SELF STUDY REPORT

Volume-IV

(Evaluative Reports of the Departments)

Off - Campus - Bengaluru

Submitted to

National Assessment and Accreditation Council (NAAC)

Bengaluru - 560 072

for

ACCREDITATION - CYCLE-2

by

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)

(Deemed to be University u/s 3 of the UGC Act, 1956)

Gandhi Nagar, Rushikonda, Visakhapatnam - 530 045.

A University Committed to Excellence

If we want to impart education
best suited to the needs of the villagers,
we should take the vidyapith (University)
to the villagers.

- M.K. Gandhi

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Evaluative Reports of the Departments

Off Campus- Bengaluru

SCHOOL OF TECHNOLOGY

Department of English

1. Name of the Department : **English**

2. Year of Establishment : **2012**

3. Is the Department part of a School/Faculty of the University?
   Yes, School of Technology, Off campus – Bengaluru

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)
   Service Department offering courses to B.Tech.programme

5. Interdisciplinary programmes and departments involved: Nil.

6. Courses in collaboration with other universities, industries, foreign institutions, etc.:
   The Department is offering Business English Certificate (BEC) to UG students in collaboration with Cambridge English Language Assessment, Cambridge.

7. Details of programmes discontinued, if any, with reasons: Nil.

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System
   Semester and Choice Based Credit System

9. Participation of the department in the courses offered by other departments

S. No.	Course code	Course title	Offered to
1.	EUREC 413	Advanced Communication Skills & Language Laboratory	ECE, CSE, EEE, MECH.
2.	EUREC 513	Personality Development	ECE, CSE, EEE, MECH.

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

	Sanctioned	**Filled**	**Actual (including CAS & MPS)**
Professor	Nil	Nil	-
Associate Professor	1	1	1
Assistant Professor	4	4	4

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

S. No.	**Name of Faculty**	**Designation**	**Qualification**	**Specialization**	**Years of Exp.**	**Ph.D./M. Phil. guided**
1.	Dr. Manju Jose	Associate Professor	Ph.D.	American Literature	15	--
2.	Smt I. Madhavi	Assistant Professor	Ph.D.	English Language & Teaching	18	--
3.	Dr.V. Durga Prasad	Assistant Professor	Ph.D.	English Language & Teaching	9	---
4.	Dr.P. Sreeramulu	Assistant Professor	Ph.D.	Indian Writing in English	8	--
5.	Dr.Sridhar Maisa	Assistant Professor	Ph.D.	English Language & Teaching	10	--

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

S.No	**Name of Faculty**	**Designation**	**Qualification**
1.	Ms Jasmine	Adjunct Faculty	French Grade Alliance Francais Chennai

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

14. Programme-wise Student Teacher Ratio: 12.5 : 1

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

	Sanctioned	Filled	Actual
Support staff (technical)	1	1	1
Administrative staff	0	0	0

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

    - UGC – English Language Training

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. Ongoing Sponsored Projects :

- Completed Projects:

S.No.	Name of the Faculty	Project Title	Funding Agency	Grants in Lakhs
1	Ms I. Madhavi	Use of Technology for Acquisition of Communication skills	UGC	1.3

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 :Nil.
    national recognition :Nil.
    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 :12 , International:02
    - Monographs - Nil.
    - Chapters in Books - 2
    - Edited Books - Nil.
    - Books with ISBN with details of publishers- 2
    - Number listed in International Databases (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 (Source Normalized Impact per Paper):Nil.
- SJR (*SCImago Journal Rank):*Nil
- Impact Factor – range / average :Nil.
- H-index:Nil.

23. Details of patents and income generated :Nil.

24. Faculty selected nationally / internationally to visit other laboratories / institutions /Industries in India and abroad: Nil.

25. Areas of consultancy and income generated :

- Income generated by Business English Certificate (BEC) from 2013-16 is Rs .50,000

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) - Nil.

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

Faculty members attend international and national conferences / symposia / seminars / refresher courses / workshop / industrial visits / short term courses / periodically.

S. No	Recharging programme	Number of faculty
1.	Refresher/ orientation programmes	20
2.	Training Programmes	10
3.	Workshops	18
4.	Management Development Programme	8
5.	Others	9

28. Student projects: NA

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

- Faculty Awards / Recognition : Nil.
- 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 :

The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students : NA

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

35. Student progression :NA

36. Diversity of staff:

Percentage of faculty who are :	
Graduates of the same university	Nil.
From other universities within the state	Nil.
From universities from other states	100
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 : Ph.D. Awardees: 01

38. Present details of Departmental Infrastructural Facilities with regard to :
    a. Library : Total no books : 343 Titles : 36
    b. Internet facilities for staff and students :
       All the staff and students are provided with internet Facility
    c. Total number of class rooms -10
    d. Class rooms with ICT facility -10
    e. Students' laboratories - 01
    f. Research laboratories - Nil

39. List of doctoral, post-doctoral students and Research Associates - NA
    a. from the host institution/university:
    b. from other institutions/universities:

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

41. Was any need assessment exercise undertaken before the development of new

programme(s)? If so, highlight the methodology.

The following procedure is adopted before introducing any new programme:

The departments conducts the need analysis for the proposed new programme before introducing. The need analysis comprises demand for the programme, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The departments also organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed programme.

After considering the recommendations, the Board of Studies discusses the proposed programme in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval

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?
   - The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and its recommendations are placed before the Board of Studies for consideration.

   - The feedback on teaching-learning methodologies and assessment procedures is obtained from the faculty and discussed in the departmental committee and forwarded to the dean through the head of the department for necessary action.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
   - The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.

- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean addresses the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
   - The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the programme keeping in view of the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
   - One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

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

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

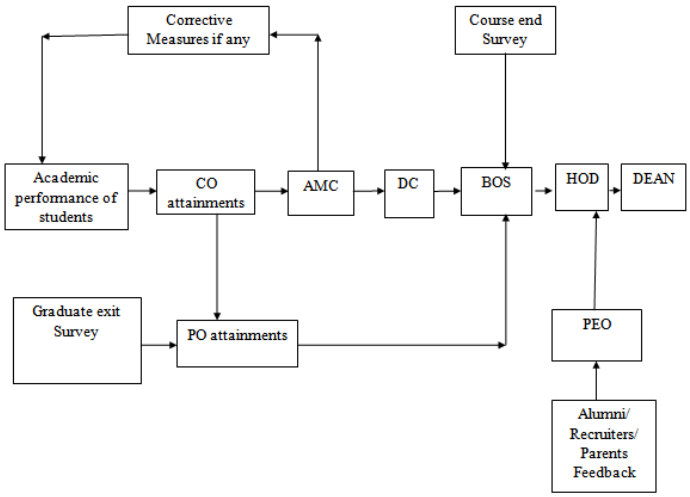
45. List the teaching methods adopted by the faculty for different programmes.
    - Chalk and Talk method with the help of ICT.
    - Experimental method
    - Role Play method.
    - Blended MOOCs.
    - Webinars
    - Model making

- Collage

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

    - The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the programme.
    - The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
    - The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.
    - The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of programme on POs. The survey results are used to quantify the attainments of COs and POs.
    - The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in programme outcomes by considering the various courses to which each PO is mapped.
    - The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
    - The Head of the Department and Dean of the Institute overview the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the programme to the Academic council for its approval.

PEOs MONITORING FLOW CHART



47. Highlight the participation of students and faculty in extension activities:
The students actively participate in events conducted under NCC, NSS, Cultural Clubs and Community services.

48. Give details of "beyond syllabus scholarly activities" of the department:

1. Collaboration with Cambridge English Language Assessment, Cambridge University for providing Business English Certificate (BEC) course to UG Engineering Students.
2. French Classes for engineering students.
3. Speaking Club

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:

- Learned faculty.
- Offer language expertise to other departments in research publications.
- Active involvement of faculty to upgrade their knowledge.

Weaknesses

- Consultancy

Opportunities

- Faculty have diversified research subjects which encourage submitting proposals to the funding agencies.
- Preparing the students for higher education entrance tests such as TOEFL, GRE, GMAT
- Acquiring foreign language (French) to the technical graduates.
- Opportunity to offer Research programme.
- Offering customized language training solutions to organizations/ industry on consultancy basis

Challenges

- Impart training to heterogeneous students for industry needs.
- To organize/attend national and international conferences/workshops /seminars.
- Personality development and Life skills to improve the scope of employment.

52. Future plans of the department

2016-17

- Conducting workshop on *Functional English* to the 1st year BTech students.
- To organize and conduct a workshop to the regional college/university teachers on "Improving the Writing skills of the Engineering students".
- Conducting a seminar on *Research Methodology in Humanities* for Faculty members.

2017-2018

- Conducting workshop on *Improving Written Proficiency* to the BTech students.
- Hosting a seminar on *Critical Reading*.
- Conducting National Conference
- Opening ELTAI Chapter at GITAM University, Bengaluru.
- Guiding research scholars for MPhil and PhD research programmes.
- Crafting Department newsletter.

2018-2019

- Establishing Department English Language Journal
- Conducting International Conference.

2019-2020

- Conducting Faculty Development Programme
- Conducting Personality Development Programme
- Conducting seminar on *Learn French at GITAM*
- Diploma course in Speaking and Writing proficiency.

***

Department of Engineering Mathematics

1. Name of the Department : **Engineering Mathematics**

2. Year of Establishment : **2012**

3. Is the Department part of a School/Faculty of the university?
   Yes. School of Technology, Off Campuss-Bengaluru

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc, D.Litt. etc.)

Service department to teach all courses of 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:
   Choice Based Credit System UnderSemester Pattern

9. Participation of the department in the courses offered by other departments:

S. No.	Course code	Course title	Offered to
1.	EMA101	ENGG.MATHEMATICS-1	COMMON TO ALL BRANCHES
2.	EMA102	ENGG.MATHEMATICS-2	COMMON TO ALL BRANCHES
3.	EMA103	ENGG.MATHEMATICS-3	COMMON TO ALL BRANCHES
4.	EMA104	ENGG.MATHEMATICS-4	COMMON TO ALL BRANCHES
5.	EURCE406	HIGHER ENGG.MATHEMATICS-3	CIVIL
6.	EURME401	NUMERICAL METHODS IN ENGG.	MECHANICAL
7.	EMA203	PROBABILITY AND STATISTICS	CSE
8.	MBA105	BUSINESS MATHEMATICS	MBA

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

	Sanctioned	**Filled**	**Actual (including CAS & MPS)**
Professor	1	0	1
Associate Professor	1	0	1
Assistant Professor	4	4	4

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

S.No.	**Name of Faculty**	**Designation**	**Qualification**	**Specialization**	**Years of Experience**	**Ph.D./ M.Phil. guided**
1.	Dr.V.Naga Radhika	Assistant Professor	Ph.D.	Fluid Dynamics	13.10	Nil.
2.	Dr.E.Mamatha	Assistant Professor	Ph.D.	Operation Research	5.6	1(PhD.)
3.	Dr.V.Ramachandriah	Assistant Professor	Ph.D.	Fluid Dynamics	12	Nil.
4.	Dr.B.Devika	Assistant Professor	Ph.D.	Fluid Dynamics	3.2	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 : 12.5:1

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

	Sanctioned	**Filled**	**Actual**
Support staff (technical)	0	0	0
Administrative staff	0	0	0

16. Research thrust areas as recognized by major funding agencies
    - Fluid Dynamics
    - Operational Research

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.
    - National Funding Agencies : Nil
    - International funding Agencies : 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 :Nil.
    - National Recognition :Nil.
    - International Recognition :Nil.

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

22. Publications:

Details		Number
No. of Papers	National Conferences	:5
	International Conferences	:3
	National Journals	:1
	International Journals	:15
Monographs		:Nil
Chapters in Books		:1
Edited Books		:Nil
Books with ISBN with Details of Publishers		:Nil
Number listed in International Database		:Nil
Citation Index - Range/Average		:6
Source Normalized Impact per Paper(SNIP)		:0
SC Imago Journal Rank (SJR)		:0
Impact Factor - range/average		:0

24. Details of Patents and Income Generated :Nil

25. Areas of Consultancy and Income Generated :Nil

26. Faculty selected nationally / internationally to visit other laboratories/ Institutions/industries in India and abroad :Nil

27. Faculty serving in

a) National committees :Nil.
b) International committees- Nil.
c) Editorial Boards :Nil.
d) any other (please specify) :Nil.

