



Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	BAPATLA ENGINEERING COLLEGE
Name of the head of the Institution	Dr. V DAMODARA NAIDU
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08643224244
Mobile no.	9440730035
Registered Email	bec_principal@yahoo.com
Alternate Email	bec_principal@becbapatla.ac.in
Address	GBC ROAD
City/Town	BAPATLA
State/UT	Andhra Pradesh
Pincode	522102
2. Institutional Status	
Autonomous Status (Provide date of Conformant of Autonomous Status)	09-Mar-2016
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	DR. P. PARDHASARADHI
Phone no/Alternate Phone no.	08643224244

Mobile no.	9849230426														
Registered Email	beciqac@gmail.com														
Alternate Email	beciqac@becbapatla.ac.in														
3. Website Address															
Web-link of the AQAR: (Previous Academic Year)	http://www.becbapatla.ac.in/pages/iqac														
4. Whether Academic Calendar prepared during the year	Yes														
if yes, whether it is uploaded in the institutional website: Weblink :	http://www.becbapatla.ac.in/pages/academic-calenders														
5. Accrediation Details															
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.70</td> <td>2015</td> <td>03-Mar-2015</td> <td>02-Mar-2020</td> </tr> </tbody> </table>		Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.70	2015	03-Mar-2015	02-Mar-2020
Cycle	Grade					CGPA	Year of Accrediation	Validity							
		Period From	Period To												
1	B	2.70	2015	03-Mar-2015	02-Mar-2020										
6. Date of Establishment of IQAC	07-Oct-2015														
7. Internal Quality Assurance System															
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td>Intellectual Property & Innovation Management</td> <td>31-Aug-2018 2</td> <td>55</td> </tr> </tbody> </table>		Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries	Intellectual Property & Innovation Management	31-Aug-2018 2	55					
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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.															
<table border="1"> <thead> <tr> <th>Institution/Department/Faculty</th> <th>Scheme</th> <th>Funding Agency</th> <th>Year of award with duration</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Dr. NAGALLA SUDHAKAR</td> <td>SPDP</td> <td>AICTE</td> <td>2019 2</td> <td>1633000</td> </tr> </tbody> </table>		Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount	Dr. NAGALLA SUDHAKAR	SPDP	AICTE	2019 2	1633000				
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Dr. NAGALLA SUDHAKAR	SPDP	AICTE	2019 2	1633000											
View File															
9. Whether composition of IQAC as per latest NAAC guidelines:	Yes														
Upload latest notification of formation of IQAC	View File														
10. Number of IQAC meetings held during the year :	1														
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes														
Upload the minutes of meeting and action taken report	View File														
11. Whether IQAC received funding from any of the funding agency to support its activities	No														

during the year?

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Developed the feedback process, templates and obtained the feedback from stake holders.

Organized research meeting through research committee and workshops related to research methodology, IPR. etc.

Developed the feedback process, templates and obtained the feedback from stake holders.

Developed and implemented the faculty appraisal system incorporating the achievement goals

High quality assurance activities taken up in the Evaluation systems and the transparency was attained in the end exam script evaluation by distributing the scripts to the student without any fee

[View File](#)

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Best practices to be identified	Documented and disseminated for use uniformly throughout the college
Different methods/approaches for the assessing the Students.	Confidence levels of the students increased
Encouraging the researchers to publish obtain the patents for their work.	More publications and one patent published
Organization of Faculty and staff development Programs	Faculty members are trained in IPR and research approaches Staff members have gained the Microsoft office skills
Improved transparency in Answer script evaluation.	More satisfaction from the students and parents.

[View File](#)

14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Academic Council	22-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

