

NAAC

**FOR QUALITY AND EXCELLENCE
IN HIGHER EDUCATION**



MATS UNIVERSITY

**SCHOOL OF
ENGINEERING
& I.T.**

MATS School of Engineering & IT
Evaluative Report of the Department

1. Name of the Department – Mechanical Engineering
2. Year of establishment – 2008
3. Is the Department part of a School/Faculty of the university? –YES
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D. Sc., D.Litt., etc.) – Diploma, B. Tech., M. Tech., Ph.D.
5. Interdisciplinary programmes and departments involved -NIL
6. Courses in collaboration with other universities, industries, foreign institutions, etc. - NIL
7. Details of programmes discontinued, if any, with reasons -NIL
8. Examination System: ~~Annual/Semester/Trimester/Choice Based Credit System~~ – Semester
9. Participation of the department in the courses offered by other departments –

Subject Taught	Department
Basic Mechanical Engineering	Computer Science & Engineering ,Civil Engineering, Electronics & Communication Engineering, Aeronautical Engineering, Mining Engineering.
Engineering Mechanics	Computer Science & Engineering ,Civil Engineering, Electronics & Communication Engineering, Aeronautical Engineering, mining engineering, Mining Engineering.
Engineering Drawing	Computer Science & Engineering ,Civil Engineering, Electronics & Communication Engineering, Aeronautical Engineering, Mining Engineering.
Fluid Mechanics	Civil Engineering, Aeronautical Engineering.
MOS	Civil Engineering, Aeronautical Engineering,

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Professor	1	0	0	1	1
Associate Professor	4	1	0	3	4
Assistant Professor	10	1	18	06	25

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. Of Years of Experience	M.Phil. students guided for the last 4 years
Dr. A.M. Bisen	BE., M. Tech., Ph. D	Director	Machine Design	19	Nil
MR. P. D. Patil	BE,MTECH, MBA	HOD	Production	17	Nil
Mr. A.D. Dubey	BE, ME, MBA, PGDPMIR	Asst. Prof.	Production	20	Nil
Mr. Abhilash Dahayat	BE, M Tech	Asst. Prof	Mechanical	8	Nil
Mr. Atul Pandey	BE	Lecturer	Mechanical	4.5	Nil
Mr. Vikas Verma	BE	Lecturer	Mechanical	2	Nil
Mr.Kundan Sahu	BE, MTECH	Asst.Prof	Mechanical	2.5	Nil

Mr.Ashish Pradhan	BE	Lecturer	Mechanical	3	Nil
Mr.Devendra Sinha	BE	Lecturer	Mechanical	1.5	Nil
Mr. Amit Verma	BE, MTECH	Asst.Prof	Mechanical	1.5	Nil
Mr. Alok Verma	BE, MTECH	Asst.Prof	Mechanical	1.5	Nil
Mr. Sameer Verma	BE	Asst.Prof	Mechanical	3.5	Nil
Mr. Dushyant Khalihar	BE, MTECH	Asst.Prof	Mechanical	5.5	Nil
Mr.Rahul Sahu	BE	Lecturer	Mechanical	1.5	Nil
Mr.Rajendra Patel	BE, ME	Asst.Prof	Mechanical	3	Nil
Ms. Sweena Kashyap	BE,MBA,	Asst.Prof	Mechanical	2	Nil
Mr.Pariwesh Thakare	BE,	Asst.Prof	Mechanical	1.4	Nil
Mr.Rupesh Khuntay	BE, MTECH	Asst.Prof	Mechanical	1.5	Nil
Bhavya Pathak	B.E.	Asst.Prof.	Mechanical	1	Nil
Chowa Ram	B.E.	Asst.Prof.	Mechanical	1	Nil
Dhananjay Sahu	B.E.	Asst.Prof.	Mechanical	1	Nil
Rahul Yadav	B.E.,M.Tech	Asst.Prof.	Mechanical	1	Nil
Deepak Patel	B.E.	Asst.Prof	Mechanical	1	Nil
Sagar Dewangn	B.E.	Asst.Prof.	Mechanical	1	Nil
Roshan Bhoi	B.E.	Asst.Prof.	Mechanical	1	Nil
Snehil vergish	B.E.	Asst.Prof.	Mechanical	1	Nil
Kamal kuar pradhan	B.E.	Asst.Prof.	Mechanical	1	Nil

Prashant kumar chandrawanshi	B.E.	Asst.Prof	Mechanical	1	Nil
Lovlesh grewal	B.E.	Asst.Prof.	Mechancial	1	Nil
Ms.Akanksh Suryawanshi	B.E.	Asst.Prof.	Mechanical	1.5	Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL
13. Percentage of classes taken by temporary faculty – programme-wise information :NIL
14. Programme-wise Student Teacher Ratio -15:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Lab Assistant	1	0	1	0	01
Office Assistant Gr. III	1	0	1	0	01
Peon	1	0	1	0	01

16. Research thrust areas as recognized by major funding agencies :NIL
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :NIL
18. Inter-institutional collaborative projects and associated grants received
- a) National collaboration : NIL
- b) International collaboration : NIL
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, - AICTE, etc.; total grants received. :NIL
20. Research facility / centre with
- state recognition :01
 - national recognition :01

- international recognition :NIL

21. Special research laboratories sponsored by / created by industry or corporate bodies - NIL

22. Publications:

- Number of papers published in peer reviewed journals (national / international) -

National/international Conference	National/international Journals
17	15

- Monographs :NIL
- Chapters in Books :NIL
- Edited Books :NIL
- Books with ISBN with details of publishers :NIL
- Number listed in International Database (For *e.g.* Web of Science, Scopes, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :NIL
- Citation Index - range / average :NIL
- SNIP :NIL
- SJR :NIL
- Impact Factor - range / average :Between 0.5 to 1
- h-index :NIL

23. Details of patents and income generated :NIL

24. Areas of consultancy and income generated :NIL

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad :NIL

26. Faculty serving in National committees b) International committees c) Editorial Boards d) any other (please specify) :NIL

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). :NIL

B.Tech.	120	0	105	3	79	0	52	03	0	0	8	0	12	0	15	1	0	0	0	0	0	0	0
B.Tech. III sem	07	01	07	1	10	0	13	0	04	00	4	0	0	0	2	0	0	0	0	0	0	0	0
Diploma	0	0	0	0	0	00	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. -NIL

35. Student progression

Student progression	Percentage against enrolled
UG to PG	2.04%
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	15%
• Other than campus recruitment	10%
Entrepreneurs	NIL

36. Diversity of staff

Percentage of faculty who are qualified	
of the same university	1.2%
from other universities within the State	97%
from universities from other States from	1.8%
universities outside the country	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period -NIL

38. Present details of departmental infrastructural facilities with regard to

- Library -ONE (centralised library)
- Internet facilities for staff and students -Wi-Fi, LAN
- Total number of class rooms -11

- d) Class rooms with ICT facility –smart class, projector
 e) Student’s laboratories -11

SR.	LABORATORIES
1	Engineering mechanics
2	Fluid machinery
3	Measurement & instrumentation
4	Material testing
5	Dynamics of machine
6	IC engine
7	Automobile
8	Thermal / RAC
9	Robotics
10	Work shop
11	Engg. Drawing

f) Research laboratories :01

39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/ university :03
- from other institutions/ universities :01

40. Number of post graduate students getting financial assistance from the university.
 :NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

YES ,Based on the informal interaction with the students the department initiated to start M.Tech in Turbo machinery & Diploma Course.