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

S.No	Recharging programme	Number of faculty
1	Refresher/ orientation programmes	0
2	Training Programmes	02
3	Workshops	06
4	Management Development Programme	0
5	Others	16

28. Student Projects

Percentage of students who have done in-house projects including inter-departmental projects :NA

Percentage of students doing projects in collaboration with other universities /industry / institute :NA

29. Awards / Recognitions received at the National and International Level by

Faculty : Nil.
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 Department:
The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students: NA

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

35. Student Progression: NA

36. Diversity of Staff

Percentage of faculty who are	
Graduates of the same University	Nil.
From other universities within the State	Nil.
From universities from other States	100%
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
Total No. of Titles:33
Total No. of Volumes:591

b) Internet facilities for staff and students :
All the staff and students are provided with internet Facility

c) Total number of class rooms :10

d) Class rooms with ICT facility :10

e) Students' laboratories :Nil.

f) Research laboratories :Nil.

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

a) from the host institution/university: Ph.D./ Research Associate

Name of the candidate	**Year of Award / Duration**
S.SARITHA(Ph.D)	2015

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.
The following procedure is adopted before introducing any new program:

The departments conduct the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program,

employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The departments also organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?
        - The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and its recommendations are placed before the Board of Studies for consideration.

        - The feedback on teaching-learning methodologies and assessment procedures is obtained from the faculty and discussed in the departmental committee and forwarded to the dean through the head of the department for necessary action.

    b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
        - The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
        - The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
        - The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also

available with the dean and, based on necessity, the dean will addresses the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
   - The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
   - One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

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

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

S.No	Date	Event	Guest	Topic
1	22/12/2015	Seminar	Dr. Sreedevi Jade	Mathematical Modelling and Computer Simulation
2	22/12/2015	Seminar	Dr.Padi Tirupathi Rao	Mathematical Modelling and Computer Simulation

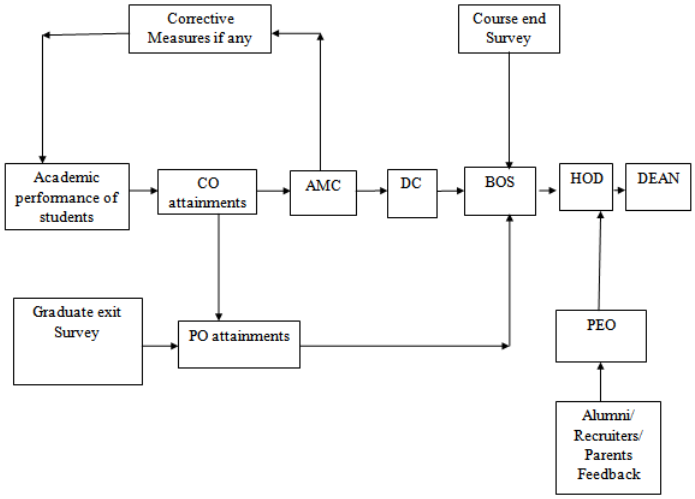
45. List the teaching methods adopted by the faculty for different programmes.

- Chalk and Talk method with the help of ICT.
- Experiential Method (Field visits)
- Blogs
- Role Play method.
- Blended MOOCs

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

- The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
- The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
- The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.
- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
- The performance of students in course outcomes lead to the evaluation of performance of students in program outcomes. The Board of Studies (BoS) monitors the performance of students in Programme outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and Dean of the Institute overview the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the Programme to the Academic council for its approval.

PEOs MONITORING FLOW CHART



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

The students actively participate in various activities organised by NCC, NSS, Cultural clubs and social service units.

48. Give details of "beyond syllabus scholarly activities" of the department.

The students actively participate in various seminars, workshops organised within and outside the university. They also involve in various departmental activities of professional bodies, GUSAC etc.

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. :

The department is committed to contribute in generating new knowledge through presentation of papers in conferences, publications, new teaching methodologies..

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

Strengths

- About 100% of the faculty are doctorates in diversified research subjects.

Weaknesses

- No Professors and Associate Professor in the Department.

Opportunities

- Faculty are well qualified and experienced which has ability to carryout/submit the research proposals to the finding agencies.
- To make the students more competent for Competitive exams(higher educational entrance tests like GATE, MS).

Challenges

- To establish the contractual research projects from outside agencies is a challenge.

52. Future Plans of the Department

Academic Year [2015 to 2016]

- To promote inter disciplinary research.
- To conduct National Seminar on the occasion the of International Mathematics Day in the month of 22nd December.
- Try to get SCI Papers

Academic Year [2016 to 2017]

- To apply for the projects to the Funding Agency
- To organize International Conference in various fields of related Mathematics in the month of October 2017.
- To establish Mathematics Club for the students of B.Tech& MBA in the month of January 2017.
- Applying for CSIR and DST projects and to improve research contribution in Mathematics Department.

Academic Year [2017 to 2018]

- To Scientific skills to be developed among the staff members and also for the students.
- To promote inter disciplinary research and Certificate programmes in Mathematics Club.
- To conduct International Conference in various fields
- To make the students for getting funding projects like UGC,DST, CSIR etc..

Academic Year [2018 to 2019]

- Participation of Industry in the research
- Applying/execution of CSIR and DST projects and to improve research contribution in the
- Department.
- To Start Journal on inter disciplinary areas of Electronics, computers and other branches.
- The curriculum and the syllabi are modified to meet the needs of industry.

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Department of Engineering Physics

1. Name of the Department : **Engineering Physics**
2. Year of establishment : **2012**
3. Is the Department part of a School/Faculty of the university?

   Yes. School of Technology, off campus – Bengaluru
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)

   Service department offering courses to B.Tech. programme.
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 and Choice Based Credit System
9. Participation of the department in the courses offered by other departments

S. No.	Course code	Course title	Offered to
1.	EPH 101	Engineering Physics-I in Ist semester	EEE,CSE,MECH,ECE,CIVIL
2.	EPH 102	Material Science (Elective)	EEE,CSE,MECH,ECE,CIVIL
3.	EPH 104	Solid State Physics (Elective)	EEE,CSE,MECH,ECE,CIVIL
4.	EPH 106	Physics of Nano materials (Elective)	EEE,CSE,MECH,ECE,CIVIL
5.	EPH 121	Engineering Physics Laboratory	EEE,CSE,MECH,ECE,CIVIL

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	0	0
Associate Professor	2	2	2
Asst. Professor	3	3	3
Others	0	0	0

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance List of senior Visiting Fellows, adjunct faculty, emeritus professors.

S.No.	Name	Qualification	Designation	Specialization	Years of Experience	Ph.D./ M.Phil. guided
1.	Dr. N.V Krishna Prasad	Ph.D.	Associate Professor	Space Physics	21	2
2.	Dr.K.Srinivas	Ph.D.	Associate Professor	Nanotechnology and superconducting electrons	26	0
3.	Dr.M.S.S.R. K.N.Sharma	Ph.D.	Assistant Professor	Space Physics	11	0
4.	Dr.Ramesh Singampalli	M.Phil.,Ph.D.	Assistant Professor	Ferrite nanoparticles	9	0
5.	Dr. Ayan Khan	Ph.D.	Assistant Professor	Theoretical Condensed Matter Physics	11	0

12. List of 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 12.5 :1

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

	Sanctioned	Filled	Actual
Support staff (technical)	1	0	0
Administrative staff	1	1	1

16. Research thrust areas as recognized by major funding agencies :
    - Material Science and Nanotechnology
    - Atmospheric Physics
    - Theoretical Condensed Matter Physics

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. :
    - Ongoing Sponsored Projects : Nil.
    - Completed Sponsored Projects: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 :Nil.
    - national recognition :Nil.
    - 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 :03 International : 04
    - Monographs :Nil.
    - Chapters in Books :Nil.
    - Edited Books :Nil.
    - Books with ISBN with details of publishers :Nil.
    - Number listed in International Databases (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.,): 03.
    - Citation Index- range/ average: Total Citation 49, Average Citation (Per Faculty): 9.8
    - SNIP: Nil.
    - SJR:Nil.
    - Impact Factor – range / average:Range 0-2.808, Average (Per Faculaty): 5.51
    - H-index: 6 (cumulative)

23. Details of patents and income generated : Nil.
24. Faculty selected nationally / internationally to visit other laboratories / institutions /Industries in India and abroad : Nil.
25. Areas of consultancy and income generated : Nil.
26. Faculty serving in

- National committees :Nil..
- International committees :Nil..
- Editorial Boards
  - Dr.N.V.Krishna Prasad is a reviewer for British journal of Mathematics and Computer science.
  - Dr.K.Srinvas is a Editior-in-chief for the Journal," American journal of superconductor and applications" a science publishing group journal.
  - Dr.K.Srinivas is a Editior/Reviewer Board member of International Journal of advanced computer research (IJSCR)

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).
    Faculty members attend international and national conferences / symposia / seminars / refresher courses / workshop / industrial visits / short term courses / periodically.

S.No	Recharging programme	Number of faculty
1	Refresher/ orientation programmes	0
2	Training Programmes	0
3	Workshops	3
4	Management Development Programme	0

28. Student projects: NA

29. Awards / recognitions received at the national and international level by :
    a. Faculty: Nil.
    b. Doctoral / post doctoral fellows :Nil.
    c. Students : Number :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 :
The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students in association with –NA

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 : Nil

36. Diversity of staff

Percentage of faculty who are :	
Graduates of the same university	0
From other universities within the state	0
From universities from other states	4
From universities outside the country	01

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 : Titles: 78 Volumes:80 (under basic science and humanities)
    b) Internet facilities for staff and students:
       All the staff and students are provided with internet Facility
    c) Total number of class rooms :10
    d) Class rooms with ICT facility :10
    e) Students' laboratories : 02
    f)Research laboratories : Nil.

39. List of doctoral, post-doctoral students and Research Associates
    a. from the host institution/university: Ph.D./ Research Associate

S.No.	Name of the candidate	Year of Award / Duration
1.	T .Klayan Prasad	In progress
2.	Ch.Ratnaiah	In Progress

    b. from other institutions/universities: NA

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

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

The following procedure is adopted before introducing any new program:

The departments conduct the need analysis for the proposed new programme before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The departments also organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

After considering the recommendations, the Board of Studies discusses the

proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval

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?

- The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and its recommendations are placed before the Board of Studies for consideration.
- The feedback on teaching-learning methodologies and assessment procedures is obtained from the faculty and discussed in the departmental committee and forwarded to the dean through the head of the department for necessary action.

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

- The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean addresses the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to

give their valuable suggestions and recommendations on the curriculum of the program keeping in view of the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.

- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the Board of Studies which deliberates and recommends for implementation in their yearly meetings.

43. List the distinguished alumni of the department:NA.

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

45. List the teaching methods adopted by the faculty for different programmes.
    a. Chalk and Talk method with the help of ICT.
    b. Experimental demonstration

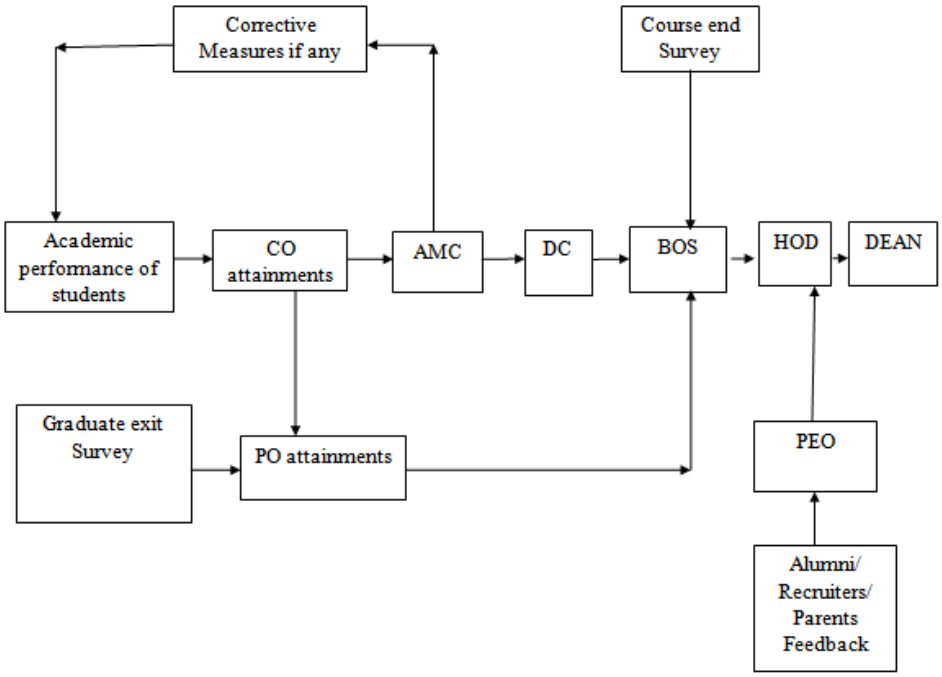
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
- The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
- The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.
- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach

by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.