21-Feb-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

College Management Information System include following List of modules
1. Admissions Schedule and issue Applications Online applications and

collection of application fees Record applications 2. Student Record Student record maintenance Transfers/Termination Automatically updated academic records 3. Staff Record Staff record maintenance Printing of statutory staff reports Resignations 4. Fee Management Automatic generation of bills using billing policies Receipts, Credit Notes Cancellations Integration with Tally SAP 5. Internal Examinations Maintenance of Examinations Results entry Academic Performance Reports 6. Communication Staff to staff communication on tablets using SMS and Android App messages 7. Transport Maintenance of vehicle routes Student and Staff registration for transportation 8. Payments Workflow for creating and approving payments 9. Leave Management Leave application and approvals for staff/students 10. Inventory Maintain Inventory Catalogue Stock Issue/Stock Taking Projection for stock purchase based on student strength 11. Hostel Book Rooms for Students, Staff and Visitors (as Guests) Automatically integrated to Billing 12. Health Record Maintenance of Student Health Record 13. Visitor Management Record time in and time out of visitors 14. Enquiries Record Enquiries manually Dashboard to track Enquiries and Followups 15. Attendance Manual attendance on Android tablet devices Attendance reports 16. Academic Planning Allocation of Staff to subjects Time table creation My timetable view for staff Staff diary 17. Teaching Plan Creation and Maintenance of Teaching Plans Progress tracking of teaching plans 18. Assignments Schedule assignments Record and rate Assignment Submissions Online submission of Assignments 19. Assessments Online Assessments based on MCQ Automatics scoring of Assessments 20. Question Bank Create and manage Question Banks Question banks with question linked to learning outcomes, blooms taxonomy and rubrics 21. Feedback Record feedback on students/staff 22. Outcome Based Education Define PEO, PO and CO for all Programs and Courses Mapping of Question paper for all Examinations Question Bank with Mapping to Course Outcomes Real time availability of Course and Program Outcome Attainment 23. Choice Based Credit System Fully Flexible Student Study plan Approval for Student Enrolment 24. Payroll Define Salary Structures and policies Leave Management for Staff Generate Pay slips Attendance through Biometric Devices 25. CoE Hall Tickets Exam Scheduling Mark Scanning Reevaluation Results Publishing Report Advantages to Parents and Students 1) Realtime updates can be seen in their personalized mobile app 2) Instant Communication about their children 3) Homework Communication in their Mobile App/ SMS/ Portal 4) Attendance Percentage in the Parent Mobile App/Portal 5) Online Fee payment can be made by the parents through their mobile app 6) Student Profile up to date can be viewed and corrected

Part B

CRITERION I - CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	CSE	Computer Science and Engineering	17/06/2019
BTech	ECE	Electronics Communication and Engineering	21/06/2019

BTech	EEE	Electrical and Electronics Engineering	19/06/2019
BTech	CE	CIVIL ENGINEERING	20/06/2019
BTech	ME	MECHANICAL ENGINEERING	17/06/2019
BTech	IT	INFORMATION TECHNOLOGY	21/06/2019
BTech	EIE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	20/07/2018

1.1.2 - Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
MCA	COMPUTER APPLICATIONS	18/07/2018	MCA406	18/07/2018
MCA	COMPUTER APPLICATIONS	18/07/2018	MCA504	18/07/2018
MCA	COMPUTER APPLICATIONS	18/07/2018	MCA403	18/07/2018
BTech	ME	18/07/2018	14ME506/A	18/07/2018
BTech	ME	18/07/2018	14ME601	11/07/2018
BTech	ME	18/07/2018	18MAL301	18/07/2018
BTech	ME	18/07/2018	18MEL01	18/07/2018
BTech	ME	18/07/2018	18ME103	18/07/2018
Mtech	ME	18/07/2018	MT/ME/CC -562	18/07/2018
Mtech	ME	18/07/2018	MT/ME/CC -711	18/07/2018
BTech	IT	18/07/2018	14IT305	18/07/2018
BTech	IT	18/07/2018	14IT306	18/07/2018
BTech	IT	18/07/2018	14ITL302	18/07/2018
BTech	IT	18/07/2018	14ITL303	18/07/2018
BTech	IT	18/07/2018	14IT405	18/07/2018
Mtech	Communicaiton and Signal Processing	18/07/2018	CESP-621	18/07/2018
Mtech	Communicaiton and Signal Processing	18/07/2018	CESP-611	18/07/2018
Mtech	Communicaiton and Signal Processing	18/07/2018	CESP-620	18/07/2018
Mtech	Communicaiton and Signal Processing	18/07/2018	CESP-711	18/07/2018
Mtech	Structure Engineering	18/07/2018	MCE/SE/619	18/07/2018
Mtech	Structure Engineering	18/07/2018	MCE/SE/620	18/07/2018
Mtech	Structure Engineering	18/07/2018	MCE/SE/627	18/07/2018
Mtech	Structure Engineering	18/07/2018	MCE/SE/553	18/07/2018
Mtech	Structure Engineering	18/07/2018	MCE/SE/624	18/07/2018
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	18/07/2018	18ECL001	18/07/2018
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	18/07/2018	18ECL002	18/07/2018
BTech	CE	18/07/2018	14CE202	18/07/2018
BTech	CSE	18/07/2018	14CP206	18/07/2018
BTech	CSE	18/07/2018	14CS405	18/07/2018
BTech	CSE	18/07/2018	14CS601	18/07/2018
BTech	CSE	18/07/2018	14CS605	18/07/2018
BTech	CSE/ECE/EEE/EIE/IT	18/07/2018	14ME801	18/07/2018
BTech	CSE	18/07/2018	18CS601	18/07/2018

