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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A University Committed to Excellence
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Evaluative Reports of the Departments

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<td>11</td>
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<tr>
<td>3. Engineering Physics</td>
<td>21</td>
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<td>4. Engineering Chemistry</td>
<td>31</td>
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<td>5. Civil Engineering</td>
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<td>6. Mechanical Engineering</td>
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<td>9. Computer Science and Engineering</td>
<td>83</td>
</tr>
<tr>
<td>10. Management Studies</td>
<td>95</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Course code</th>
<th>Course title</th>
<th>Offered to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>EUREC 413</td>
<td>Advanced Communication Skills &amp; Language Laboratory</td>
<td>ECE, CSE, EEE, MECH.</td>
</tr>
<tr>
<td>2.</td>
<td>EUREC 513</td>
<td>Personality Development</td>
<td>ECE, CSE, EEE, MECH.</td>
</tr>
</tbody>
</table>
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>Nil</td>
<td>Nil</td>
<td>-</td>
</tr>
<tr>
<td>Associate Prof</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Assistant Prof</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Faculty</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ms Jasmine</td>
<td>Adjunct Faculty</td>
<td>French Grade Alliance Francais Chennai</td>
</tr>
</tbody>
</table>

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
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:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the Faculty</th>
<th>Project Title</th>
<th>Funding Agency</th>
<th>Grants in Lakhs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ms I. Madhavi</td>
<td>Use of Technology for Acquisition of Communication skills</td>
<td>UGC</td>
<td>1.3</td>
</tr>
</tbody>
</table>

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
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.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
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<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>20</td>
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<tr>
<td>2</td>
<td>Training Programmes</td>
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<tr>
<td>3</td>
<td>Workshops</td>
<td>18</td>
</tr>
<tr>
<td>4</td>
<td>Management Development Programme</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>Others</td>
<td>9</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Percentage of faculty who are:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same university</td>
<td>Nil.</td>
</tr>
<tr>
<td>From other universities within the state</td>
<td>Nil.</td>
</tr>
<tr>
<td>From universities from other states</td>
<td>100</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>Nil.</td>
</tr>
</tbody>
</table>

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 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 organize workshops and brainstorming 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
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.
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.

***

10
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 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 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 Under Semester Pattern**

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

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Course code</th>
<th>Course title</th>
<th>Offered to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>EMA101</td>
<td>ENGG.MATHEMATICS-1</td>
<td>COMMON TO ALL BRANCHES</td>
</tr>
<tr>
<td>2.</td>
<td>EMA102</td>
<td>ENGG.MATHEMATICS-2</td>
<td>COMMON TO ALL BRANCHES</td>
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<tr>
<td>3.</td>
<td>EMA103</td>
<td>ENGG.MATHEMATICS-3</td>
<td>COMMON TO ALL BRANCHES</td>
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<td>4.</td>
<td>EMA104</td>
<td>ENGG.MATHEMATICS-4</td>
<td>COMMON TO ALL BRANCHES</td>
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<tr>
<td>5.</td>
<td>EURCE406</td>
<td>HIGHER ENGG.MATHEMATICS-3</td>
<td>CIVIL</td>
</tr>
<tr>
<td>6.</td>
<td>EURME401</td>
<td>NUMERICAL METHODS IN ENGG.</td>
<td>MECHANICAL</td>
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<tr>
<td>7.</td>
<td>EMA203</td>
<td>PROBABILITY AND STATISTICS</td>
<td>CSE</td>
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<tr>
<td>8.</td>
<td>MBA105</td>
<td>BUSINESS MATHEMATICS</td>
<td>MBA</td>
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</table>
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Assistant Professors/others)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Associate Prof</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Assistant Prof</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

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

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

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 :