- The performance of students in course outcomes lead to the evaluation of performance of students in program outcomes. The Board of Studies (BoS) monitors the performance of students in program outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and Dean of the Institute overview the proceedings of AMC & DC and confirm the POs are properly mapped with PEOs. The Dean that frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the program to the Academic council for its approval.

PEOs MONITORING FLOW CHART



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

The students actively participate in various activities organised by NCC, NSS, Cultural clubs and social service units.

48. Give details of "beyond syllabus scholarly activities" of the department:

The students actively participate in various seminars, workshops organised within and outside the university. They also involve in various departmental activities of professional bodies, GUSAC etc.

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.
    a. We are working on the research projects for the development of new research labs in the college.
    b. We are engaging with other departments to establish a vibrant research atmosphere.

51. Detail five major SWOC of the department

Strengths:

- Dedicated and committed faculty
- Student friendly environment

Weaknesses:

- Consultancy

Opportunities:

- Interdisciplinary Research can be carried out.
- Collaborative programmes can be initiated.

Challenges:

- To keep face with the changes in industry brought in to curriculum.
- Motivate students in interdisciplinary projects.

52. Future plans of the department.

- To train students to master the basics of the subject and improve their soft skills through several interactive sessions both in theory and practical's.
- To motivate teachers to guide undergraduate students for research projects.
- To develop the department as centre of excellence and to receive more funding to pursue cutting edge research projects.

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Department of Engineering Chemistry

1. Name of the Department : **Engineering Chemistry**

2. Year of establishment : **2012**

3. Is the Department part of a School/Faculty of the university?
   Yes. School of Technology, Off Campus - Bengaluru

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)
   Service Department offering courses to B. Tech programme

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 and Choice Based Credit System

9. Participation of the department in the courses offered by other departments

S. No.	Course code	Course title	Offered to
1.	ECY101	Engineering Chemistry	B.Tech (Civil, Mech, EEE, ECE, CSE)
2.	ECY121	Engineering Chemistry Laboratory	B.Tech (Civil, Mech, EEE, ECE, CSE)
3.	ECY102	Chemical Aspects of Engineering Materials	B.Tech (Civil, Mech, EEE, ECE, CSE)
4.	ECY104	Advanced Engineering Chemistry	B.Tech (Civil, Mech, EEE, ECE, CSE)
5.	ECY106	Chemistry of Advanced Materials	B.Tech (Civil, Mech, EEE, ECE, CSE)
6.	EHS201	Environmental Studies	B.Tech (Civil, Mech, EEE, ECE, CSE)
7.	EURCS8510	Engineering Materials	B.Tech (CSE)

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

	Sanctioned	**Filled**	**Actual (including CAS & MPS)**
Professor	1	1	1
Associate Professor	1	0	0
Asst. Professor	7	7	7
Others	0	0	0

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

S.No.	**Name**	**Qualification**	**Designation**	**Specialization**	**No. of years of Experience**	**Ph.D./ M.Phil. guided**
1.	Dr. R.Venkata Nadh	M.Sc. M.Phil. Ph.D.	Professor	Analytical, Environmental and Biological Activities	23 yrs	7
1.	Dr. R Jaya kumar Iyer	M.Sc. M.Phil. Ph.D.(Environmental Sciences)	Assitant Professor	Environmental Toxicology	18 yrs	1
2.	Dr. Ramakrishna rao	Ph.D.	Assitant Professor	Co Ordination and Bio Inorganic Chemistry	10 yrs	-
3.	Dr. Annapragada Ratnamala	Ph.D.	Assitant Professor	Chemistry-Catalysis		
4.	Dr.R.Dileep	Ph.D.	Assitant Professor	Inorganic Complexes	2 yrs	-
5.	Dr. K. Venkata Ratnam	M.Sc., M.Phil., Ph.D.	Assitant Professor	Physical Organic Chemistry	14 yrs	-
6.	Dr. Mamata Singh	Ph.D.	Assitant Professor	Inorganic Chemistry Coordination and Bioinorganic Chemistry	1 yr	-
7.	Dr. H. Manjunatha	PhD.	Asst Prof	Electro Chemistry	10 yrs	

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors.
    Dr.Jaganmohana Rao, Scientist, CFTRI - Mysore

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

14. Programme-wise Student Teacher Ratio: 12.5 :1

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

Type of staff	Name	Designation	Qualification
Academic support staff	Mr.Ramakrishna	Laboratory Assistant	B.Sc.,
Administrative Staff	--	--	--

16. Research thrust areas as recognized by major funding agencies :
    Animal Sciences (Biomarkers and Toxicology)
    Environmental Science

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.

S. No.	**Name of the Faculty**	**Project title**	**Details of the funding agency**	**Grants received (Rs. in lakhs)**
National Funding agencies				
1	Dr. R. Jayakumar	Evaluation of Biochemical responses to Environmental contaminants as biomarkers in the fishes of Andhra Coast	DST	26.01
2	Dr. R. Jayakumar	Assessment of e-waste toxicity on the Earthworm species (*Eisenia fetida*).	UGC MRP	1.07

a.) International Projects: Nil.
b.) Completed projects: Nil
c.) Total grants received: Nil

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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 : Nil.
    - national recognition : Nil.
    - 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 : 03, International: 14
- Monograps : 0
- Chapters in Books : 0
- Edited Books : 0
- Books with ISBN with details of publishers:0
- Number listed in International Databases (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.,):17
- Citation Index- range/ average (Total - all the faculty and average)
- Range: 2 to 32 , Average: 12
- SNIP (Source Normalized Impact per Paper): Nil.
- SJR (SCImago Journal Rank): Nil.
- Impact Factor – range / average (Total - all the faculty)
- Range – 0 to 4.097 ,Average – 1.8
- H-index (Total - all the faculty): 24 cumulative

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

S.No.	Name of the Faculty	laboratories / institutions/ Industries in India and abroad
1.	Dr.Jayakumar	i) Ecotoxicology Laboratory, Salim Ali Centre for Ornithology and Natural History, MOEF, Coimbatore
		ii) Genotoxicity Laboratory, Anna University, Tiruchirapalli

26. Faculty serving in

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

S. No.	Name	National Committees / International Committees /Editorial Boards
1.	Dr.Ramakrishna Rao	i) Editorial Board Member, International Journal of Chemical Synthesis and Chemical Reactions

		ii) Editorial Board Member, International Journal of Thermodynamics and Chemical Kinetics
		iii) Editorial Board Member, International Journal of Photochemistry
2.	Dr.Jayakumar Iyer	Member, Board of Studies, Zoology, PSG College of Arts and Science, Coimbatore

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).
Faculty members attend international and national conferences / symposia / seminars / refresher courses / workshop / industrial visits / short term courses / periodically.

S.No	Recharging programme	Number of faculty
1	Refresher/ orientation programmes	7
2	Training Programmes	1
3	Workshops	-
4	Management Development Programme	-
5	Others	-

28. Student projects: Not Applicable

29. Awards / recognitions received at the national and international level by
faculty Awards / Recognition: Nil.
Doctoral / post doctoral fellows Nil.
Students : NA

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 :
The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students– NA

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 :NA

36. Diversity of staff

Percentage of faculty who are :	
Graduates of the same university	0
From other universities within the state	29%
From universities from other states	71%
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
    a. Library : Titles: 78 Volumes:80
    b. Internet facilities for staff and students:
       All the staff and students are provided with internet Facility
    b. Total number of class rooms : 10
    c. Class rooms with ICT facility :10
        a. Students' laboratories : 01
        b. Research laboratories : 01

39. List of doctoral, post-doctoral students and Research Associates
    a. from the host institution/university: Ph.D./ Research Associate

Name of the candidate	**Year of Award / Duration**
Mr.Vijaya Hemmadi-JRF	2015-18

    b. from other institutions/universities NA

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.

    The following procedure is adopted before introducing any new program:

    The departments conducts the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The departments also organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

42. Does the department obtain feedback from (University provides information)
    a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
        - The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and its recommendations are placed before the Board of Studies for consideration.
        - The feedback on teaching-learning methodologies and assessment procedures is obtained from the faculty and discussed in the departmental committee and forwarded to the dean through the head of the department for necessary action.

    b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
        - The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
        - The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
        - The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean addresses the faculty and appropriate measures are taken for improvement of teaching learning process.

    c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view of the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

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

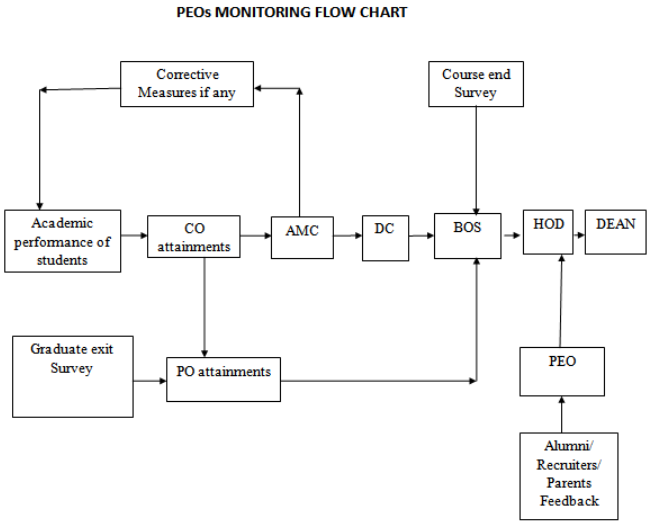
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Nil.

45. List the teaching methods adopted by the faculty for different programmes.
    - Chalk and Talk method with the help of ICT.
    - Experimental method
    - Experiential Method (Field visits)Role Play method.

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

    - The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
    - The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
    - The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.

- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
- The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in program outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and the Dean of the Institute overview the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the programme to the Academic council for its approval.



47. Highlight the participation of students and faculty in extension activities:
The students actively participate in various activities organised by NCC, NSS, Cultural clubs and social service units.

48. Give details of "beyond syllabus scholarly activities" of the department:
The students actively participate in various seminars, workshops organised within and outside the university. They also involve in various departmental activities of professional bodies, GUSAC etc

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : NO

50. Briefly highlight the contributions of the department in generating new

knowledge, basic or applied.:

The department is committed to contribute in generating new knowledge through presentation of papers in conferences, publications, new teaching methodologies

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

Strengths:

- Learned Faculty
- Research

Weaknesses

- Consultancy

Opportunities

- MoUs with local research institutions / industries
- Interdisciplinary participation in projects.

Challenges

- The rapport with industry should be encouraged further.
- To introduce industry related certificate programmes

52. Future plans of the department.

2016-17

- Registering scholars for Ph.D. programme under all doctorate faculty members
- Obtaining atleast one funded research project per each faculty member
- Conducting one funded national conference
- Establishment of another Chemistry Laboratory

2017-18

- Establishment of an additional research laboratory
- Conducting one funded national conference

2019-20

- Offering M.Sc programme
- Conducting one funded international conference

2020-21

- Conducting one funded national conference

***

Department of Civil Engineering

1. Name of the Department : **Civil Engineering**

2. Year of Establishment : **2013**

3. Is the Department part of a School/Faculty of the university?
   Yes, School of Technology, Off Campus- Bengaluru

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc, D.Litt. etc.)
   UG -B. Tech (Civil 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, if any, with reasons :Nil..