42. Does the department obtain feedback from

- a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? –

YES, Feedback received from faculty is placed before the departmental committee and placed in Staff Council Meeting.

- b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

YES, Every Academic year feedback is obtained by the department and the findings are communicated to the faculty individually. Every year the feedback is taken into account for confirmation/promotion.

- c) alumni and employers on the programmes offered and how does the department utilize the feedback? -No

43. List the distinguished alumni of the department (maximum 10)

SR.NO	NAME	BATCH
1.	SATISH KUMAR	2008-2012
2.	PARIWESH THAKRE	2008-2012
3.	DHANANJAY SAHU	2008-2012
4.	BHAVYA BHANU PATHAK	2008-2012
5.	CHOWA RAM SAHU	2009-2013
6.	GAOURAV GUPTA	2009-2013
7.	ABHISHEK SHARMA	2009-2013
8.	AKSHAY MISHRA	2009-2013
9.	SARATH KRISHANAN.R	2009-2013
10.	HIND KUMAR DEWANGAN	2009-2013

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.-

1. Seminar on computer application on mechanical engineering presented by
- Dr. A. Bamude Yashvant Rao Chouhan college of Engg. Nagpur.
2. Workshop on Basics of Robotics.

3. Workshop on genesis beginning on management by K. Patel H. R. D. Jaiswal NECO.
 4. Educational tour hindustan ship yard limited heavy plates industries Noval science lab.
45. List the teaching methods adopted by the faculty for different programmes.
1. Lecture by teacher
 2. Class discussion conducted by teacher
 3. Textbook assignments
 4. Presentation by a panel of instructors or students
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? –
1. Class Test
 2. Mid Sem
 3. Presentation
 4. Viva-Voce
 5. End Sem Exam
 6. Assignment
 7. Feedback From External
 8. Through Relevant Placement
47. Highlight the participation of students and faculty in extension activities.
1. Presentation
 2. Workshop
 3. Seminar
 4. Plantation
 5. Blood Donation Camp
48. Give details of “beyond syllabus scholarly activities” of the department.
1. Participation In Seminar
 2. Workshop
 3. Paper Presentation/Publication

4. Projects
5. Industrial Visit
6. Educational Tour

49. State whether the programme/ department is accredited/ graded by other agencies?

If yes, give details. -NIL

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

1. Workshop in Near By Schools
2. Special Lecture in Other College
3. Guest Lecture

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTHS	WEAKNESSES	OPPORTUNITIES	CHALLENGES
Punctuality	INADEQUATE CULTURE OF PUBLISHING RESEARCH RESULT	Tie-up with industries	100% result
Timely syllabus completion	WEAK RESEARCH MOBILITY AND OTHER EXPOSURE	Research work	100% placement
Good co-ordinations	UNDERUTILISATION OF FUNDING OPPORTUNITIES	Visit to other established university	International ranking
Teamwork	SELF APPRAISAL	Technological up-gradation of syllabus	Research work for benefit of society
Integration	Access to sufficient digital libraries	Workshops and seminars conducted for the	Students with diverse background.

		development of the faculty to develop their skills and academic challenges.	
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52. Future plans of the department.

1. Industrial visit of the student
2. CAD/CAM lab
3. workshops
4. Planning to form a Student Association
5. National Conference / Workshop
6. Alumni meet
7. Research lab
8. Up-gradation of workshop

Evaluative Report of the Department

1. Name of the Department :COMPUTER SCIENCE & ENGINEERING
2. Year of establishment: 2008.
3. Is the Department part of a School/Faculty of the university : YES
4. Names of programmes offered : UG(B. Tech), PG (M. Tech), P.hd
5. Interdisciplinary programmes and departments involved: Nil
6. Courses in collaboration with other universities, industries, foreign institutions, etc. :
Nil
7. Details of programmes discontinued : Nil
8. Examination System: Semester System
9. Participation of the department in the courses offered by other departments :
Some Computer Science related subjects in other departments like Civil Engineering, Mechanical Engineering, Aeronautical Engineering, and Mining etc. are conducted by Computer Science faculties.

Subject Taught	Department
C/C++	Computer Science & Engineering ,Civil Engineering, Electronics & Communication Engineering, Aeronautical Engineering, Mining Engineering.
Fundamental of Computers	Computer Science & Engineering ,Civil Engineering, Electronics & Communication Engineering, Aeronautical Engineering, Mining Engineering.

10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others)

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Professor	1	0	0	1	1
Associate Professor	2	0	0	2	2
Assistant Professor	5	0	15	03	18

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	Academics	No. of Ph.D./ M. Phil./M. Tech Students Guided for last 4 Years
Mr. Nilmani Verma	M. Tech	HOD	Image Processing, Machine Learning	5	8
Deepak Xaxa	M. Tech	Asst. Prof.	Mobile Communication	2	06
Sandeep Gonnade	M. Tech	Asst. Prof.	Neural Network	2	4
Sachi Choudhary	M. Tech	Asst. Prof.	Distributed System	3	1
Chandrakant Mahobiya	B. Tech.	Asst. Prof.	Data Mining	4	00

Mohit Shrivastav	M. Tech	Asst. Prof.	Networking	4	00
Manoj Ku.Gupta	B. Tech	Asst. Prof.	Ad-Hoc Network	3	00
Sushma Lalwani	M. Tech	Asst. Prof.	Networking	2	00
Rashmi Shrivastav	M. Tech	Asst. Prof.	Image Processing	1	00
Anubhuti Sharma	B. Tech	Asst. Prof.	Networking	1	00
Nivedita Pandey	M.Tech	Asst. Prof.	Computer Science	2.6	00
Shreechandra Upadhyay	B.E.	Asst. Prof.	Computer Science	4	00
Amrita Raj	B.E.	Asst. Prof.	Computer Science	2	00
Umesh Agrawal	B.E.	Lecturer	Computer Science	2	00
Richa Goyal	B.E.	Lecturer	Computer Science	2.5	00
Akash Jaish	B.E.	Lecturer	Computer Science	1	00
Shweta Yadu	BE	Lecturer	Computer Science	2.5	00
Pushpendra Sinha	MBA	Asst. Prof.	Computer Science	3	00
Irfan Rizvi	BE	Lecturer	Computer Science	2.5	00