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support staff (technical)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Administrative staff</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Details</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Conferences</td>
<td>:5</td>
</tr>
<tr>
<td>International Conferences</td>
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<tr>
<td>National Journals</td>
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<td>International Journals</td>
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<td>Monographs</td>
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<td>Chapters in Books</td>
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<td>Edited Books</td>
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<td>Number listed in International Database</td>
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<td>Citation Index - Range/Average</td>
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<td>Impact Factor - range/average</td>
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</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>S.No</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Training Programmes</td>
<td>02</td>
</tr>
<tr>
<td>3</td>
<td>Workshops</td>
<td>06</td>
</tr>
<tr>
<td>4</td>
<td>Management Development Programme</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>Others</td>
<td>16</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
<td>Nil.</td>
</tr>
<tr>
<td>From other universities within the State</td>
<td>Nil.</td>
</tr>
<tr>
<td>From universities from other States</td>
<td>100%</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>Nil.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Date</th>
<th>Event</th>
<th>Guest</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22/12/2015</td>
<td>Seminar</td>
<td>Dr. Sreedevi Jade</td>
<td>Mathematical Modelling and Computer Simulation</td>
</tr>
<tr>
<td>2</td>
<td>22/12/2015</td>
<td>Seminar</td>
<td>Dr. Padi Tirupathi Rao</td>
<td>Mathematical Modelling and Computer Simulation</td>
</tr>
</tbody>
</table>

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.
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.
- 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.
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
   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

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Course code</th>
<th>Course title</th>
<th>Offered to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>EPH 101</td>
<td>Engineering Physics-I in I\textsuperscript{st} semester</td>
<td>EEE, CSE, MECH, ECE, CIVIL</td>
</tr>
<tr>
<td>2.</td>
<td>EPH 102</td>
<td>Material Science (Elective)</td>
<td>EEE, CSE, MECH, ECE, CIVIL</td>
</tr>
<tr>
<td>3.</td>
<td>EPH 104</td>
<td>Solid State Physics (Elective)</td>
<td>EEE, CSE, MECH, ECE, CIVIL</td>
</tr>
<tr>
<td>4.</td>
<td>EPH 106</td>
<td>Physics of Nano materials (Elective)</td>
<td>EEE, CSE, MECH, ECE, CIVIL</td>
</tr>
<tr>
<td>5.</td>
<td>EPH 121</td>
<td>Engineering Physics Laboratory</td>
<td>EEE, CSE, MECH, ECE, CIVIL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Asst. Professor</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance. List of senior Visiting Fellows, adjunct faculty, emeritus professors.

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

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 –

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support staff (technical)</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Administrative staff</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

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.
   - 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 Faculty): 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. Srinivas is an Editor-in-chief for the Journal, “American Journal of Superconductor and Applications” a science publishing group journal.
  ➢ Dr. K. Srinivas is an Editor/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.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Training Programmes</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Workshops</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Management Development Programme</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
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<th>Percentage of faculty who are:</th>
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</thead>
<tbody>
<tr>
<td>Graduates of the same university</td>
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<td>From universities from other states</td>
<td>4</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>01</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the candidate</th>
<th>Year of Award / Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>T.Klayan Prasad</td>
<td>In progress</td>
</tr>
<tr>
<td>2.</td>
<td>Ch.Ratnaiah</td>
<td>In Progress</td>
</tr>
</tbody>
</table>

   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:

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

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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.
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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.

***
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

   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

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Course code</th>
<th>Course title</th>
<th>Offered to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ECY101</td>
<td>Engineering Chemistry</td>
<td>B.Tech (Civil, Mech, EEE, ECE, CSE)</td>
</tr>
<tr>
<td>2.</td>
<td>ECY121</td>
<td>Engineering Chemistry Laboratory</td>
<td>B.Tech (Civil, Mech, EEE, ECE, CSE)</td>
</tr>
<tr>
<td>3.</td>
<td>ECY102</td>
<td>Chemical Aspects of Engineering Materials</td>
<td>B.Tech (Civil, Mech, EEE, ECE, CSE)</td>
</tr>
<tr>
<td>4.</td>
<td>ECY104</td>
<td>Advanced Engineering Chemistry</td>
<td>B.Tech (Civil, Mech, EEE, ECE, CSE)</td>
</tr>
<tr>
<td>5.</td>
<td>ECY106</td>
<td>Chemistry of Advanced Materials</td>
<td>B.Tech (Civil, Mech, EEE, ECE, CSE)</td>
</tr>
<tr>
<td>6.</td>
<td>EHS201</td>
<td>Environmental Studies</td>
<td>B.Tech (Civil, Mech, EEE, ECE, CSE)</td>
</tr>
<tr>
<td>7.</td>
<td>EURCS8510</td>
<td>Engineering Materials</td>
<td>B.Tech (CSE)</td>
</tr>
</tbody>
</table>
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Prof.</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asst. Prof.</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Type of staff</th>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic support staff</td>
<td>Mr. Ramakrishna</td>
<td>Laboratory Assistant</td>
<td>B.Sc.,</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Faculty</th>
<th>Project title</th>
<th>Details of the funding agency</th>
<th>Grants received (Rs. in lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. R. Jayakumar</td>
<td>Evaluation of Biochemical responses to Environmental contaminants as biomarkers in the fishes of Andhra Coast</td>
<td>DST</td>
<td>26.01</td>
</tr>
<tr>
<td>2</td>
<td>Dr. R. Jayakumar</td>
<td>Assessment of e-waste toxicity on the Earthworm species (Eisenia fetida).</td>
<td>UGC MRP</td>
<td>1.07</td>
</tr>
</tbody>
</table>