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:
   Semester and Choice Based Credit System

9. Participation of the department in the courses offered by other departments
   :Nil.

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

	Sanctioned	**Filled**	**Actual (including CAS & MPS)**
Professor	1	1	1
Associate Professor	0	0	0
Assistant Professor	5	5	5

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

S. No.	Name of Faculty	Designation	Qualification	Specialization	Years of Experience	Ph.D/ M.Phil guided
1	Dr.K Vijaya Bhaskar Raju	Director, Prof.& Head	Ph.D.	Geotechnical Engineering	31.5	1
2	Mrs. G V. Rathnamala	Assistant Professor	M.Tech.	Environmental Engineering	5	
3	Mrs.Ashwini R M	Assistant Professor	M.Tech.	Structural Engineering	4.8	-
4	Mr. Chandra shekhar	AP	M.Tech.	Structural Engineering	4.5	-
5	Mr.M Madhu Babu	Assistant Professor	M.Tech.	Transportation Engineering	0.7	-
6	Reshma T V	Assistant Professor	M.Tech.	Structural Engineering	0.7	-

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors

S.No	Name of the Guest	Conference/Seminar	Date
1	Dr.C. Raja Gopal Reddy Professor,Department of Civil Engineering MSRIT,Bengaluru	PRERANA-2K15-National Level Technical Symposium	28-03-2015
2	Dr.V Ramchandra, President, Ultra-Tech Cement South Zone	Seminar-challenges and opportunities in Civil Engineering	01-10-2015
3	Prof. Chandra Kishan Ji Professor,Department of Civil Engineering IISc Bengaluru	Seminar- Learning how to learn Engineering	05/12/2015

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

14. Programme-wise Student Teacher Ratio
UG: 4.2 :1

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

	Sanctioned	Filled	Actual
Support staff (technical)	3	3	3
Administrative staff	0	0	0

16. Research thrust areas as recognized by major funding agencies –

- Geotechnical Engineering

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.
    - National Funding Agencies : Nil.
    - International funding Agencies : 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 :Nil.
    - National Recognition :Nil.
    - 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) -13
    - Monographs :3
    - Chapters in Books :0
    - Edited Books :0
    - Books with ISBN with details of publishers :0
    - Number listed in International Database :0
    - Citation Index – Range / Average 0.5-0.7
    - SNIP :0
    - SJR :0
    - Impact Factor – Range / Average: 0.5 –5.64

23. Details of Patents and Income Generated :Nil.

24. Areas of Consultancy and Income Generated :
    a. M S Ramaiah constructions- 2 lakhs

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

26. Faculty serving in
    - National committees
    - International committees

- Editorial Boards
- any other (please specify)

Sl.No	National Committees	International committees	Editorial Boards	Any other
1.	1	0	1	1

a) Dr K V IJAYA Bhaskar Raju -

- Member- Board of Studies (Civil Engineering) – Vel's University, Chennai.
- Member- Board of Studies (Civil Engineering) – Bharath University, Chennai.
- Member- Board of Studies (Civil Engineering) – Anna University, Chennai.
- Member-Academic Council-University of Madras, Chennai.
- Member-Section Managing Committee of ISTE, Tamilnadu Section.

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

S.No	Recharging programme	Number of faculty
1	Refresher/ orientation programmes	2
2	Training Programmes	0
3	Workshops	1
4	Management Development Programme	1
5	Others	1

28. Student Projects

- Percentage of students who have done in-house projects including inter-departmental projects :NA
- Percentage of students doing projects in collaboration with other universities /industry / institute :NA

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

- Faculty Awards / Recognition: 01

Name of the Faculty	Awards / Honors / Recognitions
G V Rathnamala	2nd Rank in M.Tech Environmental Engineering at PESCE Mandya –VTU -2012

- Doctoral / post doctoral fellows :Nil.
- Students :

Name of the student	Details of Achievement	Dates
G.Punith	Project expo on Tokyo gate bridge (ZEPHYR)	30/12/2015

Giridhar Mogili	Skits in Kalakruthi and Aarush2K 15	14/08/15
	Model on Tokyo gate bridge	15/09/15
	Workshops attended in Chennai "Civil Engineering Applications"	27/05/2015 to 29/05/2015
Khyathi S.R.	Workshops attended in Chennai "Civil Engineering Applications"	27/05/2015 to 29/05/2015
	Model on Tokyo gate bridge	15/09/15
Kiran balija setty	Workshop attended in Chennai Civil Engineering Applications	27/05/2015 to 29/05/2015
	Model on Tokyo gate bridge	15/09/15
	Participated in Aarush 2K15	14/08/15
	Workshops attended in Chennai	27/05/2015 to 29/05/2015
Vamseekrishna Ganjikunta	Skits in Kalakruthi and Aarush2K 15	14/08/15
	Model on Tokyo gate bridge	15/09/15
Vivek Kancharla	Participated in Aarush2K 15	14/08/15
	Presentation on Kethipara	30/12/2015
	Skits in Kalakruthi and Aarush2K 15	14/08/15
	Model on Tokyo gate bridge	15/09/15

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sl.No	Seminars/Conference/Workshops	Funding Agencies	No of Participants
		National	
1	National Symposium-PRERANA-2K15	GST, Bengaluru Campus	51
2	Technical Seminar by Dr.V Ramchandra	GST, Bengaluru Campus	51

31. Code of Ethics for Research followed by the Department :
The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students: NA

34. Examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :Nil.

35. Student Progression :NA

36. Diversity of Staff:

Percentage of faculty who are	
Graduates of the same University	0%
From other universities within the State	66.6%
From universities from other States	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 : Titles: 54 Volumes:59
    b. Internet facilities for staff and students:
       All the staff and students are provided with internet Facility
    c. Total number of class rooms :03
    d. Class rooms with ICT facility :03
    e. Students' laboratories : 10
    f. Research laboratories : 01

39. List of doctoral, post-doctoral students and Research Associates - 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.
    The following procedure is adopted before introducing any new program:
    - The departments conduct the need analysis for the proposed new programme before introducing. The need analysis comprises demand for the programme, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.
    - The departments also organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.
    - After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?

- The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and their recommendations are placed before the Board of Studies for consideration.

- The feedback on teaching-learning methodologies and assessment procedures are obtained from the faculty and discussed in the departmental committee and forwarded to the dean through head of the department for necessary action.

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

- The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second oneat the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean will address the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

43. List the distinguished alumni of the department -NA

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

S.No	Date	Event	Guest	Topic
1	22-08-2014	Special Lecture	Prof.Manjunath D.M	Analysis of Trusses using Castiglione's Theorem McCauley's Method, Unit Load
2	11-11-2014	Special Lecture	Prof.Sidde Gowda	Building Materials and construction, Special concretes, Building Planning and
3	28/03/2015	National symposium m 2K15	Prof. Raja Gopal Reddy	Trends in Civil Engineering
4	01/10/2015	Seminar	Dr. V Rama Chandra	Opportunities in Civil Engineering
5	02/11/2015	Special Lecture	Dr. M B Ananthayya	Steel Structures

45. List the teaching methods adopted by the faculty for different programmes.
In addition to the chalk and talk method of teaching, the following methods are also used:

- Audio-visual presentation for theory and practical classes
- Chalk and Talk method with the help of ICT.
- Experimental method
- Experiential Method (Field visits)
- Blogs
- Role Play method.
- Blended MOOCs.
- Webinars

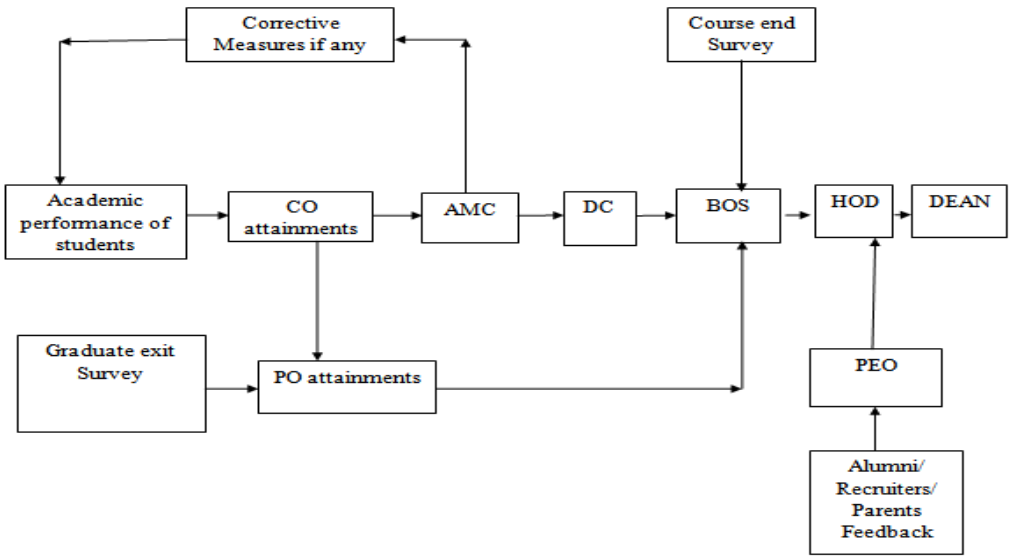
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
- The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
- The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC

meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.

- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
- The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in program outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and Dean of the Institute overview the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the programme to the Academic council for its approval.

PEOs MONITORING FLOW CHART



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

The students and faculty of the university have participated in various social awareness programmes, Model Making, Extensive Survey projects,Poster presentation in different Technical Fest organised by Various Departments.
Technical quiz.

48. Give details of "beyond syllabus scholarly activities" of the department.

S. No	Name of the Student	Academic Achievements	Date
1	G.Punith	Project expo on Tokyo gate bridge (ZEPHYR)	30/12/2015
2	Giridhar Mogili	Skits in Kalakruthi and Aarush2K 15	14/08/15
		Model on Tokyo gate bridge	15/09/15
		Workshops attended in Chennai "Civil Engineering Applications"	27/05/2015 to 29/05/2015
3	Khyathi S.R.	Workshops attended in Chennai "Civil Engineering Applications"	27/05/2015 to 29/05/2015
		Model on Tokyo gate bridge	15/09/15
4	Kiran balija setty	Workshop attended in Chennai Civil Engineering Applications	27/05/2015 to 29/05/2015
		Model on Tokyo gate bridge	15/09/15
		Participated in Aarush 2K15	14/08/15
5	Sai Sreemanth Gupta M	Skits in Kalakruthi and Aarush2K 15	14/08/15
		Model on Tokyo gate bridge	15/09/15
		Workshops attended in Chennai	27/05/2015 - 29/05/2015
6	Vamseekrishna Ganjikunta	Skits in Kalakruthi and Aarush2K 15	14/08/15
		Model on Tokyo gate bridge	15/09/15
7	Vivek Kancharla	Participated in Aarush2K 15	14/08/15
		Presentation on Kethipara	30/12/2015
		Skits in Kalakruthi and Aarush2K 15	14/08/15
		Model on Tokyo gate bridge	15/09/15
8	B.Sai Charan	Skits in Kalakruthi and Aarush2K15	14/08/15

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.

The following contributions help in generating knowledge.

- Well Equipped, Research Oriented labs.

- GITAM University science Activity Centre.
- National Symposium (2015) On "Recent trends in Civil Engineering".
- VITAC club (Visvaswarya innovative technical association in civil engineering).

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

Strengths

- Qualified and committed faculty
- Advanced equipment and Infrastructure

Weaknesses

- Lack of Sponsored Research
- Consultancy

Opportunities

- Internship opportunities, Industry visits
- New Academic programmes

Challenges

- Need to improve intake.
- Competition from repute Universities

52. Future Plans of the Department

Academic Year [2016 to 2017]

- To access various journals to encourage the students for research.
- Consultancy in Concrete Cube Testing, Soil Testing,Water testing

Academic Year [2017 to 2018]

- To conduct International Conference on "Recent applications in Civil Engineering"
- To invite industrialist and eminent personalities to groom our students.

Academic Year [2018 to 2019]

- Creating facilities for inducing research projects.

- To start up Post graduate Programmes.