BTech	CSE	18/07/2018	18CSD43	18/07/2018
BTech	ECE	18/07/2018	14EC302	18/07/2018
BTech	ECE	18/07/2018	14EC702	18/07/2018
BTech	ECE	18/07/2018	14OE706	18/07/2018
BTech	ECE	18/07/2018	14EC701	18/07/2018
BTech	ECE	18/07/2018	18EC203	18/07/2018
BTech	ECE	18/07/2018	18ECD13	18/07/2018
MSc	PHYSICS	18/07/2018	MOOCS(Life Skills)	18/07/2018
MSc	PHYSICS	18/07/2018	MOOCS(Computer Skills)	18/07/2018
MSc	PHYSICS	18/07/2018	MOOCS(Introduction to computer skills)	18/07/2018
BTech	EEE	18/07/2018	14EE503	18/07/2018
BTech	EEE	18/07/2018	14EE604	18/07/2018
BTech	EEE	18/07/2018	18EEI01	18/07/2018
BTech	EEE	18/07/2018	18EEI02	18/07/2018
BTech	EEE	18/07/2018	18EEI04	18/07/2018
BTech	EIE	18/07/2018	14EI605	18/07/2018
BTech	EIE	18/07/2018	14ELL601	18/07/2018
BTech	EIE	18/07/2018	18ELL002	18/07/2018
MSc	MATHEMATICS	18/07/2018	M 204	18/07/2018
MSc	MATHEMATICS	18/07/2019	M 305	18/07/2018
MSc	MATHEMATICS	18/07/2018	M 405 (B)	18/07/2018
MSc	MATHEMATICS	18/07/2018	M 305	18/07/2018
MSc	MATHEMATICS	18/07/2018	M 405 (B)	18/07/2018
MSc	COMPUTER SCIENCE	18/07/2018	MCS102	18/07/2018
MSc	COMPUTER SCIENCE	18/07/2018	MCS301	18/07/2019
MSc	COMPUTER SCIENCE	18/07/2018	MCS206	18/07/2018
MSc	COMPUTER SCIENCE	18/07/2018	MCS306	18/07/2018
MCA	COMPUTER APPLICATIONS	18/07/2019	MCA301	18/07/2018
MCA	COMPUTER APPLICATIONS	18/07/2018	MCA501	18/07/2018

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		

1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CIVIL ENGINEERING	18/07/2018
BTech	COMPUTER SCIENCE AND ENGINEERING	18/07/2018
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	18/07/2018
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	18/07/2018

BTech	ELECTRONICS AND INSTRUMENTATION ENGINEERING	18/07/2018
BTech	MECHANICAL ENGINEERING	18/07/2018
BTech	INFORMATION TECHNOLOGY	18/07/2018

1.3 - Curriculum Enrichment

1.3.1 - Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
MINI PROJECT on IOT	16/08/2018	182
PCB TRAINING	23/07/2018	174
CAMPUS TO CORPORATE	17/06/2019	842

1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	CIVIL ENGINEERING	29
BTech	COMPUTER SCIENCE AND ENGINEERING	16
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	136
Mtech	STRUCTURE ENGINEERING	8
BTech	MECHANICAL ENGINEERING	11
BTech	ELECTRONIC AND INSTRUMENTATION ENGINEERING	12
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	15
BTech	INFORMATION TECHNOLOGY	25
MCA	COMPUTER APPLICATION	35

