectives	60	42	
2.	Program Curriculum and Teaching-Learning Processes	120	70	
3.	Course Outcomes and Program Outcomes	120	91	
4.	Students' Performance	150	79	
5.	Faculty Information and Contributions	200	127	>40%
6.	Facilities and Technical Support	80	46	
7.	Continuous Improvement	50	25	
TOTAL		780	480	

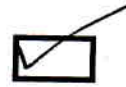
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(Program Evaluator 1)

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Signature
(Program Evaluator 2)

Declaration of Conformity with evaluator's report by the Team Chair


I agree with the observations of the program evaluators on each criterion.



Or

I agree with most of the observations of the program evaluators. However, I have following comments to make on certain criteria:

Criteria	Comments


Signature
(Chairperson) 26.4.2022
(Prof. YDS Ayya)

Part B-Program Assessment Worksheet

Program Level Criteria - To be Assessed by Evaluator

Name of the Institution Government College of Engineering and Research, Avasari Khurd, Ambegaon, Pune – 412405 (Maharashtra)
 Name of the Program UG Program in Mechanical Engineering

Criterion 1: Vision, Mission and Program Educational Objectives (60)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
1.1.	State the Vision and Mission of the Department and Institute	5	A. Availability of statements of the Departments (1)	1	4	4	Vision and Mission statements are quite general and lacking specific meaning.
			B. Appropriateness/Relevance of the Statements (2)	1			
			C. Consistency of the Department statements with the Institute statements (2)	2			
1.2.	State the Program Educational Objectives (PEOs)	5	Program Educational Objectives (3 to 5) (5) Appropriateness	5	5	5	Available and Good
1.3.	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	10	A. Adequacy in respect of publication & dissemination (2)	2	08	08	Published and disseminated well.
			B. Process of dissemination among stakeholders (2)	2			
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (6)	4			
1.4.	State the process for defining the Vision and Mission of the Department, and PEOs of the program	25	A. Description of process for defining the Vision, Mission of the Department (10)	05	12	12	Process is in place but not well defined.
			B. Description of process for defining the PEOs of the program (15)	07			
1.5.	Establish consistency of PEOs with Mission of the Department	15	A. Preparation of a matrix of PEOs and elements of Mission statement (5)	5	13	13	Well consistent with mission statements.
			B. Consistency/justification of co-relation parameters of the above matrix (10)	08			
Total of Criterion 1:		60		Overall Marks for Criterion 1:		42	

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Criterion 2: Program Curriculum and Teaching – Learning Processes (120)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
2.1.	Program Curriculum	20					
2.1.1.	State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any	10	A. Process used to identify extent of compliance of the University curriculum for attaining POs & PSOs (6)	4	08	11	Well stated however the weightage to subjects related to Humanities is very less..
			B. List the curricular gaps for the attainment of defined POs & PSOs (4)	4			
2.1.2.	State the delivery details of the content beyond the syllabus for the attainment of POs & PSOs	10	A. Steps taken to get identified gaps included in the Curriculum.(letter to university/BOS) (2)	2	03		Steps are taken to fill gap in curriculum. However nothing is available to have learning on contents beyond syllabus.
			B. Delivery details of content beyond syllabus (5)	1			
			C. Mapping of content beyond syllabus with the POs & PSOs (3)	0			
2.2.	Teaching-Learning Processes	100					
2.2.1	Describe the Process followed to improve quality of Teaching Learning	25	A. Adherence to Academic Calendar (3)	2	14	59	Attempts to improve teaching and learning are being made. There is no attempt to help the weaker students.
			B. Use of various instructional methods and pedagogical initiatives (3)	3			
			C. Methodologies to support weak students and encourage bright students(4)	0(ZERO)			
			D. Quality of classroom teaching (Observation in a Class) (3)	1			
			E. Conduct of experiments (Observation in Lab)(3)	2			
			F. Continuous Assessment in the laboratory (3)	2			
			G. Student feedback on teaching learning process and actions taken (6)	4			
2.2.2.	Quality of internal semester Question papers, assignments and Evaluation	20	A. Process for internal semester question paper setting, evaluation and effective process implementation (5)	3	09		Needs improvements. Process to ensure quality of internal question papers in not available.
			B. Process to ensure questions from outcomes/learning levels perspective (5)	1			
			C. Evidence of COs coverage in class test / mid-term tests (5)	3			
			D. Quality of Assignment and its relevance to COs (5)	2			