Academic Year [2019 to 2020]

- To apply for the projects to the Funding Agencies

***

Department of Mechanical Engineering

1. Name of the Department : **Mechanical Engineering**

2. Year of establishment : **2013**

3. Is the Department part of a School/Faculty of the university?
   Yes. School of Technology Off Campus - Bengaluru.

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)
   UG: B. Tech. (Mechanical 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, if any, with reasons: Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:
   Semester and Choice Based Credit System

9. Participation of the department in the courses offered by other departments

S.No	Course title	Offered to
1	Engineering Mechanics	Civil
2	Engineering Drawing	Civil, ECE, CSE
3	Operation Research	MBA
4	Operation Management	MBA

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	0	0	0
Asst. Professor	11	11	11

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

S.No.	Name	Qualification	Designation	Specialization	years of Experience	Ph.D.& M.Phil. guided
1.	Dr T Nageswara Rao	Ph. D.	Professor	Thermal power engineering	20	5(pursuing)
2.	S Rajasekhar	M.Tech.	Assistant Professor	Machine Design	12	
3.	B V Raghu vamshi	M. Tech.	Assistant Professor	Mechatronics	05	
4.	B Muralidhar	M. Tech.	Assistant Professor	Mechatronics	05	
5.	C Subhash	M. Tech.	Assistant Professor	Computer Integrated Manufacturing	04	
6.	P Shiva Kumar	M.Tech.	Assistant Professor	Industrial Engineering	04	
7.	K Sai Jyotheender	M.Tech.	Assistant Professor	Material Science & Engineering	02	
8.	Shishira Bagawath	M. Tech.	Assistant Professor	Foundry technology	01	
9.	Ashif Equbal	M.Tech.	Assistant Professor	Material Science	02	
10.	Manojit C	M.Tech.	Assistant Professor	Computer Integrated Manufacturing	01	
11.	Rajesh M N	M.Tech.	Assistant Professor	Machine Design	03	
12.	Prashanth Gowda	M. S.	Assistant Professor	Manufacturing Systems	9	

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 : 7.2 :1

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

	Sanctioned	Actual	Filled
Technical Assistant	2	2	2
Lab Technician	4	4	4

16. Research thrust areas as recognized by major funding agencies
    - Nano composite materials

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:Nil
    - national recognition:Nil
    - 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 - 0 International – 4
    - Monographs - Nil
    - Chapters in Books – Nil
    - Edited Books – Nil
    - Books with ISBN with details of publishers – 1
    - Number listed in International Databases - 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 - Nil
    a) National committees b) International committees c) Editorial Boards d) any other (please specify) : Nil.

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

S.No	Recharging programme	Number of faculty
1	Refresher/ orientation programmes	0
2	Training Programmes	0
3	Workshops	2
4	Management Development Programme	11

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 : Nil
- Doctoral / post doctoral fellows : Nil
- Students : Awarded 1st Prize in paper presentation at National level symposium.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sl.No	Seminars/Conference/Workshops	Funding Agencies	No of Participants
		National	
1	National Technical symposium – Prerana 2015	GITAM university	50

31. Code of ethics for research followed by the departments

The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students : NA

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 :Nil.

36. Diversity of staff

Percentage of faculty who are	
Graduates of the same University	Nil
From other universities within the State	36%
From universities from other States	64%
From universities outside the country	8%

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 : Titles – 108, Volumes - 1493
- Internet facilities for staff and students –All the staff and student are provided with internet facility
- Total number of class rooms: 05
- Students' laboratories :15
- Research laboratories : Nil
- Class rooms with ICT facility: 04

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.

    The following procedure is adopted before introducing any new programme:

    The department conducts the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

    The department also organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

    After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?

- The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and its recommendations are placed before the Board of Studies for consideration.

- The feedback on teaching-learning methodologies and assessment procedures is obtained from the faculty and discussed in the departmental committee and forwarded to the dean through the head of the department for necessary action.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
   - The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
   - The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
   - The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is alsoavailable with the dean and, based on necessity, the dean addresses the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
   - The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the programme keeping in view the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.

- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings..

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.	Name of the Expert	Title of the Lecture	Date
1	Sri S V V Satyanarayana Senior Aerospace Engineer Head of Training Atkins Aerospace India & Ravi kumar National Manager – Technical Training EDS Technologies Pvt. Ltd.	Overview of Aerospace, civil and Automotive Industry Trends Cad, Cae, Information technology perspective	04/07/2015
2	Mr. Linga Bhat AGM L&T Construction Equipment	Inauguration of programme & training on courses CATIA & Auto CAD	13/07/2015
3	K P Murthy SAE Inauguration	SUPRA SAE India	23/07/2015
4	Mr. Purushotham S Joshi	Vehicular sketching to final production and testing	08/08/2015
5	Expert Team Dassault System	Dassault systems technologies and industry connect	20/08/2015

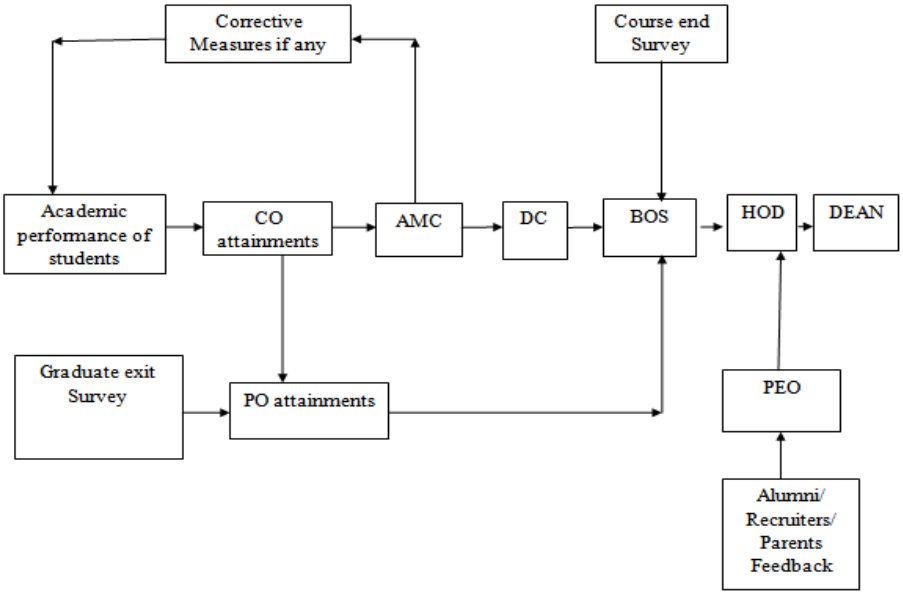
45. List the teaching methods adopted by the faculty for different programmes.
    - Black Board Teaching
    - Power Point Presentations
    - Experiential learning through field visits
    - ICT Enabled teaching methods

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

    - The programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.

- The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
- The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.
- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
- The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in program outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and the Dean of the Institute overviews the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the program to the Academic council for its approval.

PEOs MONITORING FLOW CHART



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

    The students actively participate in various activities organised by NCC, NSS, Cultural clubs and social service units.

48. Give details of "beyond syllabus scholarly activities" of the department.
    The students actively participate in various seminars, workshops organised within and outside the university. They also involve in various departmental activities of professional bodies, GUSAC etc.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
    The department is committed to contribute in generating new knowledge through presentation of papers in conferences, publications, new teaching methodologies, value added courses and conducting industrial visits/training activities .

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

Strengths

- Conducive environment.
- Teaching pedagogy with industrial / real time application approach.

Weaknesses

- Lack of motivated students
- Lack of collaborative research

Opportunities

- Enhanced industry institute interaction.
- Skill based learning

Challenges

- Recruitment of doctorates from IITs and NITs.
- Encourage students to become entrepreneurs.
- Establish Testing laboratories.

52. Future plans of the department.

- 2016-17 – Commissioning of Robert Bosch Testing and Training centre
- 2017-18 – Induction of New M-Tech Programme in Machine Design
- 2018-19 – Setup Industrial Robotics Lab
- 2019-20 – Advanced Nano Composite Material Testing Lab
- 2020-21 - Biofuel Testing Laboratory

***

Department of Electrical and Electronics Engineering

1. Name of the Department : **Electrical and Electronics Engineering**

2. Year of Establishment : **2014**

3. Is the Department part of a School/Faculty of the university?
   Yes.School of Technology, Off Campus - Bengaluru.

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc, D.Litt. etc.)
   UG: B. Tech. (Electrical & Electronics 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, if any, with reasons :Nil.

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :
   Semester System and Choice Based Credit System

9. Participation of the department in the courses offered by other departments

10.

S. No.	Course Code	Course Title	Offered by
1.	EUREC303	Basic Circuit theory	ECE
2.	EUREC406	Control Systems	ECE
3.	EEE101	Basic Electrical Engineering	ECE
4.	EURME 405	Elements of Electrical & Electronics Engineering	ECE
5.	EEE103	Basic Electrical and Electronics Engineering	MECH

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	01
Associate Professor	00	00	00
Assistant Professor	04	04	04

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

S.No.	Name of Faculty	Designation	Qualification	Specialization	Years of Experience	Ph.D/ M.Phil guided
1	Dr.G.V.Nagesh Kumar	M.E.,Ph.D.	Professor	Control Systems	14	1
2	A.Nagaraju	M.Tech.	Asst.Professor	Power Electronics	06	Nil
3	K.Lokeswara Rao	M.Tech.	Asst.Professor	Power and Energy Systems	07	Nil
4	S.V.Phanidhar	M.Tech.	Asst.Professor	Power Apparatus & Systems	10	Nil
5	Ravindranadh Chowdary Vankina	M.Tech.	Asst.Professor	Power and Energy Systems	02	Nil

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors :
    Dr.G.Vishwanadh Raju,GE, Bengaluru.
    Dr.M.Mithun Bhaskar,Tata Elaxi, Bengaluru.

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

14. Programme-wise Student Teacher Ratio 2.2 : 1

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

	Actual	Filled
Support staff (Technical)	01	01

16. Research thrust areas as recognized by major funding agencies
    Bearingless Drives.

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 :Nil
    - National Recognition :Nil
    - International Recognition :Nil

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

22. Publications:
    - No. of Papers National Conferences:17
    - No. of Papers International Conferences:15
    - No. of Papers National Journals:6
    - No. of Papers International Journals:43
    - Monographs:Nil
    - Chapters in Books:Nil
    - Edited Books:Nil
    - Books with ISBN with Details of Publishers:Nil
    - Number listed in International Database:Nil
    - Citation Index - Range/Average:Nil
    - Source Normalized Impact per Paper(SNIP):Nil
    - SC Imago Journal Rank (SJR):Nil
    - Impact Factor - range/average:0.45
    - H-Index: 3

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
    a. National committees
    b. International committees
    c. Editorial Boards
        - Technical Programme Committee Member for 5th International Conference on Computer Science and Information Technology (ICCSIT 2012) held in Hong Kong during December 29 - 30, 2012.
        - Member of Editorial Board for International Journal of Research.
        - Editorial Board Member for International Journal of Advanced Engineering and Applications Associate Editor for Scientific Journals International.

- Member of Conference Committee for Organizing 95th Annual Conference of the Indian Economic Association held at GITAM University, 27- 29, Dec 2012.
- Organizing Co-Chair for Asia-Pacific Conference on Postgraduate Research in Microelectronics and Electronics (Prime Asia) 2013, sponsored by the IEEE Circuits and Systems Society, to be held during December 19-21, 2013 at GITAM University, Visakhapatnam, Andhra Pradesh, India.

d) any other (please specify)
- State steering Member for Indian Society for Technical Education

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

Year	Total
Faculty Development programmes	07
Refresher/Orientation Programmes	01
Training Programmes	01
Workshops	05
Management Development Programme	01
Total	15

28. Student Projects: Nil.

29. Awards / Recognitions received at the National and International Level by
- Faculty :04
- 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: 01

31. Code of Ethics for Research followed by the Department
The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students: NA

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 : NA

36. Diversity of Staff

Percentage of faculty who are	
Graduates of the same University	20%
From other universities within the State	Nil.
From universities from 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 :
    - Library : Titles: 47 Volumes:47
    - Staff and students of EEE Department are provided with Wireless Internet Facility
    - Total number of class rooms :01
    - Class rooms with ICT facility :01
    - Students' laboratories :04

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.

The following procedure is adopted before introducing any new programme:

The department conducts the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The department organizes workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?

- The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and its recommendations are placed before the Board of Studies for consideration.

- The feedback on teaching-learning methodologies and assessment procedures is obtained from the faculty and discussed in the departmental committee and forwarded to the dean through the head of the department for necessary action.

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

- The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean, and based on necessity, the dean addresses the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view of the latest industrial practices and technology developments. These suggestions are

consolidated by the head of the department and placed before the Board of Studies for its consideration.

- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

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.:

Sl.No	Event Name	Guest/Expert Member
1	Prerana 2015	Prof. A RaghuNandan
2	Seminar on Innovation	Dr. Shyam Vasudeva Rao, MD, Forus Health Pvt.Ltd.
3	Personality Development: "How to become a Good Engineer"	K.V.S.G. Murali Krishna JNTU-Kakinada

45. List the teaching methods adopted by the faculty for different programmes.
    - Chalk and Talk method with the help of ICT.
    - Experimental method.
    - Field Visit
    - Blogs
    - Role Play method.

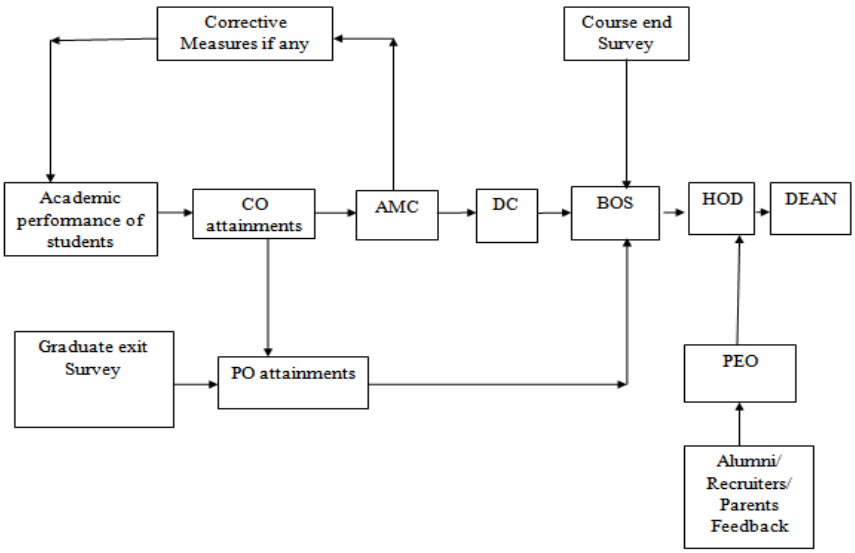
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

    - The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
    - The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
    - The teacher conducts class tests / assignments / quizzes in his class throughout

the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.

- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
- The performance of students in course outcomes lead to the evaluation of performance of students in program outcomes. The Board of Studies (BoS) monitors the performance of students in program outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and the Dean of the Institute overview the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the programme to the Academic council for its approval

PEOs MONITORING FLOW CHART



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

- Students of NSS and SARPANCH of Doddaballpur Panchayat, local leaders and social workers of Doddaballapur organized Swatch Bharat Abhiyan at Doddaballapur.

- Blood donation camp was organized by NSS unit on 14th March, 2015 at GST, Bengaluru Campus. 133 Cubics of blood was collected and donated to

Lions Blood Bank, Doddaballapur.

48. Give details of "beyond syllabus scholarly activities" of the department.

- The students of the department have actively participated and organized various workshops, seminars in various fields that span over a wide range of active areas in Electrical engineering. All the students of the department are active members of GUSAC.

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. :
    - The faculty published good number of papers in repute journals.

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

Strengths:

- Learned faculty.
- Industry oriented curriculum.
- State of the art infrastructure and Laboratory facilities.

Weaknesses:

- Lack of collaborative research
- Lack of student societies and professional bodies
- Lack of faculty with Ph.D's.

Opportunities

- Industry Institute interaction
- Consultancy
- Student Exchange programmes

Challenges

- Periodical changes in technology necessitating the need for constant up-gradation of laboratories.
- Competition from Foreign Universities.

52. Future Plans of the Department

Academic Year [2016-17]

- To conduct Workshop on" Energy Auditing".
- To establish centres of excellence in Bearingless drives

- To apply for the projects to the Funding Agencies
- To conduct Student Conference on recent trends in Electrical engineering

Academic Year [2017-18]

- Consultancy in the area of Power Quality
- To conduct International Conference on "Advances in Electrical Engineering"

Academic Year [2018-19]

- Participation of Industry in the research.
- To start Journal on Inter Disciplinary areas of Electronics, Computers and Other Branches.

***

Department of Electronics and Communication Engineering

1. Name of the Department :**Electronics and Communication Engineering**

2. Year of establishment : **2012**

3. Is the Department part of a School/Faculty of the university?
   Yes. School of Technology, off campus - Bengaluru

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)
   UG: B.Tech (Electronics & Communication 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, if any, with reasons : Nil.

8. Examination System:
   Semester and Choice Based Credit System

9. Participation of the department in the courses offered by other departments

Sl.No.	Course Code	Course title	Offered to
01	EID104	Fundamentals of Digital Logic Circuits	CSE
02	EUREE 304	Electronics - I	EEE
03	EUREE 403	Electronics - II	EEE
04	EUREE 404	Signals and systems	EEE
05	EUREE 502	Linear Integrated Circuits and Applications	EEE
06	EURCS 701	Embedded System	CSE

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	0	0
Associate Professor	2	2	2
Asst. Professor	14	14	14
Others	--	--	--

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

S.No.	Name	Qualification	Designation	Specialization	Years of Experience	Ph.D./ M.Phil.
1.	Dr. Alluri Sreenivas	M.E., Ph.D.	Associate Professor	Satellite Communication	23 Years	4
2.	Dr. Ch. Sumanth Kumar	M.E., Ph.D	Associate Professor	Digital Signal Processing	19 Years	3
3.	Ms. M.Dioline Sara	M.E.	Assistant Professor	Applied Electronics	06 Years	-
4.	Ms.P Kalyani	M.Tech.	Assistant Professor	VLSI system Design	06 Years	-
5.	Mr Venkata Kranthi B	M.Tech.	Assistant Professor	Visual Information processing and Embedded Systems	06Years	-
6.	Mr.Saranga Mohan	M.Tech.	Assistant Professor	Embedded Systems	02 Years	-
7.	Ms.Mallika D	M.Tech.	Assistant Professor	Digital Electronics and Communication Systems	03 Years	-
8.	Ms.Supriya P	M.Tech.	Assistant Professor	VLSI system Design	03 Years	-
9.	Mr.S.Abhimanyu Reddy	M.Tech.	Assistant Professor	VLSI Design and Embedded System	06 Months	-
10.	Mr.Satishkumar Reddy M V	M.Tech.	Assistant Professor	Electronic Systems and Communication	06 Months	-
11.	Mr.Swatik Sahoo	M.Tech.	Assistant Professor	Satellite Communication	03 Years	-
12.	Ms.Shara Mathew	M.Tech.	Assistant Professor	VLSI Design and Embedded Systems	01 Year	-
13.	Mr.Dhengre Nikhil Wamanrao	M.Tech.	Assistant Professor	Communication System	6 Months	-
14.	Mr A.Srnivasulu	M.Tech.	Assistant Professor	Instrumentation and control systems	08 Years	-

15.	Mrs.Sanhita Manna	M.E.	Assistant Professor	Instrumentation and control systems	06 Years	-
16.	Dr. M.Ajay Kumar	Ph.D.	Assistant Professor	Image Processing	01Year	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors
    - Dr. P V Ananda Mohan – C-DAC Bangalore
    - Dr. V P S Naidu - HAL Bangalore

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

14. Programme-wise Student Teacher Ratio 8.9:1

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

	Actual	**Filled**
Support staff (Technical)	03	03

16. Research thrust areas as recognized by major funding agencies:
    - Satellite Communications
    - Image & Signal Processing

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 : Nil.
    - national recognition : Nil.
    - 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: 04 International :25

- 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.) :21
- Citation Index – range / average :Nil.
- SNIP :Nil.
- SJR : Nil.
- Impact Factor: 0.821 - 4.7283
- h-index : 0-1

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
    a) National committees b) International committees c) Editorial Boards d) any other (please specify): 02

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

28. Student projects
    - percentage of students who have done in-house projects including inter-departmental projects - NA
    - percentage of students doing projects in collaboration with other universities /industry / institute: - NA

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

    a. Faculty :Dr A Sreenivas achieved best achiever award by Dr. M.V.V.S. Murthy, Member of Legislative Council, Andhra Pradesh
    b. Doctoral / post doctoral fellows - Nil.
    c. Students - Nil.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sl No	Name of Seminar /Conferences/Workshops	Source of Funding	National/ International	No of Participants
1.	PRERANA-2015 (National Technical Symposium) on 25th March 2015	GITAM University	National	210

31. Code of ethics for research followed by the departments

The department strictly adheres to code of the ethics of the University.

32. Student profile programme-wise: NA

33. Diversity of students : NA

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

35. Student progression :NA

36. Diversity of staff

Percentage of faculty who are	
Graduates of the same University	0%
From other universities within the State	0%
From universities from other States	93.8%
From universities outside the country	6.2%

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:No. of Titles : 108 No. of Volumes: 131
- Internet facilities for staff and students: All the staff and students are provided with internet facility
- Total number of class rooms: 05
- Class rooms with ICT facility:05
- Students' laboratories: 12

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

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

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

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

The following procedure is adopted before introducing any new program:

The departments conduct the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The departments also organize workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?
   - The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and their recommendations are placed before the Board of Studies for consideration.

   - The feedback on teaching-learning methodologies and assessment procedures are obtained from the faculty and discussed in the departmental committee and forwarded to the dean through head of the department for necessary action.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
   - The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the

course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.

- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean will address the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

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

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

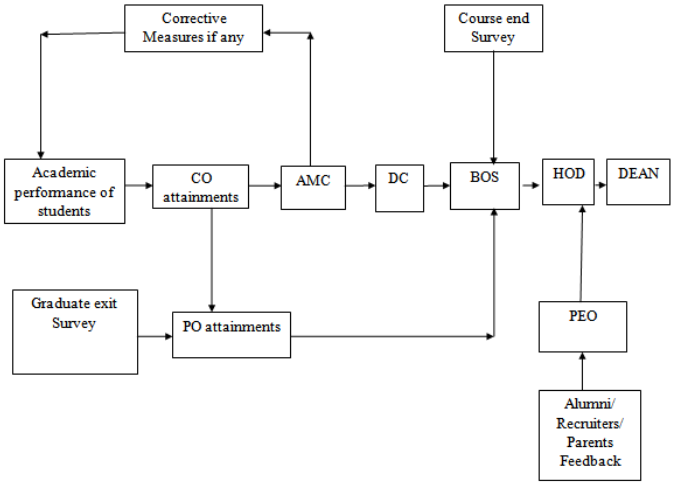
Sl No	Name of the Activity	Date	Guest Speaker	Outcome of the Event
1.	Guest Lecture on "MIXED SIGNAL VLSI DESIGN"	09/02/2016	Dr P. V. Ananda mohan, Technology adviser, CDAC, Bangalore,	All ECE Department students attended and motivated towards the applications of VLSI.

45. List the teaching methods adopted by the faculty for different programmes.
    - Chalk and talk method with the help of ICT
    - Experimental method-field visits
    - Role play method

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

    - The Programme Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
    - The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
    - The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests indicates the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.
    - The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
    - The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in program outcomes by considering the various courses to which each PO is mapped.
    - The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
    - The Head of the Department and the Dean of the Institute overview the proceedings of AMC & DC and confirm that the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the program to the Academic council for its approval.

PEOs MONITORING FLOW CHART



47. Highlight the participation of students and faculty in extension activities.
    - NSS: participated in several activities
    - Cultural clubs: Kalakruthi
    - Social/ Community services: Swatch Bharat
    - Science activity centre: Project expo

48. Give details of "beyond syllabus scholarly activities" of the department. :

    The students actively participate in various seminars, workshops organised within and outside the university. They also involve in various departmental activities of professional bodies, GUSAC etc.

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.

The department has arranged various related and allied industrial visits to the students so that they can actually have a feel of how an industry works and to upgrade their knowledge in the field of relevance.

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

Strengths

- Good academic environment in the department.
- Active involvement of the students in co-curricular activities

Weaknesses

- Non availability of senior faculty

- Inadequate faculty with Ph.D.

Opportunities

- To start innovative programmes suitable for industries in electronic city.
- To create startup culture as the Govt. of Karnataka has got the good eco-system for startups.
- Possibility of more internships due to the availability of core industry.