a.) International Projects: Nil.
b.) Completed Projects: Nil
c.) Total grants received: 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: 14
- Monographs : 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.
- 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.


25. Faculty selected nationally / internationally to visit other laboratories / institutions

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the Faculty</th>
<th>Laboratories / institutions/ Industries in India and abroad</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Jayakumar</td>
<td>i) Ecotoxicology Laboratory, Salim Ali Centre for Ornithology and Natural History, MOEF, Coimbatore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii) Genotoxicity Laboratory, Anna University, Tiruchirapalli</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name</th>
<th>National Committees / International Committees /Editorial Boards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Ramakrishna Rao</td>
<td>i) Editorial Board Member, International Journal of Chemical Synthesis and Chemical Reactions</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>Training Programmes</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Workshops</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>Management Development Programme</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>Others</td>
<td>-</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Percentage of faculty who are:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same university</td>
<td>0</td>
</tr>
<tr>
<td>From other universities within the state</td>
<td>29%</td>
</tr>
<tr>
<td>From universities from other states</td>
<td>71%</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name of the candidate</th>
<th>Year of Award / Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Vijaya Hemmadi-JRF</td>
<td>2015-18</td>
</tr>
</tbody>
</table>

   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 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 brainstorming 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 actual (Professors/Associate Professors/Assistant Professors/others)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

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

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

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

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:

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support staff (technical)</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Administrative staff</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>National Committees</th>
<th>International committees</th>
<th>Editorial Boards</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>S.No</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Training Programmes</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Workshops</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Management Development Programme</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Others</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name of the Faculty</th>
<th>Awards / Honors / Recognitions</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Name of the student</th>
<th>Details of Achievement</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.Punith</td>
<td>Project expo on Tokyo gate bridge (ZEPHYR)</td>
<td>30/12/2015</td>
</tr>
<tr>
<td>Name</td>
<td>Event Description</td>
<td>Date</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Giridhar Mogili</td>
<td>Skits in Kalakruthi and Aarush2K 15</td>
<td>14/08/15</td>
</tr>
<tr>
<td></td>
<td>Model on Tokyo gate bridge</td>
<td>15/09/15</td>
</tr>
<tr>
<td></td>
<td>Workshops attended in Chennai</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Civil Engineering Applications&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>27/05/2015 to 29/05/2015</td>
<td></td>
</tr>
<tr>
<td>Khyathi S.R.</td>
<td>Workshops attended in Chennai</td>
<td>27/05/2015</td>
</tr>
<tr>
<td></td>
<td>&quot;Civil Engineering Applications&quot;</td>
<td>29/05/2015</td>
</tr>
<tr>
<td></td>
<td>Model on Tokyo gate bridge</td>
<td>15/09/15</td>
</tr>
<tr>
<td>Kiran balija setty</td>
<td>Workshop attended in Chennai Civil Engineering Applications</td>
<td>27/05/2015</td>
</tr>
<tr>
<td></td>
<td>Model on Tokyo gate bridge</td>
<td>15/09/15</td>
</tr>
<tr>
<td></td>
<td>Participated in Aarush 2K15</td>
<td>14/08/15</td>
</tr>
<tr>
<td></td>
<td>Workshops attended in Chennai</td>
<td>27/05/2015</td>
</tr>
<tr>
<td></td>
<td>&quot;Civil Engineering Applications&quot;</td>
<td>29/05/2015</td>
</tr>
<tr>
<td>Vamseekrishna Ganjikunta</td>
<td>Skits in Kalakruthi and Aarush2K 15</td>
<td>14/08/15</td>
</tr>
<tr>
<td></td>
<td>Model on Tokyo gate bridge</td>
<td>15/09/15</td>
</tr>
<tr>
<td>Vivek Kancharla</td>
<td>Participated in Aarush2K 15</td>
<td>14/08/15</td>
</tr>
<tr>
<td></td>
<td>Presentation on Kethipara</td>
<td>30/12/2015</td>
</tr>
<tr>
<td></td>
<td>Skits in Kalakruthi and Aarush2K 15</td>
<td>14/08/15</td>
</tr>
<tr>
<td></td>
<td>Model on Tokyo gate bridge</td>
<td>15/09/15</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Seminars/Conference/Workshops</th>
<th>Funding Agencies</th>
<th>No of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>National Symposium-PRERANA-2K15</td>
<td>GST, Bengaluru Campus</td>
<td>51</td>
</tr>
<tr>
<td>2</td>
<td>Technical Seminar by Dr. V Ramachandra</td>
<td>GST, Bengaluru Campus</td>
<td>51</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
</tr>
<tr>
<td>From other universities within the State</td>
</tr>
<tr>
<td>From universities from other States</td>
</tr>
<tr>
<td>From universities outside the country</td>
</tr>
</tbody>
</table>

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

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

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.

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

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.
• 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

<table>
<thead>
<tr>
<th>S.No</th>
<th>Course title</th>
<th>Offered to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engineering Mechanics</td>
<td>Civil</td>
</tr>
<tr>
<td>2</td>
<td>Engineering Drawing</td>
<td>Civil, ECE, CSE</td>
</tr>
<tr>
<td>3</td>
<td>Operation Research</td>
<td>MBA</td>
</tr>
<tr>
<td>4</td>
<td>Operation Management</td>
<td>MBA</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asst. Professor</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
</tbody>
</table>
11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

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

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

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Actual</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Assistant</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Lab Technician</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

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).
<table>
<thead>
<tr>
<th>S.No</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Training Programmes</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Workshops</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Management Development Programme</td>
<td>11</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Seminars/Conference/Workshops</th>
<th>Funding Agencies</th>
<th>No of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>National Technical symposium – Prerana 2015</td>
<td>GITAM university</td>
<td>50</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
</tr>
<tr>
<td>From other universities within the State</td>
</tr>
<tr>
<td>From universities from other States</td>
</tr>
<tr>
<td>From universities outside the country</td>
</tr>
</tbody>
</table>
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?
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 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.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the Expert</th>
<th>Title of the Lecture</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sri S V V Satyanarayana Senior Aerospace Engineer Head of Training Atkins Aerospace India &amp; Ravi kumar National Manager – Technical Training EDS Technologies Pvt. Ltd.</td>
<td>Overview of Aerospace, civil and Automotive Industry Trends Cad, Cae, Information technology perspective</td>
<td>04/07/2015</td>
</tr>
<tr>
<td>2</td>
<td>Mr. Linga Bhat AGM L&amp;T Construction Equipment</td>
<td>Inauguration of programme &amp; training on courses CATIA &amp; Auto CAD</td>
<td>13/07/2015</td>
</tr>
<tr>
<td>3</td>
<td>K P Murthy SAE Inauguration</td>
<td>SUPRA SAE India</td>
<td>23/07/2015</td>
</tr>
<tr>
<td>4</td>
<td>Mr. Purushotham S Joshi</td>
<td>Vehicular sketching to final production and testing</td>
<td>08/08/2015</td>
</tr>
<tr>
<td>5</td>
<td>Expert Team Dassault System</td>
<td>Dassault systems technologies and industry connect</td>
<td>20/08/2015</td>
</tr>
</tbody>
</table>