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2.2.3.	Quality of student projects	25	A. Identification of projects and allocation methodology to Faculty (3)	3	19	Some publications of research paper based on student project are available. Quality of projects is good and practical problems are taken..
			B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs(5)	4		
			C. Process for monitoring and evaluation (5)	4		
			D. Process to assess individual and team performance(5)	3		
			E. Quality of completed projects/working prototypes (5)	4		
			F. Evidences of papers published /Awards received by projects etc. (2)	1		
2.2.4.	Initiatives related to industry interaction	15	A. Industry supported laboratories (5)	1	08	Interaction with nearby industries is in place. No laboratory is being developed in collaboration with any industry.
			B. Industry involvement in the program design and partial delivery of any regular courses for students (5)	3		
			C. Impact analysis of industry institute interaction and actions taken thereof (5)	4		
2.2.5.	Initiatives related to industry internship/summer training	15	A. Industrial training/tours for students (3)	3	09	Interaction is in place but no feedback is collected either from students or from industries..
			B. Industrial /internship /summer training of more than two weeks and post training Assessment (4)	2		
			C. Impact analysis of industrial training (4)	3		
			D. Student feedback on initiative (4)	1		
Total of Criterion 2:		120	Overall Marks for Criterion2:		70	

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Criterion 3: Course Outcomes and Program Outcomes (120)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
3.1.	Establish the correlation between the courses and the POs & PSOs	20				17	
3.1.1.	Course Outcomes	5	Evidence of COs being defined for every course (5)	5	5		COs of all subjects are available.
3.1.2.	CO-PO/PSOs matrices of courses selected in 3.1.1 (six matrices)	5	Explanation of table to be ascertained (5)	4	4		Matrices are in place.
3.1.3.	Program level Course-PO/PSOs matrix of ALL courses including first year courses	10	Explanation of tables to be ascertained (10)	08	08		Explanations were available.
3.2.	Attainment of Course Outcomes	50				38	
3.2.1.	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based	10	A. List of assessment processes (2)	2	08		Assessment processes for COs are available.
			B. The quality /relevance of assessment processes & tools used (8)	6			
3.2.2.	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	40	Verify the attainment levels as per the benchmark set for all courses (40)	30	30	Attainments are established.	
3.3.	Attainment of Program Outcomes and Program Specific Outcomes	50				36	
3.3.1.	Describe assessment tools and processes used for assessing the attainment of each of the POs & PSOs	10	A. List of assessment tools & processes (5)	3	06		Assessment tools are good and presented.
			B. The quality/relevance of assessment tools/processes used (5)	3			
3.3.2.	Provide results of evaluation of each PO & PSO	40	A. Verification of documents, results and level of attainment of each PO/PSO (24)	20	30		The evaluation of POs and PSOs are available. Results seems to be very high.
			B. Overall levels of attainment (16)	10			
Total of Criterion 3:		120				91	

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Criterion 4: Students' Performance (150)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
4.1.	Enrolment Ratio (20)	20	A. >= 90% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (20)	20	20	20	Enrolment Ratio is more than 90%. Intake: 60 2018-19 : 60 100% 2019-20 60 100% 2020-21 58 96.67% Average: 98.89%
			B. >= 80% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (18)				
			C. >= 70% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (16)				
			D. >= 60% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (14)				
			E. >= 50% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (12)				
			F. Otherwise '0'.				
4.2.	Success Rate in the stipulated period of the program	40					
4.2.1.	Success rate without backlogs in any Semester/year of study Without Backlog means no compartment or failures in any semester/year of study	25	SI= (Number of students who graduated from the program without backlog)/(Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable) Average SI = Mean of success index (SI) for past three batches Success rate without backlogs in any year of study = 25 × Average SI	11	11	24	Success Rate without backlogs is less.. Needs improvement. Average SI = $(0.53+0.30+0.45)/3 = 0.426$ Marks = 10.66 or 11
4.2.2.	Success rate in stipulated period (actual duration of the program) [Total of with backlog + without backlog]	15	SI= (Number of students who graduated from the program in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and actually admitted in 2nd-year via lateral entry and separate division, if applicable) Average SI = mean of success index (SI) for past three batches Success rate = 15 × Average SI	13	13		Success rate with or without backlogs is good. Average SI = $(0.87+0.87+0.78)/3 = 0.84$ Marks = 12.60 or 13
4.3.	Academic Performance in Third Year	15	Academic Performance = 1.5 * Average API (Academic Performance Index) API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) × (successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the final year	09	09	09	Needs improvement. Average API = $(7.48+6.08+3.89)/3 = 5.82$ Marks = 8.72 =09