Challenges

- Capacity building to meet the requirement of proposed electronic cluster at Sri City, boarders of Karnataka.
- To get accredited by the international agencies like ABET.

52. Future plans of the department.

Year	Future plan
2016-17	MOU with core industries and R&D Organizations. Certificate course in VLSI design.
2017-18	M.Tech and Ph.D programmes
2018-19	International Conference on Signal Processing and Communications
2019-20	National conference and Work shop
2020-21	International Conference on Signal Processing and Communications Research center

***

Department of Computer Science and Engineering

1. Name of the Department : **Computer Science and Engineering**

2. Year of establishment : **2012**

3. Is the Department part of a School/Faculty of the university?
   Yes. School of Technology, Off campus – Bengaluru

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)
   UG – B.Tech. (Computer Science and 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, if any, with reasons :Nil

8. Examination System: Semester and Choice Based Credit System

9. Participation of the department in the courses offered by other departments

Sl.No.	Course code	Course title	Offered to
1.	EURCS105&113	Programmeming with C(T & L)	ECE,ME,CE
2.	EURCS504	Data structures and Algorithms	ECE,
3.	EUREC206&213	Object Oriented Programmeming with C++(T&L)	ECE, ME,CE
4.	EUREC604	Computer Architecture & Organization	ECE
5.	EUREC735	Operating Systems	ECE
6.	EUREC822	Advanced Computer Architecture	ECE
7.	EUREC843	Mobile Computing	ECE
8.	EUREC844	Computer Networks	ECE
9.	EUREC852	Database Management system	ECE
10.	EUREC853	Software Engineering	ECE
11.	EUREC855	Software project Management	ECE
12.	EUREC856	Artificial Intelligence	ECE
13.	EUREC8511	Neural Networks	ECE

14.	EUREC854	Systems modelling & Simulation	ECE
15.	EUREC863	Web Technologies	ECE
16.	EURME852	Database Management System	ME
17.	EURME853	Software Engineering	ME
18.	EURME856	Artificial Intelligence	ME
19.	EURME8511	Neural Networks & Fuzzy Logic	ME
20.	EURME8518	Data Structures	ME
21.	EURME862	Operating Systems	ME
22.	EURME863	Web Technologies	ME
23.	EURME8620	Data Mining	ME
24.	EURCE8502	Database management systems	CE
25.	EURCE 8503	Software engineering	CE
26.	EURCE 8505	Software Project management	CE
27.	EURCE 8506	Artificial Intelligence	CE
28.	EURCE 8511	Neural networks	CE
29.	EURCE 8518	Data Structures with C++	CE
30.	EURCE 8524	Computer Organization	CE
31.	EURCE 8602	Operating Systems	CE
32.	EURCE 8603	Web Technology	CE
33.	EURCE 8617	Computer Network	CE
34.	EID101&113	Programmeming with C (T & L)	EE
35.	EID201	Object Oriented programmeming with C++	EE
36.	ECS364	Fundamentals of Data structures	EE
37.	ECS461	Database Management Systems	EE
38.	ECS362	Operating System Concepts	EE
39.	ECS463	Introduction to Computer Networks	EE
40.	ECS464	Introduction to Web Technologies	EE
41.	ECS462	Fundamentals of Software Engineering	EE

42.	EIT463	Management Information Systems & E Commerce	EE

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	2	2	2
Asst. Professor	10	10	10

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

S.No.	**Name**	**Qualification**	**Designation**	**Specialization**	**Years of Experience**	**Ph.D./ M.Phil. s guided**
1	Dr. K. ThamiReddy	Ph.D.	Professor & Head	Data Mining	17 years	8
2	Dr. P. Sanyasi Naidu	Ph.D.	Assoc. Prof.	Data Structures & Information Security	20 years	8
3	Dr. Brahmananda S.H.	Ph.D.	Assoc. Prof.	Computer Science & Engineering	16 years	4
4	Ms.A.Aslesha Lakshmi	M.S.	Asst Prof.	Computer Science & Information security	5yrs &3 months	Nil.
5	Mr. A.N. Sanjeev kumar	M.Tech.	Asst Prof.	Computer Science & Information security	9years&5 months	Nil.
6	Mr Bhukya Ramesh Naik	M.Tech.	Asst Prof.	Computer Science & Information security	2 years (Industrial) + 7 years & 5 months	Nil.
7	Mr.Mohan Gowda V	M.Tech.	Asst. Prof.	Computer Science & Engineering	4 years &2 months	Nil.
8	Mr P Lakshmi ramana	M.Tech.	Asst. Prof.	Computer Science &Information security	3 years 8 months(industrial)+ 2 year & 5 months	Nil.
9	Mr Sangameshwar	M.Tech.	Asst. Prof.	Computer Science & Engineering	5 years &3 months	Nil.
10	Ms Archana S Nadhan	M.Tech.	Asst. Prof.	Computer Science & Engineering	8 years &3 months	Nil.

11	Mr N.Rakesh	M.E.	Asst. Prof.	Computer Science & Engineering	2 year &5 months	Nil.
12	Mr M. Amaresh	M.Tech.	Asst. Prof.	Software Engineering	2 year & 3 months	Nil.
13	Mr Sunil Kumar Sahoo	M.Tech.	Asst. prof	Computer Science & Engineering	6 Years &11 months	Nil.

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors
    - Dr. B. S. S. Srinivas, Centre HR Manager, Hewlett Packard, Bengaluru
    - Sri Srinivas Kandula, Global Head-HR, iGate Patni, Bengaluru
    - Mr.Rama Subramanya Sarma, Manager, Hewlett Packard, Bengaluru

13. Percentage of classes taken by temporary faculty – programme-wise information :Nil.
14. Programme-wise Student Teacher Ratio: 5:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Actual	**Filled**
Support staff (Technical)	03	03

16. Research thrust areas as recognized by major funding agencies
    - Data Mining
    - Artificial Intelligence

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 : NA
    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 :Nil.
    - national recognition :Nil.
    - 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 : 18 International : 33
- 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 / aver average - Nil
- SNIP - Nil
- SJR - Nil
- Impact Factor – range / average –1
- h-index – 0 -1

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

- Dr.Brahmananda S H NITK, Surathkal, Network Labs
- Mrs. Aslesha Lakshmi. NIT, Warangal, Data mining Lab
- Mr. Sanjeev kumar A N & P. Lakshmi Ramana, Ramyam Intelligence Lab.
- Amaresh M, IIsc., Banagalore

26. Faculty serving in

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

- Dr.Brahmananda S H, Life Member of ISTE
- Aslesha Lakshmi. Student Branch Co-ordinator CSI.

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

S.No.	Recharging programme	Number of faculty
1	Refresher/ orientation programmes	3
2	Training Programmes / FDP / Short Term Course	2
3	National & International Conferences / Seminars	5
4	Workshops	3
5	Management Development Programme	1

28. Student projects

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

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 / international) with details of outstanding participants, if any.

Sl No	Name of Seminar /Conferences/Workshops	Source of Funding	National/ International	No of Participants
1.	PRERANA-2015 (National Technical Symposium) on 25th March 2015	GITAM University	National	450

31. Code of ethics for research followed by the departments

The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students : NA

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

35. Student progression : NA

36. Diversity of staff

Percentage of faculty who are	
Graduates of the same University	0%
From other universities within the State	27%
From universities from other States	64%
From universities outside the country	9%

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 : Books: No. of Titles: 126, No. of Volumes: 131

- Internet facilities for staff and students: All the staff and students are provided with internet Facility
- Total number of class rooms :04
- Class rooms with ICT facility : 04
- Students' laboratories : 3

39. List of doctoral, post-doctoral students and Research Associates
    a) from the host institution/university :NA
    b) from other institutions/universities :NA

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

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

    The following procedure is adopted before introducing any new programme:
    - The department conduct the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.
    - The departments also organize workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.
    - After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?
        - The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and their recommendations are placed before the Board of Studies for consideration.
        - The feedback on teaching-learning methodologies and assessment procedures are obtained from the faculty and discussed in the departmental committee and forwarded to the dean through head of the department for necessary action.

    b. Students on staff, curriculum and teaching-learning-evaluation and

how does the department utilize the feedback?

- The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean will address the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the the Board of Studies which deliberates and recommendes for implementation in their yearly meetings.

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

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

Sl.No	Event Name	Guest/Expert Member
1	Prerana 2015	Prof. A RaghuNandan
2	Seminar on Innovation	Dr. Shyam Vasudeva Rao, MD, Forus Health Pvt.Ltd.
3	Ethical Hacking workshop	Mr. Sai Sathish CEO INDIAN SERVERS
4	National seminar on Super computing & dizitalization technique	Dr. C S Rao
5	Big Data & Data Analytics	Mr. M V Balasubramanyam, CEO Ramyam Intelligence LAB

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

a) Lecture Method
    a. Class Room Teaching
    b. PPT Teaching
b) Interactive Method
c) Technical Seminars
d) Assignments
e) Experimental Method
    a. Laboratory Learning
    b. Hands on Training for Tool Demonstration
f) Experiential Learning
g) Industrial visits

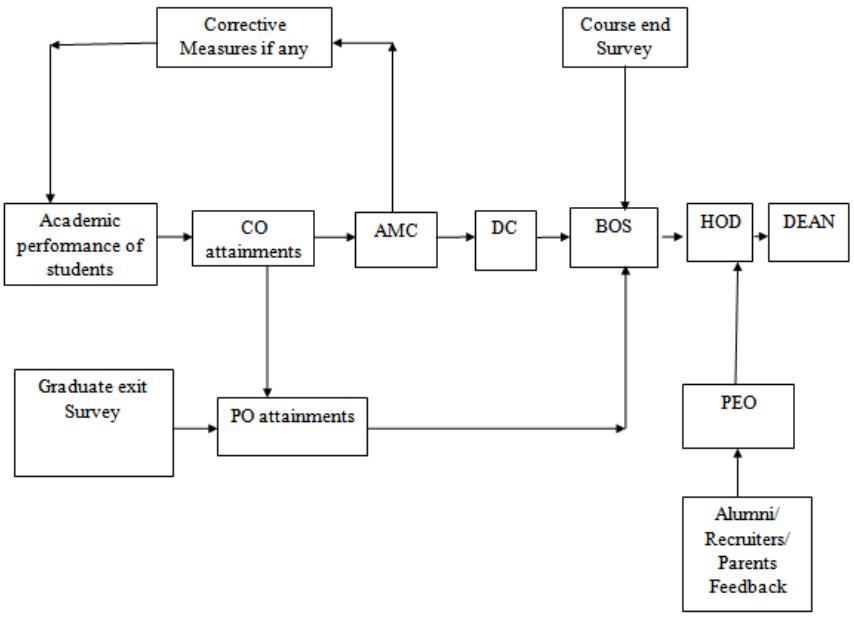
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- The Program Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Program Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
- The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
- The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests will indicate the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is

reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.

- The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
- The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in programme outcomes by considering the various courses to which each PO is mapped.
- The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
- The Head of the Department and Dean of the Institute overview the proceedings of AMC & DC and confirm the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the program to the Academic council for its approval.

PEOs MONITORING FLOW CHART



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

➢ Certificate courses/projects/internships/training programmes

- Networ'KING' competition by LIVEWIRE Pvt Ltd Software company, Bengaluru on 01-Aug-2015 for 2nd,3rd and 4th Year students.
- 3 students (Suri Achyuth, Srikanth Reddy and Chaitanya) from Third Year developed website for IMTMA Company, Bangalore from May 2014 to Nov 2014.
- Two students from Second Year attended internship on "Cloud Computing" organized by IIT Bombay in year 2014-15.

- Paper presentations, debates, Group Discussions and Quizzes in Technical Fest attended

  - Second Year Student presented a paper on “Image Processing” Organized by NIT Warangal.
  - 12 Students have presented paper presentations on “PRERANA” Tech Fest 2015.
  - 42 Students have participated in Technical Quiz on “PRERANA” Tech Fest 2015.
- NSS/ Social responsibility activities/ Memberships of societies

  - Students of NSS had organized Swatch Bharat Abhiyan at Doddaballapur.
  - NSS had organized blood donation camp on 14-Mar-2015.
  - NSS Activity on 12/08/2015 (11 students from cse dept)

- Certificates or prizes won in intra-mural and inter collegiate competitions

  - Students had attended K L University National Sports Fest from 19-21 Jan 2015.
  - Students had attended 6thInter Collegiate GITAM University Sport Fest from 12-16 Mar 2015.
  - Students had attended Nitte Meenakshi Institute Of Technology Sports event on 5th Feb 2015.
- Celebrations on special occasions.