Priyansh	B. Tech	Asst. Prof.	Computer Science	0.8	00
Anshula Jain	BE	Lecturer	Computer Science	0.2	00

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

NIL

13. Percentage of classes taken by temporary faculty – programme-wise information

NIL

14. Programme-wise Student Teacher Ratio: 15:1.

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Lab Assistant	1	0	1	0	01
Office Assistant Gr. III	1	0	1	0	01
Peon	1	0	1	0	01

16. Research thrust areas as recognized by major funding agencies : Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Nil

18. Inter-institutional collaborative projects and associated grants received : Nil

a) National collaboration Nil

b) International collaboration Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :Nil
20. Research facility / centre with :
- state recognition : 01
 - national recognition : 01
 - international recognition : No
21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil
22. Publications:
- Number of papers published in peer reviewed journals
 - National : 02
 - International : 35
 - Monographs :NIL
 - Chapters in Books : NIL
 - Edited Books : NIL
 - Books with ISBN with details of publishers :NIL
 - Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :NIL
 - Citation Index - range / average : List Attached :NIL
 - SNIP :NIL
 - SJR :NIL
 - Impact Factor - range / average :Between 0.5 to 1
 - h-index :NIL
23. Details of patents and income generated : Nil
24. Areas of consultancy and income generated : Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions
- / industries in India and abroad :NIL

33. Diversity of Students

Program Name	FROM STATE								FROM OTHER STATE								FROM OTHER COUNTRY							
	2010		2011		2012		2013		2010		2011		2012		2013		2010		2011		2012		2013	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech	08	04	10	02	09	03	18	9	4	3	2	0	0	0	1	0	0	0	0	0	0	0	0	0
B.Tech III rd Sem	6	0	09	10	08	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00	0	0	0
M.Tech.	0	0	11	04	10	08	11	07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

NIL

35. Student progression :Admission

Student progression	Percentage against enrolled
UG to PG	1.06%
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	45%
• Other than campus recruitment	50%
Entrepreneurs	NIL

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	9.5%
from other universities within the State	9.5%
from universities from other States	71%
from universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL

38. Present details of departmental infrastructural facilities with regard to

- a) Library - Part of central library of college
- b) Internet facilities for staff and students- Wi-Fi and LAN connections.
- c) Total number of class rooms - 06
- d) Class rooms with ICT facility - Smart class(01)
- e) Students' laboratories -

S. No.	Lab
1	Programming lab
2	Database Lab
3	WT lab
4	MATLAB
5	MULTISIM LAB
6	UNIX LAB

- f) Research laboratories - NIL

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university - NIL
- b) from other institutions/universities - NIL

40. Number of post graduate students getting financial assistance from the university. - NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Computer Science is playing a vital role in the development of society and it is difficult to find an area where the Computers do not have applications. There is always a requirement for the qualified Computer professionals to provide quality service to the society. With significant increase in the number of Engineering Institutions in the recent past; the availability of qualified faculty has gone down drastically. In order to bridge the gap, there is a need to start an M. Tech programme in Computer Science & Engineer.

The two-year post graduate programme in Computer Science and Engineering is intended to train the students in both advanced areas in the core courses and specialized topics in the emerging technology fronts. Courses offered include Data Structure and Algorithms, Cloud Computing, Foundations of Network Security, Grid Computing, Digital Image Processing. The project work in the final year is intended to equip the students to go deeper into her/his area of specialization.

42. Does the department obtain feedback from
- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
Yes. By receiving the feedback, proper guidelines are given by the Head of Department to improve the teaching skills of the concerned.
 - b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
Yes, Proper guide lines given by the concern Head of the department to teachers.
 - c. Alumni and employers on the programmes offered and how does the department utilize the feedback? Nil

43. List the distinguished alumni of the department (maximum 10)

S.No.	Year	Name of student
1	2008	Kamlesh Kumar, Nandini Singh
2	2009	PiyushaGunjan, Suresh Kumar
3	2010	ShantanuTripathi, Swapnil Modi

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

S.N.	Area/Topic	Dates	Funding Organization
1	Workshop on MATLAB Programming	25 th to 27 th February, 2013	MATS University Raipur
2	NPTEL Awareness Workshop by Classle	8 th March, 2013	MATS University Raipur
3	Seminar on Unix Operating System	24 th August, 2013	MATS University Raipur
4	Seminar on Android Development and Security	7 th September, 2013	MATS University Raipur
5	Workshop on Cloud Computing & Virtualization	24 th feb to 28 th feb 2014	MATS University Raipur

45. List the teaching methods adopted by the faculty for different programmes.

- i. Uses lecture notes: By providing notes to student they can study in exam times.
- ii. Refers NPTEL video lectures: It gives clear explanations with examples.
- iii. Projector is used by faculties to deliver ppt. Lectures: Focus through diagram

46. How does the department ensure that programme objectives are constantly met and

learning outcomes are monitored?

- i. Class Test
 - ii. Mid Sem
 - iii. Presentation
 - iv. Viva-Voce
 - v. End Sem Exam
 - vi. Quizes
47. Highlight the participation of students and faculty in extension activities.
- i. Presentation
 - ii. Workshop
 - iii. Seminar
48. Give details of “beyond syllabus scholarly activities” of the department.
1. Participation in Seminar
 2. Workshop
 3. Paper Presentation/Publication
 4. Projects
49. State whether the programme/ department is accredited/ graded by other agencies?
If yes, give details. : NIL
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- i. Department always motivate student to do research works.
 - ii. Workshop/Seminars were conducted by department to enhance knowledge of students.
 - iii. Organizes expert & guest lecturer by faculty of other colleges.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths	Weaknesses	Opportunities	Challenges
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Proper Follow up of Curriculum	Access to sufficient digital libraries	MOU's With Industries	To achieve 100% Result
Timely Syllabus Completion	Departmental Library	Research Work	To achieve 100% Placement
Coordination	Faculties Industrial Exposure	Visit To Research Organisations	To achieve National Ranking
Teamwork	Technological Up-gradation Of Syllabus	Private & public sectors	Take Research Work For Benefit of Society
Energetic And Enthusiastic Environment	Consultancy work to be improved.	IT Industries	To face Competition in cutting age of technology

52. Future plans of the department.

- i. Planning to form an student association
- ii. Planning to organize National Conference Or Workshop in recent technology.
- iii. Alumni meet.
- iv. Planning to be a part of CSI/IEEE/or any reputed journal Students Chapter .
- v. Planning to make Digital Library of books, class room lectures, technical magazines, journals .