Signature (Program Evaluator1)

Signature (Program Evaluator2)

4.4.	Academic Performance in Second Year	15	Academic Performance Level = 1.5 * Average API (Academic Performance Index) API = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful student sin Second Year/10)) x (successful students/number of students appeared in the examination)	09	09	09	Needs improvement. Average API = $(8.18+5.23+5.57)/3$ = 6.32 Marks = 9.48 = 9
4.5.	Placement, Higher studies and Entrepreneurship	40	Assessment Points = 40 x average of three years of $[(x + y + z)/N]$ where, x = Number of students placed in companies or Government sector through on/off campus recruitment, y = Number of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National level tests, GRE, GMAT etc.), z = No. of students turned entrepreneur in engineering/technology N = Total number of final year students	13	13	13	Placement, Higher Studies and Entrepreneurship is a serious concern. Efforts to improvement are needed. N = 65, 72, 69 X+Y+Z = 25, 20, 22 Placement Index 0.385, 0.28, 0.32 Average PI = 0.33 Marks = 13.13 = 13
4.6.	Professional Activities	20					
4.6.1.	Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3) B. Number, quality of engineering events (organized at institute, Level- Institute/State/National/International) (2)	0(ZERO)	1		No professional societies or chapters.
4.6.2.	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the contents and Print Material (3) B. Participation of Students from the program (2)	0(ZERO)	0(ZERO)		No technical magazine.
4.6.3.	Participation in inter-institute events by students of the program of study (at other institutions)	10	A. Events within the state (2) B. Events outside the state (3) C. Prizes/awards received in such events (5)	2 0(ZERO) 1	03		More participation in good institutions or industries is required.
Total of Criterion 4:		150		Overall Marks for Criterion4:		79	

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Criterion5: Faculty Information and Contributions(200)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
5.1	Student-Faculty Ratio (SFR)	20	<p>Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below:</p> <p><= 15 - 20 Marks <= 17 - 18 Marks <= 19 - 16 Marks <= 21 - 14 Marks <= 23 - 12 Marks <= 25 - 10 Marks</p> <p><i>Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:</i></p> <ol style="list-style-type: none"> 1. Shall have the AICTE prescribed qualifications and experience. 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration. 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit 	12	12	12	<p>SFR is within limits.</p> <p>SFR = CAY:22.7 = CAYm1: 21.0 CAYm2: 24.0 Average : 22.6 Marks : 12</p>
5.2	Faculty Cadre Proportion	25	<p>Cadre Proportion Marks =</p> $\left[\frac{AF1}{RF1} + \frac{AF2 \times 0.6}{RF2} + \frac{AF3 \times 0.4}{RF3} \right] \times 12.5$ <ul style="list-style-type: none"> • If AF1 = AF2= 0 then zero marks • Maximum marks to be limited if it exceeds 25 (Refer calculation in SAR) 	25	25	25	<p>Faculty cadre ratio is as per AICTE norms and governed by state government.</p> <p>RF1 = 1.22, RF2 = 2.44, RF3 = 7.33 AF1 = 1, AF2 = 5.33, AF3 = 4 Marks = 29.37 = 25</p>