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 meet 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](image-url)
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

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Faculty</th>
<th>Designation</th>
<th>Qualification</th>
<th>Specialization</th>
<th>Years of Experience</th>
<th>Ph.D/ M.Phil guided</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr.G.V.Nagesh Kumar</td>
<td>Professor</td>
<td>M.E.,Ph.D.</td>
<td>Control Systems</td>
<td>14</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>A.Nagaraju</td>
<td>Asst.Professor</td>
<td>M.Tech.</td>
<td>Power Electronics</td>
<td>06</td>
<td>Nil</td>
</tr>
<tr>
<td>4</td>
<td>S.V.Phanidhar</td>
<td>Asst.Professor</td>
<td>M.Tech.</td>
<td>Power Apparatus &amp; Systems</td>
<td>10</td>
<td>Nil</td>
</tr>
<tr>
<td>5</td>
<td>Ravindranadh Chowdary Vankina</td>
<td>Asst.Professor</td>
<td>M.Tech.</td>
<td>Power and Energy Systems</td>
<td>02</td>
<td>Nil</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Support staff (Technical)</th>
<th>Actual</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>01</td>
<td>01</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Development programmes</td>
<td>07</td>
</tr>
<tr>
<td>Refresher/Orientation Programmes</td>
<td>01</td>
</tr>
<tr>
<td>Training Programmes</td>
<td>01</td>
</tr>
<tr>
<td>Workshops</td>
<td>05</td>
</tr>
<tr>
<td>Management Development Programme</td>
<td>01</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
<td>20%</td>
</tr>
<tr>
<td>From other universities within the State</td>
<td>Nil</td>
</tr>
<tr>
<td>From universities from other States</td>
<td>80%</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>Nil</td>
</tr>
</tbody>
</table>

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.:

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

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.

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

- Students of NSS and SARPANCH of Doddaballapur 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
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 upgradation 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

   **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

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

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

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Asst. Professor</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Others</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>
11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

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

<table>
<thead>
<tr>
<th>Support staff (Technical)</th>
<th>Actual</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03</td>
<td>03</td>
</tr>
</tbody>
</table>

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.
• 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.


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.

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

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

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
<td>0%</td>
</tr>
<tr>
<td>From other universities within the State</td>
<td>0%</td>
</tr>
<tr>
<td>From universities from other States</td>
<td>93.8%</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>6.2%</td>
</tr>
</tbody>
</table>

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


   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
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.

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of the Activity</th>
<th>Date</th>
<th>Guest Speaker</th>
<th>Outcome of the Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Guest Lecture on “MIXED SIGNAL VLSI DESIGN”</td>
<td>09/02/2016</td>
<td>Dr P. V. Ananda mohan, Technology adviser, CDAC, Bangalore,</td>
<td>All ECE Department students attended and motivated towards the applications of VLSI.</td>
</tr>
</tbody>
</table>
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.
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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Future plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-17</td>
<td>MOU with core industries and R&amp;D Organizations. Certificate course in VLSI design.</td>
</tr>
<tr>
<td>2017-18</td>
<td>M.Tech and Ph.D programmes</td>
</tr>
<tr>
<td>2018-19</td>
<td>International Conference on Signal Processing and Communications</td>
</tr>
<tr>
<td>2019-20</td>
<td>National conference and Workshop</td>
</tr>
<tr>
<td>2020-21</td>
<td>International Conference on Signal Processing and Communications Research center</td>
</tr>
</tbody>
</table>