Evaluative Report of the Department

1. Name of the Department : Civil Engineering
2. Year of establishment : 2010
3. Is the Department part of a School/Faculty of the university? : Yes
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D. Sc., D.Litt., etc.) : B. Tech, Diploma
5. Interdisciplinary programmes and departments involved : NIL
6. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL
7. Details of programmes discontinued, if any, with reasons : NIL
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System : Semester System
9. Participation of the department in the courses offered by other departments :

Subject Taught	Department
Basic Civil Engineering	Computer Science & Engineering ,Civil Engineering, Electronics & Communication Engineering, Aeronautical Engineering, Mining Engineering.

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Professor	1	0	0	1	1
Associate Professor	1	0	0	1	1

Assistant Professor	5	0	13	03	16
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11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. Of Years of Experience	M.Phil. Students guided for the last 4 years
<u>Hanish Verma</u>	M.TECH., BE	Asst. Proff.	Soil & Water Conservation Engg.	4 Years	NIL
R.Purushwani	P.hd. M.Tech.	Prof.	Structure Engineering	40 Yrs	Nil
<u>K. Anand Babu</u>	BE	Lecturer	Civil	3 Years	NIL
Shree Ram Malani	BE	Lecturer	Civil	1 Year	NIL
Shubhangi Pandey	BE	Lecturer	Civil	10 months	NIL
Neelima Verma	BE	Lecturer	Civil	4 months	NIL
N K Srivastav	BE	Lecturer	Civil	37 years in field & 2.5 years in teaching	NIL
Shivshankar Prasad Pandey	B. Sc	Lecturer	Material Science	5 years	NIL
Nandita Khanra	M. Sc	Lecturer	Physics	2 Years	NIL
Sanjay Ku. Trivedi	M. Sc	Lecturer	Physics	5 Years	NIL
Sundar Prasad Mehta	M. Sc	Lecturer	Maths	19 Years	NIL

Mayank Rathode	BE	Lecturer	Civil	2 Years	NIL
Nohar Sinha	M. Sc	Lecturer	Maths	5 Years	NIL
Preeti Sharma	M. Sc	Lecturer	Chemistry	5 Years	NIL
Amita Gupta	M. Sc	Lecturer	Organic Chemistry	2 Years	Nil
Geetanjali Chandrakar	BE	Lecturer	Civil	0	Nil
Abhishek Sing	BE	Lecturer	Civil	0	Nil
Ruchi Chandrakar	BE	Lecturer	Civil	0	Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL
13. Percentage of classes taken by temporary faculty - programme-wise information:-
NIL
14. Programme-wise Student Teacher Ratio : 15:1
15. Number of academic support staff (technical) and administrative staff: sanctioned:

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Lab Assistant	1	0	1	0	01
Office Assistant Gr. III	1	0	1	0	01
Peon	1	0	1	0	01

16. Research thrust areas as recognized by major funding agencies : NIL
17. Number of faculty with ongoing projects from
 - a) national b) international funding agencies and
 - c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :
 NIL

18. Inter-institutional collaborative projects and associated grants received : NIL
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : NIL
20. Research facility / centre with :
 - state recognition : 01
 - national recognition : 01
 - international recognition :No
21. Special research laboratories sponsored by / created by industry or corporate bodies : NIL
22. Publications: NIL
 - Number of papers published in peer reviewed journals (national / international)
 - Monographs : NIL
 - Chapters in Books : NIL
 - Edit Books : NIL
 - Books with ISBN with details of publishers : NIL
 - Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : NIL
 - Citation Index - range / average : NIL
 - SNIP : NIL
 - SJR : NIL
 - Impact Factor - range / average : NIL
 - h-index : NIL
23. Details of patents and income generated : NIL
24. Areas of consultancy and income generated : NIL
25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad : NIL
26. Faculty serving in

b) National committees b) International committees c) Editorial Boards d) any other (please specify) : NIL

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): NIL

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : 100%
- percentage of students doing projects in collaboration with other universities / industry / institute : NIL

29. Awards / recognitions received at the national and international level by

- Faculty : NIL
- Doctoral / post doctoral fellows : NIL
- Students :
 - 5th Rank in Civil Modelling event of CEA Fest 2014,
 - IIT Madras 20th Rank in Concrete Challenge event of CEA Fest 2014, IIT-M

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. :Yes (AutoCAD workshop & A.C.E) : NIL

31. Code of ethics for research followed by the departments

Code of ethics for research of university is enclosed in Annexure D-3.1 (Criterion:III).

32. Student profile programme-wise:

SN	Name of the Programme	Applications received	Students taken Admission	Demand Ratio	Gender wise								Pass	
					2010		2011		2012		2013			
					M	F	M	F	M	F	M	F	M	F
1.	B.Tech	438	231	87	39	0	53	07	61	05	56	10	46	8
2.	Diploma	76	60	79	00	00	00	00	00	00	58	02	00	00
3.	P.hd.	03	01	33	00	00	00	00	01	00	00	00	00	00

33. Diversity of Students

Program Name	FROM STATE								FROM OTHER STATE								FROM OTHER COUNTRY							
	2010		2011		2012		2013		2010		2011		2012		2013		2010		2011		2012		2013	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech.	36	0	43	07	50	03	46	20	03	00	10	0	0	0	4	0	0	0	0	0	0	0	0	0
B.Tech. III sem	0	0	6	00	11	2	06	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Diploma	0	0	0	0	0	0	55	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : NIL

35. Student progression :

Student progression	Percentage against enrolled
UG to PG	00
PG to M.Phil.	00
PG to Ph.D.	00
Ph.D. to Post-Doctoral	00
Employed	
• Campus selection	00
• Other than campus recruitment	00
Entrepreneurs	00