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	Faculty Qualification	25	$FQ = 2.5 \times \{(10X + 4Y)/F\}$ where, X is no. of faculty with PHd, Y is no. of faculty with M.Tech, F is no. of faculty required to comply 1:20 Faculty Student ratio (no. of faculty and no. of students required to be calculated as per 5.1)	18	18	18	<p>The qualifications of faculty is as per AICTE norms. Quite a good number of faculty is having Ph D degree.</p> <p>FQ = 17.5, 18.18, 17.50 Average = 17.72 = 18</p>
5.4	Faculty Retention	25	<p>A. $\geq 90\%$ of required Faculties retained during the period of assessment keeping CAYm2 as base year (25)</p> <p>B. $\geq 75\%$ of required Faculties retained during the period of assessment keeping CAYm2 as base year (20)</p> <p>C. $\geq 60\%$ of required Faculties retained during the period of assessment keeping CAYm2 as base year (15)</p> <p>D. $\geq 50\%$ of required Faculties retained during the period of assessment keeping CAYm2 as base year (10)</p> <p>E. Otherwise (0)</p>	24	24	24	Retention of faculty depends on Government. Good retention. More than 90%.

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5.5.	Innovations by the Faculty in Teaching and Learning	20	A. The work must be made available on Institute Website (4)	1	10	10	No significant contribution.
			B. The work must be available for peer review and critique (4)	1			
			C. The work must be reproducible and developed further by other scholars (2)	2			
			D. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique (10)	06			
5.6	Faculty as participants in Faculty development /training activities /STTPs	15	For each year: Assessment = $3 \times \text{Sum} / 0.5\text{RF}$ Average assessment over last three years starting from CAYm1 (Marks limited to 15)	14	14	14	Good. $(11.45+18+15.27) / 3 = 14.90$
5.7.	Research and Development	30					
5.7.1.	Academic Research	10	A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)	6	08		One patent is awarded. Some publications are good.
			B. PhD guided /PhD awarded during the assessment period while working in the institute (4)	2			
5.7.2.	Sponsored Research	5	Funded research from outside; Cumulative CAYm1, CAYm2 and CAYm3: Amount > 20 Lakh - 5 Marks Amount >= 16 Lakh and <= 20 Lakh - 4 Marks Amount >= 12 Lakh and < 16 Lakh - 3 Marks Amount >= 8 Lakh and < 12 Lakh - 2 Marks Amount >= 4 Lakh and < 8 Lakh - 1 Mark Amount < 4 Lakh - 0 Mark	0(ZERO)	0(ZERO)	12	No research project available.
5.7.3	Development Activities	10	A. Product Development B. Research laboratories C. Instructional materials D. Working models/charts/monograms etc.	04	04		The development activities need improvement.
5.7.4.	Consultancy (From Industry)	5	Consultancy; Cumulative CAYm1, CAYm2 and CAYm3: Amount > 10 Lakh - 5 Marks Amount >= 8 Lakh and <= 10 Lakh - 4 Marks Amount >= 6 Lakh and < 8 Lakh - 3 Marks Amount >= 4 Lakh and < 6 Lakh - 2 Marks Amount >= 2 Lakh and < 4 Lakh - 1 Mark Amount < 2 Lakh - 0 Mark	0(ZERO)	0(ZERO)		No consultancy is available.
5.8.	Faculty Performance Appraisal and Development System (FPADS)	30	A. A well defined performance appraisal and development system instituted for all the assessment years (10)	09	09	09	Implementation data is not available.
			B. Its implementation and effectiveness (20)	0(ZERO)			
5.9.	Visiting/Adjunct/Emeritus Faculty etc.	10	Provision of Visiting /Adjunct/Emeritus faculty etc.(1)	1	03	03	Available. Part time classes are conducted as expert lectures.
			Minimum 50 hours per year interaction per year to obtain three marks : $3 \times 3 = 9$	2			
Total of Criterion 5:		200			Overall Marks for Criterion5:		127

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Criterion 6: Facilities and Technical Support (80)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
6.1.	Adequate and well equipped laboratories, and technical manpower	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)	14	18	18	Well equipped laboratories with adequate supporting staff
			B. Availability of adequate technical supporting staff (5)	2			
			C. Availability of qualified technical supporting staff (5)	2			
6.2.	Additional Facilities created for improving the quality of learning experience in Laboratories	25	A. Availability and relevance of additional facilities(10)	05	11	11	No significance additional facilities are available.
			B. Facilities utilization and effectiveness (10)	06			
			C. Relevance to POs and PSOs (5)	0(ZERO)			
6.3.	Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)	08	08	08	Well maintained and good ambience
6.4.	Project laboratory	5	Facilities & Utilization (5)	3	3	3	In place. More efforts are required to equipped it.
6.5.	Safety measures in laboratories	10	Safety measures in laboratories (10)	06	06	06	Safety measures are in place.
Total of Criterion 6:		80	Marks for Criterion 6:			46	