1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	No

1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The college believes in continuous assessment and upgrading of academic standards. Accordingly, the college obtains, at regular intervals, feedback from stakeholders. Feedback is obtained at three levels. i. From students on Graduates' day - an annual event ii. From management at meetings chaired by management representative iii. From teachers at college meetings - held regularly i) From students on Graduates' day Students feedback would be obtained on the Graduates' Day, which is generally held in the month of November. A well designed feedback form is prepared by the college for the purpose. The feedback form elicit responses from students on a range of issues which include, the usefulness of the course, competency of the teachers and facilities made available to students. The feedback obtained is assessed under SPSS system, which helps the college to plug its weaknesses. ii) From management at meetings chaired by management representative The management makes serious efforts in improving the quality of education, imparted at the college. Meeting of college Principal and senior teachers would be held regularly at the head quarters and generally the meetings would be chaired by the Executive Secretary. The management gives a patient hearing to the observations of the Principal and senior teachers and come out with valid solutions. iii) From teachers at college meetings General staff meetings would be called at regular intervals or as and when the situation demands to take care of issues arising. The meeting would be attended by the members of both teaching and nonteaching faculty. In these meetings Principal takes stock of the academic progress of the college, which includes completion of syllabus and submission of records by the teachers. Both teachers and nonteaching staff are given freedom to speak about their grievances, which

would be recorded and addressed later in consultation with the management. A range of issues like students discipline and other general grievances would be discussed at length. Such frequent staff meetings not only eliminate misconceptions among the members of staff but also contribute to the academic improvement of the college

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	CE	180	142	128
BTech	CSE	180	176	173
BTech	ECE	180	176	170
BTech	EEE	180	82	65
BTech	EIE	60	23	9
BTech	IT	120	91	89
BTech	ME	180	135	116
Mtech	CSP	18	10	7
Mtech	CAD/CAM	18	6	2
Mtech	CSE	18	2	0
Mtech	PSE	18	6	3
Mtech	Structures	18	12	8
MCA	Computer Application	60	3	0
MSc	Computer Science	40	25	17
MSc	Maths	40	36	30
MSc	Analytical Chemistry	30	25	14
MSc	Organic Chemistry	30	30	30
MSc	Physics	30	30	25

2.2 - Catering to Student Diversity

2.2.1 - Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3701	230	194	34	228

2.3 - Teaching - Learning Process

2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
228	210	72	71	0	8

2.3.2 - Students mentoring system available in the institution? Give details. (maximum 500 words)

Assessment can answer important questions, i.e. questions about the learning of individual students, the effectiveness of a single course or program, or even the entire institution. Precision in formulating the questions of interest helps to pinpoint the level of analysis, determine the appropriate methods, and guide data sampling, aggregation, interpretation, and use. Our basic assumption is that evidence of student learning should be used for multiple levels of assessment. We do, of course, also gather and use information, and factor it into complex analyses of the learning environment, especially at the program and institutional levels. The best evidence of learning comes from direct observation of student work rather than from an input inventory (eg, list of courses completed Marks in intermediate) or other summary. The student performance observed is the most valuable data for to assessment. Course embedded assignments provide the most valid evidence for all levels of analysis

because they are closely aligned with faculty expectations and with the teaching learning process. The ways of sampling, aggregating, and grouping the evidence for analysis (to make collection more manageable) will depend on the original questions posed. The questions will also determine how the data are interpreted to produce action. Internally, faculty members and staff accomplish aggregation by describing standards, translating them into consistent scoring scales, and anonymously applying the resulting rubrics to the evidence at hand. Formative and summative questions would probe what individual students are learning and how well they are meeting the goals of a course (whether related to disciplinary content or to using transferable intellectual and practical skills). Typical assessment questions at this level: Is the student learning as expected? How well has the student achieved the learning outcomes set for the course? What are the student's strengths and weaknesses? How well is the student exhibiting his skills when demanded? To collect the data we use some tools like: Creating assignments Creating exams Using classroom assessment techniques Creating and using rubrics. Sources of evidence: All student work embedded in the course (for example quizzes and exams, papers, projects, presentations,) can provide evidence. This is the level of assessment at which instructor assigned marks typically provide feedback to students about their progress and success. Aggregation of data: Aggregation is often sequential as evidence is collected for each student during the course to track individual learning and improvement. Typically a final assessment holistically sums up a semester of learning. For under performers we encourage to practice the same questions. We try to bridge the gap that developed between the expectation and the performance by going through the evidence that is already created by class teachers. Our committed institution also encourage the students to attend the remedy classes that will be conducted by the class teachers. By doing this we spread the confidence in the students so that they can face the challenges in the exams easily. And for good performers we systematically brush up their performance further and encourage to participate in various competitions and write papers and do projects