36. Diversity of staff

Percentage of Faculties who are graduate	
Of the same university	Nil
From other Universities within the state	C.S.V.T.U (66.67 %)
From universities of other States	Allahabad & M.P (33.33%)
From universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the

assessment period :NIL

38. Present details of departmental infrastructural facilities with regard to
- a) Library : Yes (Central Library)
 - b) Internet facilities for staff and students : Yes (Wi-Fi, LAN)
 - c) Total number of class rooms : 06
 - g) Class rooms with ICT facility : Yes (Smart Class with internet & projector)
 - h) Students' laboratories :Yes (Surveying Lab, Transportation Lab, Geo-tech Lab, Geology Lab, Concrete Lab)
 - i) Research laboratories : NIL
39. List of doctoral, post-doctoral students and Research Associates : NIL
- a) from the host institution/university
 - b) from other institutions/universities
40. Number of post graduate students getting financial assistance from the university.
:NIL
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :
- YES (Diploma was started due to continuous student enquiry from our and other institute students.)
42. Does the department obtain feedback from
- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :
- Yes, Staff Council meeting is conducted on a monthly basis in the department. Meeting regarding the teaching-learning pattern was discussed among all teachers and on basis of feedback, the syllabus is updated. Feedback is also utilized for changes in practical performing in field.
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :

Student feedback on staff is taken at the end of each semester. The feedback questionnaire is scientifically designed. Based on the responses of the students the Faculty Competence Index (FCI) is calculated. The result of the survey is discussed with the concerned faculty member by the HoD with regards to the pace of delivery of course, the use of teaching aids, punctuality, role playing, questions posed to students, clarifying student doubts, demonstrating case studies etc. The faculty with FCI<75% will be counseled by the HoD and Director and measures will be initiated to improve the performance.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? No
43. List the distinguished alumni of the department (maximum 10) :- Nil (1st batch yet to pass-out)
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. : AutoCAD Workshop, A.C.E
45. List the teaching methods adopted by the faculty for different programmes. : black board, smart class, field practical related to civil engineering:- Presentations, Class tests, & Research works
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

In the department meeting, negative points are considered and regular meetings are conducted and planned to improve the department continuously. The curriculum objectives are obtained by the following means:-

1. Class Tests
2. Mid Sem
3. Viva
4. End sem Exam
5. Presentations
6. Assignments
7. Feedback from externals
8. Through regular placements

47. Highlight the participation of students and faculty in extension activities. :
- The Association of Civil Engineering (A.C.E) provides platform for research works that are conducted by the students. The research papers are submitted certified and affiliated from various international organisation.
- Under the ACE students participated in CEA Fest 2014 organised by IIT Madras and stood 5th rank nationally
48. Give details of “beyond syllabus scholarly activities” of the department. Establishment of A.C.E under which students participate in research activities, CAD/CAM workshop.
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: NIL
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- We put new innovative ideas in major and minor projects by the students of 7th and 8th semester who are continuously Guided by the faculties. Faculty also refer National and International Journals for guiding students to upgrade their awareness regarding the projects with respect to Civil Engineering.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths	Weaknesses	Opportunities	Challenges
Completion of Syllabus on time.	Less paper publications.	MOU's With Industries	To achieve 100% Result
Conduction of practical oriented classes.	Departmental Library	Students interact with government Sector Employees and work during their Vocational	To achieve 100% Placement

		Training.	
Dedication to the work by the faculties.	Faculty Industrial Exposure	To prepare and develop students for Research works.	To achieve National Ranking
Keen observation of students by helping them in all activities.	Technological Up-gradation Of Syllabus	Private & public sectors	To Raise knowledge level of students by guiding them properly.
Motivating the students for extra curriculum activities.	No research projects with either national or international fund.	Construction Industries	To face Competition in cutting age of technology

52. Future plans of the department.

- Planning to form a Student Association
- National Conference Or Workshop
- Alumni meet
- IEEE Students Chapter
- Digital Library

Evaluative Report of the Department

1. Name of the Department : ELECTRONICS & COMMUNICATION ENGINEERING
2. Year of establishment: 2009.
3. Is the Department part of a School/Faculty of the university : YES
4. Names of programmes offered: B.Tech.,P.hd.
5. Interdisciplinary programmes and departments involved: NIL
6. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL
7. Details of programmes discontinued : NIL
8. Examination System: Semester System
9. Participation of the department in the courses offered by other departments: YES

Department Name	Subjects Taught
CSE	Electronics circuit and Network Theory, Microprocessor, Principle of Communication System, Digital Logic Design.
Aeronautical	Control System, Microprocessor
Mining	Basic Electronics, Instrumentation
DIP Electrical	Basic Electronics, Digital Electronics
DIP Mechanical	Basic Electronics

10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others)

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	

Professor	1	0	0	1	1
Associate Professor	1	0	0	1	1
Assistant Professor	4	0	14	04	18

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	Academics	No. of Ph.D./ M.Phil. Students Guided for last 4 Years
Mahendra Kumar Pradhan	B.E.	HOD	Digital Electronics & Communication	6 years	00
K.K. Chandrakar	M. E.	Asst.Prof.	Telecommunication	3 years	00
Gajendra Singh Rathore	M.Tech	Asst. Prof.	Opto-Electronics & Laser Technology	2 years	00
Aabha Sahu	B.E.	Asst. Prof.	Digital Electronics & Instrumentation	4 years	00
Rajeev Shukla	B.E.	Lect.	Communication Engineering	2 years	00
Geoffrey Eappen	M. Tech	Asst. Prof.	Digital technique	1 year	00
	M. Tech	Asst. Prof.	VLSI Design	1 year	00

AlokSahu					
SantoshGajbhiye	B.E.	Asst. Prof.	Communication Engineering	3 years	00
Saumya Agarwal	B.E.	Asst. Prof.	VLSI Design	0 years	00
HETAL Patel	B.E	Lect.	Electronics and Communication engg.	1 years	00
Nidhi Mishra	B.E.	Lect.	Digital Electronics	02	00
Kriti Masih	M.Tech	Asst. Prof.	Electronics and Communication engg.	03	00
Saurabh Sahu	B.E.	Lect.	Power Electronics	03	00
Manijit Singh Sonwani	M.Tech.	Asst.Prof.	Electronics and Communication engg.	2.5	00
Mukesh Mishra	M.Tech.	Asst.Prof.	Electronics and Communication engg.	3	00
Sachindra Soni	BE.	Lect.	Electronics and Communication engg.	1.5	00
Sudhanshu Jaiswal	BE.	Lect.	Electronics and Communication engg.	3.5	00
Pranita Tamboli	BE.	Lect.	Electronics and Communication	2.5	00

			engg.		
Nilam Shriwastava	BE.	Lect.	Electronics and Communication engg.	2	00
Anita Verma	Msc.	Asst. Prof	Physics	03	00

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :NIL
13. Percentage of classes taken by temporary faculty -programme-wise information-NIL
14. Programme-wise Student Teacher Ratio :15:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Lab Assistant	1	0	1	0	01
Office Assistant Gr. III	1	0	1	0	01
Peon	1	0	1	0	01