Notes

Criterion 7: Continuous Improvement (50)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
7.1.	Actions taken based on the results of evaluation of each of the POs and PSOs	20	A. Documentation of POs and PSOs attainment levels (5)	5	16	16	Efforts are being made to take action to reach attainment levels.
			B. Identification of gaps/shortfalls (5)	4			
			C. Plan of action to bridge the gap and its Implementation (10)	07			
7.2.	Academic Audit and actions taken during the period of Assessment	10	Assessment shall be based on conduct and actions taken in relation to continuous improvement (10)	01	01	01	No external academic audit. Internally auditing is done.
7.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	2	02	02	No significant improvement.
			B. Improvement in Higher Studies admissions (3)	0(ZERO)			
			C. Improvement in number of Entrepreneurs (2)	0(ZERO)			
7.4.	Improvement in the quality of students admitted to the program	10	Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrance tests, percentage Physics, Chemistry and Mathematics marks in 12th Standard and percentage marks of the lateral entry students	06	06	06	Significant improvement in quality of students admitted.
Total of Criterion 7:		50		Marks for Criterion 7:		25	

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Part B-Program Assessment Worksheet Institute Level Criteria to be Assessed by Chairman

Name of the Institution:

Government College of Engineering and
Research, A/P Avasari (Khurd), Tal.
Ambegaon, Dist. Pune, Maharashtra

Name of the Program: Mechanical Engg.

Criterion 8: First Year Academics (50)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
8.1.	First Year Student- Faculty Ratio (FYSFR)	5	For each year of assessment = $(5 \times 20) / \text{FYSFR}$ (Limited to Max. 5) Average of previous three academic years including Current Academic Year. *Note: If FYSFR is greater than 25, then assessment equal to zero.	0	0	0	SFR 1: 34
8.2.	Qualification of Faculty Teaching First Year Common Courses	5	A. Assessment of faculty qualification $(5x + 3y) / \text{RF}$ B. Average of Assessment of last three years including current academic year (Refer 8.2. for x, y and RF)	3.6	3.6	3.6	As per calculations
8.3.	First Year Academic Performance	10	Academic Performance = $((\text{Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale}) \text{ or } (\text{Mean of the percentage of marks in First Year of all successful students}/10)) \times (\text{successful students}/\text{number of students appeared in the examination})$ Successful students are those who are permitted to proceed to the Second year	7.9	7.9	7.9	As per calculations
8.4.	Attainment of Course Outcomes of first year courses	10				7.5	Process is as required
8.4.1.	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is based	5	A. List of assessment processes (1)	0.5	3.5		
			B. The relevance of assessment tools used (4)	3.5			
8.4.2.	Record the attainment of Course Outcomes of all first year courses	5	Verify the records as per the benchmark set for the courses (5)	3.5	3.5		
8.5.	Attainment of Program Outcomes of all first year courses	20					
	Indicate results of evaluation of each		A. Process of computing POs/PSOs attainment level from the COs of related first year courses (5)	4.0			Target levels are clumsy

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8.5.1.	relevant PO/PSO	15	B. Verification of documents validating the above process (10)	8.0	16.0	16.0	UG Engineering Tier-II
8.5.2.	Actions taken based on the results of evaluation of relevant POs /PSOs	5	Appropriate actions taken (5)	4.0			
Total of Criterion 8:		50	Overall Marks for Criterion 8:		35		