***
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

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Course code</th>
<th>Course title</th>
<th>Offered to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>EURCS105&amp;113</td>
<td>Programming with C(T &amp; L)</td>
<td>ECE, ME, CE</td>
</tr>
<tr>
<td>2.</td>
<td>EURCS504</td>
<td>Data structures and Algorithms</td>
<td>ECE,</td>
</tr>
<tr>
<td>3.</td>
<td>EUREC206&amp;213</td>
<td>Object Oriented Programming with C++(T&amp;L)</td>
<td>ECE, ME, CE</td>
</tr>
<tr>
<td>4.</td>
<td>EUREC604</td>
<td>Computer Architecture &amp; Organization</td>
<td>ECE</td>
</tr>
<tr>
<td>5.</td>
<td>EUREC735</td>
<td>Operating Systems</td>
<td>ECE</td>
</tr>
<tr>
<td>6.</td>
<td>EUREC822</td>
<td>Advanced Computer Architecture</td>
<td>ECE</td>
</tr>
<tr>
<td>7.</td>
<td>EUREC843</td>
<td>Mobile Computing</td>
<td>ECE</td>
</tr>
<tr>
<td>8.</td>
<td>EUREC844</td>
<td>Computer Networks</td>
<td>ECE</td>
</tr>
<tr>
<td>9.</td>
<td>EUREC852</td>
<td>Database Management system</td>
<td>ECE</td>
</tr>
<tr>
<td>10.</td>
<td>EUREC853</td>
<td>Software Engineering</td>
<td>ECE</td>
</tr>
<tr>
<td>11.</td>
<td>EUREC855</td>
<td>Software project Management</td>
<td>ECE</td>
</tr>
<tr>
<td>12.</td>
<td>EUREC856</td>
<td>Artificial Intelligence</td>
<td>ECE</td>
</tr>
<tr>
<td>13.</td>
<td>EUREC8511</td>
<td>Neural Networks</td>
<td>ECE</td>
</tr>
<tr>
<td>No.</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Faculty</td>
</tr>
<tr>
<td>-----</td>
<td>-------------</td>
<td>-------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>14.</td>
<td>EUREC854</td>
<td>Systems modelling &amp; Simulation</td>
<td>ECE</td>
</tr>
<tr>
<td>15.</td>
<td>EUREC863</td>
<td>Web Technologies</td>
<td>ECE</td>
</tr>
<tr>
<td>16.</td>
<td>EURME852</td>
<td>Database Management System</td>
<td>ME</td>
</tr>
<tr>
<td>17.</td>
<td>EURME853</td>
<td>Software Engineering</td>
<td>ME</td>
</tr>
<tr>
<td>18.</td>
<td>EURME856</td>
<td>Artificial Intelligence</td>
<td>ME</td>
</tr>
<tr>
<td>19.</td>
<td>EURME8511</td>
<td>Neural Networks &amp; Fuzzy Logic</td>
<td>ME</td>
</tr>
<tr>
<td>20.</td>
<td>EURME8518</td>
<td>Data Structures</td>
<td>ME</td>
</tr>
<tr>
<td>21.</td>
<td>EURME862</td>
<td>Operating Systems</td>
<td>ME</td>
</tr>
<tr>
<td>22.</td>
<td>EURME863</td>
<td>Web Technologies</td>
<td>ME</td>
</tr>
<tr>
<td>23.</td>
<td>EURME8620</td>
<td>Data Mining</td>
<td>ME</td>
</tr>
<tr>
<td>24.</td>
<td>EURCE8502</td>
<td>Database management systems</td>
<td>CE</td>
</tr>
<tr>
<td>25.</td>
<td>EURCE 8503</td>
<td>Software engineering</td>
<td>CE</td>
</tr>
<tr>
<td>26.</td>
<td>EURCE 8505</td>
<td>Software Project management</td>
<td>CE</td>
</tr>
<tr>
<td>27.</td>
<td>EURCE 8506</td>
<td>Artificial Intelligence</td>
<td>CE</td>
</tr>
<tr>
<td>28.</td>
<td>EURCE 8511</td>
<td>Neural networks</td>
<td>CE</td>
</tr>
<tr>
<td>29.</td>
<td>EURCE 8518</td>
<td>Data Structures with C++</td>
<td>CE</td>
</tr>
<tr>
<td>30.</td>
<td>EURCE 8524</td>
<td>Computer Organization</td>
<td>CE</td>
</tr>
<tr>
<td>31.</td>
<td>EURCE 8602</td>
<td>Operating Systems</td>
<td>CE</td>
</tr>
<tr>
<td>32.</td>
<td>EURCE 8603</td>
<td>Web Technology</td>
<td>CE</td>
</tr>
<tr>
<td>33.</td>
<td>EURCE 8617</td>
<td>Computer Network</td>
<td>CE</td>
</tr>
<tr>
<td>34.</td>
<td>EID101&amp;113</td>
<td>Programming with C (T &amp; L)</td>
<td>EE</td>
</tr>
<tr>
<td>35.</td>
<td>EID201</td>
<td>Object Oriented programming with C++</td>
<td>EE</td>
</tr>
<tr>
<td>36.</td>
<td>ECS364</td>
<td>Fundamentals of Data structures</td>
<td>EE</td>
</tr>
<tr>
<td>37.</td>
<td>ECS461</td>
<td>Database Management Systems</td>
<td>EE</td>
</tr>
<tr>
<td>38.</td>
<td>ECS362</td>
<td>Operating System Concepts</td>
<td>EE</td>
</tr>
<tr>
<td>39.</td>
<td>ECS463</td>
<td>Introduction to Computer Networks</td>
<td>EE</td>
</tr>
<tr>
<td>40.</td>
<td>ECS464</td>
<td>Introduction to Web Technologies</td>
<td>EE</td>
</tr>
<tr>
<td>41.</td>
<td>ECS462</td>
<td>Fundamentals of Software Engineering</td>
<td>EE</td>
</tr>
</tbody>
</table>
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Prof</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Asst. Prof</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th></th>
<th>Actual</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support staff (Technical)</td>
<td>03</td>
<td>03</td>
</tr>
</tbody>
</table>