16. Research thrust areas as recognized by major funding agencies : NIL
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : NIL
18. Inter-institutional collaborative projects and associated grants received :
 - a) National collaboration -NIL
 - b) International collaboration -NIL
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :NIL

20. Research facility / centre with :

- state recognition -01
- national recognition -01
- international recognition - NIL

21. Special research laboratories sponsored by / created by industry or corporate bodies :NIL

22. Publications:

- Number of papers published in peer reviewed journals (national / international)

National/international conference	National/international journals
05	07

- Monographs : NIL
- Chapters in Books : NIL
- Edited Books : NIL
- Books with ISBN with details of publishers : NIL
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : NIL
- Citation Index - range / average: List Attached :NIL
- SNIP : NIL
- SJR : NIL
- Impact Factor - range / average: List Attached : Between 0.5 to 01
- h-index : NIL

23. Details of patents and income generated : NIL
24. Areas of consultancy and income generated : NIL
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : NIL
26. Faculty serving in
 c) National committees b) International committees c) Editorial Boards d) any other (please specify) : NIL
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). : NIL
28. Student projects
 a. percentage of students who have done in-house projects including inter-departmental projects: 60%
 b. percentage of students doing projects in collaboration with other universities
 1. industry / institute : 40%
29. Awards / recognitions received at the national and international level by
 a. Faculty : NIL
 b. Doctoral / post doctoral fellows : NIL
 c. Students : NIL
30. Seminars/ Conferences/Workshops organized and the source of funding (national i. international) with details of outstanding participants, if any : NIL
31. Code of ethics for research followed by the departments
 Code of ethics for research of university is enclosed in Annexure D-3.1 (Criterion:III).
32. Student profile programme-wise:

SN	Name of the Programme	Applications received	Students taken Admission	Demand Ratio	Gender wise								Pass	
					2010		2011		2012		2013			
					M	F	M	F	M	F	M	F	M	F
1.	B.Tech	153	96	120	25	07	27	8	11	2	14	2	62	8

2.	P.hd.	08	01	12	00	00	01	00	00	00	00	00	00	00	00
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33. Diversity of Students

Program Name	FROM STATE								FROM OTHER STATE								FROM OTHER COUNTRY							
	2010		2011		2012		2013		2010		2011		2012		2013		2010		2011		2012		2013	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech.	16	05	15	05	08	2	9	2	9	2	4	2	1	0	3	0	0	0	0	0	0	0	00	0
B.Tech. III SEM	00	0	8	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

:NIL

35. Student progression

Student progression	Percentage against enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	25
• Other than campus recruitment	09
Entrepreneurs	NIL

36. Diversity of staff

Percentage of faculty Qualified	
From the same university	0%
From other universities within the State	58%
From universities from other States	42%
From universities outside the country	0%

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :NIL

38. Present details of departmental infrastructural facilities with regard to

- d) Centralized Library -01
- e) Internet facilities for staff and students -Wi-Fi, LAN
- f) Total number of class rooms - 04
- j) Class rooms with ICT facility - Smart Class(01)
- k) Students' laboratories - 04
- l) Research laboratories - NIL

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university -NIL
- b) from other institutions/universities - NIL

40. Number of post graduate students getting financial assistance from the university.-
NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes

Methodology: Because of the regular queries and interest shown for PG programs of ECE and related fields from scholars of the university and other universities the department takes the initiative to start M.Tech program.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

YES- Necessary Improvement is Made (From student feedback form)

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

YES- Necessary Improvement is Made (From student feedback form)

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? NO (Male Analysis for four year of feedback)

43. List the distinguished alumni of the department (maximum 10)

S.no	Name	Batch
1	AbhinavAnand	2009-13
2	Abhishekpandey	2009-13
3	Amankumarsaha	2009-13
4	Deepak kumar Das	2009-13
5	Subhajit Banerjee	2009-13
6	Sudhesh Kumar	2009-13

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

S. No.	Area/Topic	Date
1	Expert Lecture by Mr. Prakash Ratray, Manager, Networks, Vodafone (C.G.)	22 nd September, 2012
3	Expert Lecture by R.K.Geharwal, Deputy Director General, DOT, C.G.	7 th March, 2012
4	Workshop on MATLAB Programming during Aaghaaz '13	February , 2013
5	In House training on Embedded System Design by Tech innovates, Chennai	11 th - 26 th June, 2012

6	Workshop by ENTEC Power automation training institute in PLC & Scada	Sep-2011
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45. List the teaching methods adopted by the faculty for different programmes.
Green Board, Projector Aid, Smart Class, Industrial Visit Presentations, Class Tests, & Research Works.
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
1. Class test
 2. Mid semester
 3. Presentation
 4. Viva-voce
 5. End semester exam
 6. Assignment
 7. Feedback from external
 8. Through relevant placement
47. Highlight the participation of students and faculty in extension activities.
1. Presentation
 2. Workshop
 3. Seminar
 4. Plantation
 5. Blood Donation Camp
48. Give details of “beyond syllabus scholarly activities” of the department.
1. Participation in Seminar
 2. Workshop
 3. Paper Presentation/Publication
 4. Projects
 5. Industrial Visit
 6. Educational Tour
49. State whether the programme/ department is accredited/ graded by other agencies?

If yes, give details. : NIL

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

1. Workshop in Near by schools
2. Special Lecture in Other College
3. Guest Lecture

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths	Weaknesses	Opportunities	Challenges
Proper Follow-up Of Curriculum	Minimum participation in national level competition	MOU's With Industries	100% Result
Timely Syllabus Completion	Research Work is to be improved	Research Work	100% Placement
Coordination	Faculties Industrial Exposure	Visit To Research Organisations	International Ranking
Teamwork	Less number of research paper.	Technological Up-gradation Of Syllabus	Research Work For Benefit Of Society
Energetic And Enthusiastic Environment	Lack of MOUs with other universities	Visiting other universities for collaborations	Need to learn new field skills to students.

52. Future plans of the department.

- To incept Post Graduate Course (M. Tech.) in Power Electronics in next academic session.
- To enlighten students with various expert lectures, educational tours, industrial visits, National Conferences & workshops.
- Planning to form a Student Association
- Alumni Meet

- IEEE Students Chapter
- Digital Library

Evaluative Report of the Department

1. Name of the Department : AERONAUTICAL ENGINEERING
2. Year of establishment: 2011.
3. Is the Department part of a School/Faculty of the university : YES
4. Names of programmes offered : B. Tech (Aeronautical Engineering)
5. Interdisciplinary programmes and departments involved: NIL
6. Courses in collaboration with other universities, industries, foreign institutions, etc. :
NIL
7. Details of programmes discontinued NIL
8. Examination System: Semester System
9. Participation of the department in the courses offered by other departments :

Subject Taught	Department
Finite element Methods	Turbo Machinery
Gas Turbine jet propulsion	Turbo Machinery

10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others)

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Professor	1	0	0	1	1
Associate Professor	1	0	0	1	1
Assistant Professor	4	0	07	03	10

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.