Signature of Chairman

Criterion 9: Student Support Systems (50)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
9.1.	Mentoring system to help at individual level	5	Details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system (5)	3.0	3.	3.0	Scheduled meetings are not there.
9.2.	Feedback analysis and reward /corrective measures taken, if any	10	A. Methodology being followed for analysis of feedback and its effectiveness (5)	4	8	8	Proper process in place.
			B. Record of corrective measures taken (5)	4			
9.3.	Feedback on facilities	5	Feedback collection, analysis and corrective action (5)	3.0	3.0	3.0	Collected in bits and peaces.
9.4.	Self Learning	5	A. Scope for self-learning (2)	1.5	4	4	Good, with lot of certifications.
			B. Self Learning facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization (3)	2.5			
9.5.	Career Guidance, Training, Placement	10	A. Availability of career guidance facilities (2)	2.0	6	6	Not much stress on competitive examinations.
			B. Counseling for higher studies (GATE/GRE, GMAT, etc.) (2)	1.0			
			C. Pre-placement training (3)	1.5			
			D. Placement process and support (3)	1.5			
9.6.	Entrepreneurship Cell	5	A. Entrepreneurship initiatives (1)	0.5	2.5	2.5	Needs a lot of improvement
			B. Data on students benefitted (4)	2.0			
9.7.	Co-curricular and Extra-curricular Activities	10	A. Availability of sports and cultural facilities (3)	2.0	7.5	7.5	National representation is also there.
			B. NCC, NSS and other clubs (3)	2.5			
			C. Annual students activities (4)	3			
Total of Criterion 9:		50	Overall Marks for Criterion 9:		34	34	



Signature of Chairman

Criterion 10: Governance, Institutional Support and Financial Resources (120)								
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines		Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
					Marks	Total		
10.1.	Organization, Governance and Transparency	40						
10.1.1.	State the Vision and Mission of the Institute	5	A. Availability of the Vision & Mission statements of the Institute (2)	2.0	4		33	Revisited and revised.
			B. Appropriateness/Relevance of the Statements (3)	2.0				
10.1.2.	Governing body, administrative setup, functions of various bodies, service rules procedures, recruitment and promotional policies	10	A. Governing Body Composition, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein (4)	4	9		33	Properly made committees.
			B. The published service rules, policies and procedures with year of publication (3)	2.5				
			C. Minutes of the meetings and action-taken reports (3)	2.5				
10.1.3.	Decentralisation in working and grievance redressal mechanism	10	A. List the names of the faculty members who have been delegated powers for taking administrative decisions (1)	0.5	8		33	Available on web site
			B. Specify the mechanism and composition of grievance redressal cell (2)	1.5				
			C. Action taken report as per 'B' above (7)	6.0				
10.1.4.	Delegation of financial powers	10	A. Financial powers delegated to the Principal, Heads of Departments and relevant in-charges (3)	2.5	8		33	Available on web site
			B. Demonstrate the utilization of financial powers for each of the assessment years (7)	5.5				
10.1.5.	Transparency and availability of correct/unambiguous information in public domain	5	A. Information on the policies, rules, processes is to be made available on web site (2)	1.5	4.0		33	Available on web site
			B. Dissemination of the information about student, faculty and staff (3)	2.5				
10.2.	Budget Allocation, Utilization, and Public Accounting at Institute level	30	Expenditure per student : 1.2L/year					
			Fee per student: 13K/year					
10.2.1.	Adequacy of Budget allocation	10	A. Quantum of budget allocation for three years (5)	4.5	9		22	
			B. Justification of budget allocated for three years (5)	4.5				
10.2.2.	Utilization of allocated funds	15	Budget utilization for three years (15)	13	13		22	

10.2.3.	Availability of the audited statements on the institute's website	5	Availability of Audited statements on website (5)	5	5	5	
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10.3. Program Specific Budget Allocation, Utilization		30	To be evaluated in consultation with the Program Experts			26	Proper budget procedures.	
10.3.1.	Adequacy of budget allocation	10	A. Quantum of budget allocation for three years (5)	4.5	9			
			B. Justification of budget allocated for three years (5)	4.5				
10.3.2.	Utilization of allocated funds	20	Budget utilization for three years (20)	17	17			
10.4. Library and Internet		20				16		
10.4.1.	Quality of learning resources (hard/soft)	10	A. Availability of relevant learning resources including e-resources and Digital Library (7)	6	8.5			
			B. Accessibility to students (3)	2.5				
10.4.2.	Internet	10	A. Available bandwidth (4)	3.0	7.5			
			B. Wi Fi availability (2)	1.5				
			C. Internet access in labs, classrooms, library and offices of all Departments (2)	1.5				
D. Security mechanism (2)			1.5					
Total of Criterion 10:		120	Overall Marks for Criterion 10:			102		


 Signature of Chairman 26.4.2022
 (Prof. YDS Arya)