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.

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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.


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).

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Recharging programme</th>
<th>Number of faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refresher/ orientation programmes</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Training Programmes / FDP / Short Term Course</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>National &amp; International Conferences / Seminars</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Workshops</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Management Development Programme</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

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

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

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
</tr>
<tr>
<td>From other universities within the State</td>
</tr>
<tr>
<td>From universities from other States</td>
</tr>
<tr>
<td>From universities outside the country</td>
</tr>
</tbody>
</table>

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.

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

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.
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 6th Inter 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

***
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)

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Associate Prof.</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asst. Prof.</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

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

12. List of senior visiting fellows, adjunct faculty, emeritus professors:

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

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

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Faculty</th>
<th>No. of classes</th>
<th>Percentage of classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mr. Sankar Mukherjee</td>
<td>32</td>
<td>10%</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Actual (including CAS &amp; MPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support staff</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

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

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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): 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.
   - 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:
   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

<table>
<thead>
<tr>
<th>Student progression</th>
<th>Percentage against enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG to PG</td>
<td>N/A</td>
</tr>
<tr>
<td>PG to M.Phil</td>
<td>Nil</td>
</tr>
<tr>
<td>PG to Ph.D.</td>
<td>Nil</td>
</tr>
<tr>
<td>Ph.D. to Post-Doctoral</td>
<td>Nil</td>
</tr>
<tr>
<td>Employed</td>
<td>80%</td>
</tr>
<tr>
<td>Campus selection</td>
<td>70%</td>
</tr>
<tr>
<td>Other than campus recruitment</td>
<td>10%</td>
</tr>
<tr>
<td>Entrepreneurs</td>
<td>10%</td>
</tr>
</tbody>
</table>

36. Diversity of staff

<table>
<thead>
<tr>
<th>Percentage of faculty who are</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates of the same University</td>
<td>Nil</td>
</tr>
<tr>
<td>From other universities within the State</td>
<td>100%</td>
</tr>
<tr>
<td>From universities from other States</td>
<td>Nil</td>
</tr>
<tr>
<td>From universities outside the country</td>
<td>Nil</td>
</tr>
</tbody>
</table>

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 brainstorming 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)

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Alumni</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ravi Teja . E</td>
<td>BPL</td>
</tr>
<tr>
<td>2</td>
<td>Amulya .R</td>
<td>Arteria Technologies</td>
</tr>
</tbody>
</table>
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.

47. Highlight the participation of students and faculty in extension activities.
   - Organized Helping hands for the housekeeping staff.
   - Took classes in Government school.
   - Formed CSR Club – helping orphanage children.

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**

• Mediocrity of the students
• Lack of good diversity students

**Opportunities**

• To offer industry 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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