Name	Qualification	Designation	Specialization	Academics	No. of Ph.D./m.Phil. students guided for last four years
Mr. Brijesh Patel	M. Tech	HOD	Avionics/ Structures	07 Years	-
Mr. Kalpit P. Kaurase	M.Tech	Asst. Prof.	Propulsion /Aerodynamic s	06 Years	-
Mr. Rahul Singh	M.Tech	Asst. Prof.	Materials Science & Engineering	.7	-
Mr. Prashant Singh	M. Tech Pursuing	Lecturer	Turbo Machinery	09 Months	-
Mr. Vivek Kumar Yadav	Msc	Asst. Prof.	Physics	2.2 Year	-
Mr. Ranjeet Singh Rooprah	M sc	Asst. Prof.	Chemistry	1 Year	-
Mr. Ambuj	M sc	Asst. Prof.	Physics	3 Year	-

Pandey					
Mr. Gopal Singh Sisodiya	B.E	Asst. Prof.	Aeronautical Engineering	2 Year	-
Mr. R. Satya Kumar	B.E	Lecturer	Aeronautical Engineering	1.8 Year	-
Mr. Nem Singh Nagwan	M.Tech	Asst. Prof.	Aerospace	2 Year	-
Nem Nagwanshi	M.Tech.	Asst. Prof.	Aeronautical Engineering	2.8	-
Miss.Akanksha Survyavanshi	M.Tech	Asst. Prof.	Production Engineering	1 Year	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL
13. Percentage of classes taken by temporary faculty – programme-wise information: NIL
14. Programme-wise Student Teacher Ratio : 15:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Lab Assistant	1	0	1	0	01
Office Assistant Gr. III	1	0	1	0	01
Peon	1	0	1	0	01

16. Research thrust areas as recognized by major funding agencies :
NIL
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project

title and grants received project-wise. : NIL

18. Inter-institutional collaborative projects and associated grants received : NIL

a) National collaboration b) International collaboration

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :NIL

20. Research facility / centre with :

- state recognition : 01
- national recognition: 01
- international recognition: No

21. Special research laboratories sponsored by / created by industry or corporate bodies : NIL

22. Publications:

- Number of papers published in peer reviewed journals (national / international)

International journals
07

- Monographs : NIL
- Chapters in Books : NIL
- Edited Books : NIL
- Books with ISBN with details of publishers : NIL
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average : NIL
- SNIP : NIL
- SJR : NIL
- Impact Factor - range / average : NIL

			Admission		M	F	M	F	M	F	M	F	M	F
1.	B.Tech	147	107	133	0	0	38	05	22	09	26	07	0	0

33. Diversity of Students

Program Name	FROM STATE								FROM OTHER STATE								FROM OTHER COUNTRY							
	2010		2011		2012		2013		2010		2011		2012		2013		2010		2011		2012		2013	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech.	0	0	32	4	15	9	14	7	0	0	6	1	2	0	1	0	0	0	0	0	0	0	0	0
B.TECH III SEM	0	0	0	0	4	0	2	0	0	0	0	0	1	0	9	0	0	0	0	0	0	0	0	0

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :
NIL

35. Student progression

Student progression	Percentage against enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
<ul style="list-style-type: none"> Campus selection 	NIL
<ul style="list-style-type: none"> Other than campus recruitment 	NIL
Entrepreneurs	NIL

36. Diversity of staff

Percentage of Faculties who are graduate	
Of the same university	Nil
From other Universities within the state	40%

From universities of other States	60%
From universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL

38. Present details of departmental infrastructural facilities with regard to

- a) Library - Central Library
- b) Internet facilities for staff and students - Wi-Fi and LAN Connections
- c) Total number of class rooms - 4
- d) Class rooms with ICT facility - Smart Class.-01
- e) Students' laboratories - 07

S. No.	Laboratory Name
1.	Thermodynamics Lab
2.	Fluid Mechanics Lab
3.	Mechanics of Solid Lab
4.	Propulsion-I lab
5.	Aero Hanger
6.	Aero Engine Lab
7.	Avionics Lab

- f) Research laboratories - NIL

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university - NIL
- b) from other institutions/universities - NIL

40. Number of post graduate students getting financial assistance from the university. - NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. NIL

42. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

YES, in the up gradation of Curricula and Syllabi of the courses run in department.

- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

YES, department utilize such feedback for better development of the academic activity of the department.

- alumni and employers on the programmes offered and how does the department utilize the feedback?

NIL

43. List the distinguished alumni of the department (maximum 10) : NIL

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

S. No.	Area/Topic	Date
1	Workshop on Design and Fabrication of Aero Model Programming during Aaghaaz '14	21.02.2014 to 22.02.2014

45. List the teaching methods adopted by the faculty for different programmes.

Lecture by teacher ,Power point presentation, Lecture through smart class, Practical demonstration through video lecture

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

1.Class Test

2.Mid Sem

3.Presentation

4.Viva-Voce

5.End Sem Exam

6. Regular interaction with students and teachers to assess the outcome.

47. Highlight the participation of students and faculty in extension activities. Nil

48. Give details of “beyond syllabus scholarly activities” of the department.
Industrial visit to Aero India-2013 and Hindustan Aeronautical India Ltd. (Bangalore)
49. State whether the programme/ department is accredited/ graded by other agencies?
If yes, give details. : NIL
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. Nil
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths	Weaknesses	Opportunities	Challenges
Proper Follow up Of Curriculum	Laboratories	Research Work	International Ranking
Timely Syllabus Completion	Faculty industrial exposure	Technological Up gradation Of Syllabus	Research Work For Benefit Of Society
Coordination	No research projects with either national level.	Demand for Knowledge in design and analysis	upgrading with latest development.
Teamwork	Less number of published research papers.	To acquire innovative attitude.	Sustaining growth.
Energetic And Enthusiastic Environment	sponsored projects are to be taken	Congenial environment of acquiring knowledge.	To attract bright Students as State University

52. Future plans of the department.
- To enlighten students with various expert lectures, educational tours, industrial visits, National Conferences & workshops.

- Planning to form a Student Association.