  - Students of III year won the finals of Football game on 29 – AUG-2015
  - Sai Arun (III year) won the final of shuttles on 29 – AUG-2015
  - CSE students are the runners up in Volley ball Game on 29 – AUG-2015
  - Students of second year had organized science exhibition on the Engineers Day.
    - Opening of NSS Unit on 03-Nov-2014.

- A one week Personality Development Programme is conducted by Universal Education, Bengaluru from 15-20 Dec 2015.
- A Two days Tech fest on 13/08/15 and 14/08/15 (No of participants include 2nd ,3rd and 4th : 32)
- Our students are actively participating in NSS programmes organized by GITAM NSS Cell, like “Swatch Bharath Abhiyan”, Blood Donation Camp, Eye CheckUp, Awareness Programmes about Diabetics, AIDS etc.

48. Give details of “beyond syllabus scholarly activities” of the department.

- Second Year Student presented a paper on “ Image Processing” Organized by NIT Warangal.
- 12 Students have presented paper presentations on “PRERANA” Tech Fest 2015.

- 42 Students have participated Technical Quiz on "PRERANA" Tech Fest 2015.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. :
The department is committed to contribute in generating new knowledge through presentation of papers in conferences, publications, new teaching methodologies.

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

Strengths:

- Good academic environment in the department.
- Active involvement of the students in co-curricular activities.

Weaknesses:

- Need to improve Research
- Need to strengthen Consultancy
- Lack of Senior faculty.

Opportunities:

- To collaborate with software Industry
- To initiate an innovative programs in Big Data and security.

Challenges/Threats:

- To compete with other universities.
- To get accredited by the international agencies like ABET.

52. Future plans of the department.

- Certificate programmes –CISCO networking Centre -2017
- To start PG programmes in the specializations of Big Data analytics and Ethical Hacking and Network Security

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BENGALURU SCHOOL OF MANAGEMENT STUDIES

Department of Management Studies

1. Name of the Department: **Management Studies**

2. Year of establishment : **2012**

3. Is the Department part of a School/Faculty of the university?
   Yes, School of Management Studies, GITAM

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :
   MBA and Ph.D

5. Interdisciplinary programmes and departments involved : BEC

6. Courses in collaboration with other universities, industries, foreign institutions, etc. :
   - ✓ BEC (British English certificate)

7. Details of programmes discontinued, if any, with reasons: Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System :
   Trimester, Choice Based Credit System

9. Participation of the department in the courses offered by other departments :
   ECE & CSE – Yes (Managerial Economics and Management)

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

	Sanctioned	**Filled**	**Actual (including CAS & MPS)**
Professor	1	1	
Associate Professor	1		
Asst. Professor	2	1	
Others			

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

S.No.	Name	Qualification	Designation	Specialization	Years of Experience	Ph.D./ M.Phil. students guided
1.	Dr.M.V.Rama Prasad	B.Tech., M.B.A	Director	Marketing	26	7
2.	Dr.P.Anitha Kumari	M.B.A	Assistant Professor	Human Resource Management	5	Nil

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

S.No.	Name	Designation	Institute/Organization
1	Dr.Shaji Thomas	Professor	ABMTR
2	Mr. S.Muralidhar	Professor	BNMIT
3	Mr.Sanjay Shukla	Director	Mulessons
4	Mr.Ranjit Singh J.D	Senior Manager	Management Consultant
5	Mr.Subrahmanyan.SV	CEO	Management Consultant

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

S.No	Name of Faculty	No. of classes	Percentage of classes
1	Mr.Sankar Mukherjee	32	10%

14. Programme-wise Student Teacher Ratio: 17:1

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Support staff		-	
Administrative Staff	4	4	

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

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 : Nil
    - state recognition :Nil.
    - national recognition :Nil.
    - 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) :10
    - 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 :0
    - 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 : Nil
    a) National committees b) International committees
    c) Editorial Boards d) any other (please specify)

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

28. Student projects
    - percentage of students who have done in-house projects including inter-departmental projects :NA
    - percentage of students doing projects in collaboration with other universities /industry / institute : NA

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

- Faculty :Nil.
- 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:
The Departments strictly adhere to the code of ethics for research of the University.

32. Student profile programme-wise: NA

33. Diversity of students : NA

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	N/A
PG to M.Phil	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed Campus selection Other than campus recruitment	80% 70% 10%
Entrepreneurs	10%

36. Diversity of staff

Percentage of faculty who are	
Graduates of the same University	Nil
From other universities within the State	100%
From universities from other States	Nil
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
- Library : Department Library
- Internet facilities for staff and students : Wi-Fi in classrooms
- Total number of class rooms : 05
- Class rooms with ICT facility : 03

- Students' laboratories : Nil
- Research laboratories : Nil.

39. List of doctoral, post-doctoral students and Research Associates
    a) from the host institution/university : 03
    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. :

The following procedure is adopted before introducing any new program:

The departments conduct the need analysis for the proposed new program before introducing. The need analysis comprises demand for the program, employment opportunities, relevance to the local needs. The feedback on these issues is collected from all the stakeholders' viz. alumni, senior students, recruiters, parents and enterprise.

The departments also organize workshops and brain storming sessions by involving academicians, experts from industry and research organizations to identify the exact title and the feasibility of offering the proposed program.

After considering the recommendations, the Board of Studies discusses the proposed program in detail including the expertise available and forwards their recommendations to the university with the proposed budget requirements for approval.

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?
        - The feedback on curriculum obtained from the staff handling various courses and their suggestions are placed before departmental committee for consideration and appropriate action and their recommendations are placed before the Board of Studies for consideration.
        - The feedback on teaching-learning methodologies and assessment procedures are obtained from the faculty and discussed in the departmental committee and forwarded to the dean through head of the department for necessary action.

    b. Students on staff, curriculum and teaching-learning-evaluation and

how does the department utilize the feedback?

- The feedback from students on faculty is obtained through online system twice in a semester – the first one after a month of commencement of course and the second one at the end of the course. The feedback is analysed by the head of the department and it is handed over to concerned teacher along with suggestions for any rectification in teaching process if required.
- The feedback on curriculum is obtained from the graduating students and their suggestions are placed before the Board of Studies for appropriate action.
- The students are requested to give their feedback on the methodology adopted by the teacher in teaching –learning and evaluation process. The feedback is analysed by the departmental committee chaired by the head and is forwarded to respective teachers for appropriate action. The feedback analysis is also available with the dean and, based on necessity, the dean will address the faculty and appropriate measures are taken for improvement of teaching learning process.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- The alumni association of the department conducts meetings frequently. During these meetings the alumni are requested to give their valuable suggestions and recommendations on the curriculum of the program keeping in view the latest industrial practices and technology developments. These suggestions are consolidated by the head of the department and placed before the Board of Studies for its consideration.
- One of the external members of the Board of Studies is from industry who takes part in design and development of the curriculum and contributes from the point of view of skills required for latest industrial technologies. Apart from this, industrial personnel suggestions on curriculum from recruiters, and collaborating industry experts are obtained. These recommendations are placed before the Board of Studies which deliberates and recommends for implementation in their yearly meetings.

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

S. No	Name of the Alumni	Organization
1	Ravi Teja . E	BPL
2	Amulya .R	Arteria Technologies

3	Thejo Krishna.P	ANZ
4	Mahindra Naidu Pothuri	Mahindra Finance
5	Ananya .P	Mahindra Finance
6	Naga Pavan.B	Cirrologix
7	Chaitanya.M.V.K	Global Edge Software
8	Sandeep Sharma.R	Cafe Coffee Day
9	Sreekanth.K	Global Data
10	Srinivasulu Reddy.B	Jet Air Ways

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

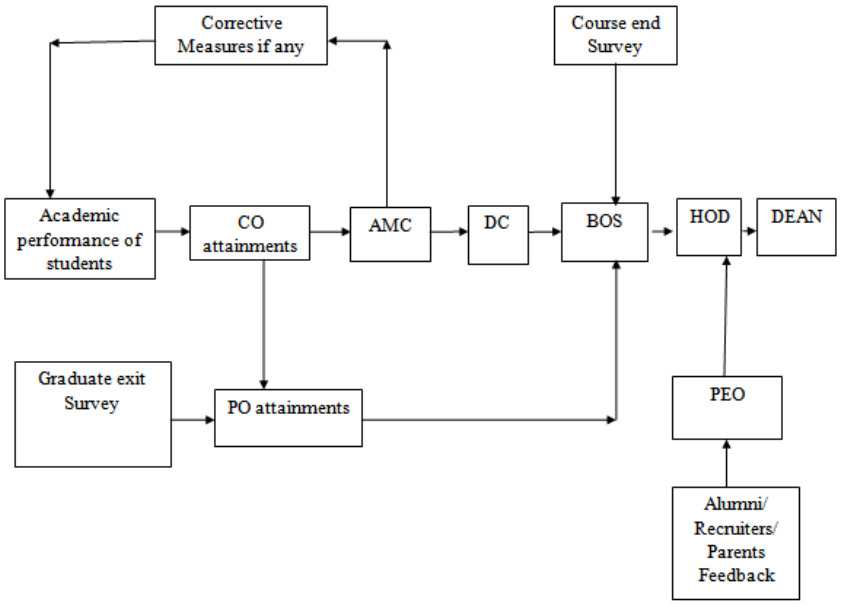
45. List the teaching methods adopted by the faculty for different programmes.:
    - Case method
    - Role play
    - Presentations

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

    - The Program Educational Objectives (PEOs) are aligned with the vision & mission statements of the department. The Programme Outcomes (POs) are evolved from the graduate attributes and outcomes of each course of the program.
    - The teacher of the course prepares the lesson plan well in advance and aligns this to meet the Course Outcomes (COs). The lesson plan is circulated to all the students concerned.
    - The teacher conducts class tests / assignments / quizzes in his class throughout the semester which are focused to match the course outcomes. The performance of the students in these tests will indicate the outcome of the course. The Academic Monitoring Committee (AMC) constituting of all class teachers, counsellors along with student representatives reviews the academic activities of the class every fortnight. Based on the inputs from the AMC meetings, the course coverage and performance of students in all courses is reviewed and required suggestions are given to the concerned to orient them to the requirements of course outcomes.
    - The Department Committee (DC) not only considers the student performance in the tests for attainment of COs and POs, but also adopts indirect approach by taking feedback survey from students at the end of the course on COs and at the end of program on POs. The survey results are used to quantify the attainments of COs and POs.
    - The performance of students in course outcomes lead to the evaluation of performance of students in programme outcomes. The Board of Studies (BoS) monitors the performance of students in programme outcomes by considering the various courses to which each PO is mapped.
    - The BoS also gets the inputs on COs and POs from AMC and DC on various courses in the semester. It reviews this feedback and suggests for changes in the syllabus/ scheme of the course to reach the expected outcomes.
    - The Head of the Department and the Dean of the Institute overview the

proceedings of AMC & DC and confirm the POs are properly mapped with PEOs. The Dean frequently reviews the feedback received from teachers/ alumni/ recruiters/ parents/ external experts on PEOs and suggests changes in the scheme of the program to the Academic council for its approval.

PEOs MONITORING FLOW CHART



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

- Organized Helping hands for the house keeping staff.
- Took classes in Government school.
- Formed CSR Club – helping orphanage childrens.

48. Give details of "beyond syllabus scholarly activities" of the department.

- Practical industry based assignments are given.
- Sector wise industry reports.

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. :

- Introduced Corporate hierarchy structure for the students.
- Conducting Wisdomania club,
- Conducting Employment enhancing programmes.

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

Strengths

- More focussed curriculum
- Good networking with Industry

- Learned faculty

Weaknesses

- Mediocricity of the students
- Lack of good diversity students

Opportunities

- To offer indudtry need based Academic Programmes
- Start up culture is an opportunity to develop entrepreneurship in the students
- International Students Exchange

Challenges

- Fast changing Corporate needs,
- Varying demands from stake holders

52. Future plans of the department. :

- To Introduce operations specialization by 2016.
- To Introduce business analytics in 2017-18
- To Change the pedagogy to case base learning, Industry oriented learning.

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GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)

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