Evaluative Report of the Department

1. Name of the Department : MINING ENGINEERING
2. Year of establishment : 2012
3. Is the Department part of a School/Faculty of the university? : YES
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) : UG (B. Tech.)
5. Interdisciplinary programmes and departments involved : NIL
6. Courses in collaboration with other universities, industries, foreign institutions ,etc. : NIL
7. Details of programmes discontinued, if any, with reasons : NIL
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System : SEMESTER BASED
9. Participation of the department in the courses offered by other departments : YES
10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others)

Designation	Sanctioned	Filled			Actual
		Permanent	Adhoc	Part-time	
Professor	0	0	0	0	Nil
Associate Professor	1	0	0	1	1
Assistant Professor	3	0	04	4	08

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. Of Years of Experience	M.Phil. students guided for the last 4 years
Bhargava K. Iyengar	M .Tech	Astt. Professor	Geology	18Yrs	00
Nishant Pagare	B.E.	Astt. Profesor	Mining Engineering	5 Yrs.	00
Neelesh Netam	BE	Astt. Profesor	Mining Engineering	0 Yrs.	00
Nitin Sharma	M. Sc.	Astt. Profesor	Mathematics	1 Yrs	00
Pradeep Dewangan	M. Sc.	Astt. Profesor	Physics	1 Yrs	00
Abdul Jubaid Khan	Ph.D	Astt. Profesor	Mathematics	15 Yrs	00
Mallika Diwan	B.E	Astt. Profesor	Electrical	1 Yrs	00
Papiya Mandal	M.Phil	Astt. Profesor	Communcation skills	1 Yrs	00
Shailesh Deshmukh	M. Tech	Astt. Profesor	Electrical	5 Yrs	00

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL
13. Percentage of classes taken by temporary faculty :NIL
14. Programme-wise Student Teacher Ratio : 1:15
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : NIL
16. Research thrust areas as recognized by major funding agencies : NIL

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : NIL
18. Inter-institutional collaborative projects and associated grants received
- a) National collaboration : NIL
- b) International collaboration : NIL
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : NIL
20. Research facility / centre with
- state recognition : 01
 - national recognition : 01
 - international recognition :NIL
21. Special research laboratories sponsored by / created by industry or corporate bodies : NIL

22. Publications:

- Number of papers published in peer reviewed journals (national / international) :

international journals
02

- Monographs :NIL
- Chapters in Books :NIL
- Edited Books :NIL
- Books with ISBN with details of publishers :NIL
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : NIL
- Citation Index - range / average :NIL
- SNIP :NIL
- SJR :NIL

- Impact Factor - range / average :NIL
 - h-index :NIL
23. Details of patents and income generated : NIL
24. Areas of consultancy and income generated : NIL
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : NIL
26. Faculty serving in
- h) National committees :NIL
 - i) International committees :NIL
 - j) Editorial Boards :NIL
 - k) any other (please specify) : NIL
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). : NIL
28. Student projects
- percentage of students who have done in-house projects including inter-departmental projects : NIL
 - percentage of students doing projects in collaboration with other universities / industry / institute : NIL
29. Awards / recognitions received at the national and international level by
- Faculty: Bhargava K. Iyengar, International Accreditation Organisation (IAO) USA
 - Doctoral / post doctoral fellows :NIL
 - Students :NIL
30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. :NIL
31. Code of ethics for research followed by the departments
Code of ethics for research of university is enclosed in Annexure D-3.1 (Criterion:III).
32. Student profile programme-wise:

SN	Name of the Programme	Applications Received	Students taken Admission	Demand Ratio	Gender wise								Pass percentage	
					2010		2011		2012		2013		M	F
					M	F	M	F	M	F	M	F		
1.	B.Tech	94	76	142	0	0	0	0	34	0	42	0	0	0

33. Diversity of the students

Program Name	FROM STATE								FROM OTHER STATE								FROM OTHER COUNTRY							
	2010		2011		2012		2013		2010		2011		2012		2013		2010		2011		2012		2013	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech.	0	0	0	0	30	0	24	0	0	0	0	0	4	0	15	0	0	0	0	0	0	0	0	0
B.TECH III SEM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. - NIL

35. Student Progression

Student progression	Percentage against enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	NIL
• Other than campus recruitment	NIL
Entrepreneurs	NIL

36. Diversity of staff

Percentage of Faculties who are graduate
--

Of the same university	Nil
From other Universities within the state	20%
From universities of other States	80%
From universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL

38. Present details of departmental infrastructural facilities with regard to

- a) Library : Central Library
- b) Internet facilities for staff and students
- c) Total number of class rooms : 03
- d) Class rooms with ICT facility : Smart Class Room(01)
- e) Students' laboratories : Yes
- f) Research laboratories - NIL

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university :NIL
- b) from other institutions/universities : NIL

40. Number of post graduate students getting financial assistance from the university. : NIL

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. - NIL

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? : Feedback on University Level
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
on the basis feedback call the faculty and discuss the issue and give proper instructions.
- c. Alumni and employers on the programmes offered and how does the

department utilize the feedback? :NIL

43. List the distinguished alumni of the department (maximum 10) : NIL
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Special Lectures Organised by Department :NIL
45. List the teaching methods adopted by the faculty for different programmes.
 - Class Room Teaching (Black board chalk)
 - Teaching through Power Point Presentation
 - Teaching through digital class (Smart Class)
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
 Department ensure the program objective through session plan and academic calendar .
47. Highlight the participation of students and faculty in extension activities.
 Power point presentation by the faculty using smart class and motivate the students to participate .
48. Give details of “beyond syllabus scholarly activities” of the department.
49. State whether the programme/ department is accredited/ graded by other agencies?
 If yes, give details :NIL
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. :NIL
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

SN	STRENGTH	WEAKNESS	OPPORTUNITY	CHALLENGES
1	Dedicated Faculty	Less paper publications	Few colleges have Mining branch	To make a brand Image in the mining Education
2	Good Atmosphere To	Lack of research work	To tie up with Companies for	To Establish Research Lab

	Knowledge		technical Knowledge	
3	Teaching using Smart/digital Classes	Faculties industrial exposure	Chhattisgarh well known as Mineral hub	To Establish Mineral Museum
4	Regular Evaluation Programs	Self appraisal	Immense Scope for Job	To Establish the Balance Between Environment & Mining Education
5	Mentoring	R& D works need to be increased	Practical Knowledge in the Underground & Opencast mine.	Mining Software skill enhancement

52. Future plans of the department.

Mining Engineering department is willing to establish a mineral museum in coming years. Procurement of mining software to enable the students with new mining techniques and plan train the student with hands on experience in the field of mining to start a safety week so that students understand the importance of safety in the mines start a short term course on GIS and others related subject.

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the Institution

with seal:



Place: Raipur
Date: 19.08.2014