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3931	228	1:17

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
228	228	0	12	56

2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. P. Asha Madhavi	Assistant Professor	NPTEL eLITE Award (Soft Skills)
2018	Dr. P. Asha Madhavi	Assistant Professor	NPTEL eLITE Award (Developing Soft Skills and Personality)
2018	Dr. P. Surendra Kumar	Assistant Professor	Best paper award , InCAP 2018
2018	Dr B. Chandra Mohan	Professor	Best paper award , InCAP 2018
2018	Dr. K. V. L. N. Acharyulu	Associate Professor	Green thinker Z Outstanding Educator Award
2018	Dr. K. V. L. N. Acharyulu	Associate Professor	Research Excellence Award

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	1	08/12/2018	10/01/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	2	30/04/2019	24/07/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	3	21/11/2018	11/01/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	4	26/04/2019	26/06/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	5	03/11/2018	05/01/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	6	13/04/2019	25/06/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	7	05/11/2018	01/01/2019
BTech	CE/CSE/ECE/EEE/EIE/IT/ME	8	27/03/2019	17/04/2019

Mtech	Structures/CADCAM/CSP/CSE/PSE	1	08/01/2019	26/04/2019
Mtech	Structures/CADCAM/CSP/CSE/PSE	2	13/07/2019	17/10/2019
MSc	Maths/Physics/Analytical Chemistry/Organic Chemistry/Computer Science	1	07/11/2018	06/02/2019
MSc	Maths/Physics/Analytical Chemistry/Organic Chemistry/Computer Science	2	26/04/2019	05/09/2019
MSc	Maths/Physics/Analytical Chemistry/Organic Chemistry/Computer Science	3	06/11/2018	08/02/2019
MSc	Maths/Physics/Analytical Chemistry/Organic Chemistry/Computer Science	4	25/04/2019	09/09/2019
MCA	MCA	3	06/11/2018	08/02/2019
MCA	MCA	4	25/04/2019	10/09/2019

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2.5.2 - Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
511	6938	7.36

2.6 - Student Performance and Learning Outcomes

2.6.1 - Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.becbapatla.ac.in/pages/co-po-mapping>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BT01	BTech	CE	170	115	67.64
BT02	BTech	CSE	157	124	78.98
BT03	BTech	ECE	177	127	71.75
BT04	BTech	EEE	152	112	73.68
BT05	BTech	EIE	41	26	63.41
BT06	BTech	IT	80	62	77.5
BT07	BTech	ME	165	125	75.75
MT03	Mtech	CSP	6	6	100
MT05	Mtech	CAD/CAM	5	5	100
MT02	Mtech	CSE	0	0	0
MT04	Mtech	PSE	4	3	75
MT01	Mtech	Structures	11	11	100
MCA01	MCA	Computer Applications	33	31	93.94
MSc02	MSc	Computer Science	15	14	93.33
MSc03	MSc	Maths	21	20	95.23
MSc01	MSc	Analytical Chemistry	17	15	88.23
MSc04	MSc	Organic Chemistry	29	14	76.67
MSc05	MSc	Physics	29	26	89.65

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.becbapatla.ac.in/pages/students-satisfactory-survey>**CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION****3.1 - Promotion of Research and Facilities**

3.1.1 - The institution provides seed money to its teachers for research

Yes			
Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant
V ARUNA	84296	2018	1

3.1.2 - Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr B.Chandra Mohan	Best Research	16/12/2018	InCAP, Hyderabad, India
National	Mr P.Surendra Kumar	Best Research	16/12/2018	InCAP, Hyderabad, India
National	Dr.K.V.L.N.Acharyulu	Research Excellent	10/02/2019	Institute of Scholars (INSC) Bangalore, India
National	Dr.K.V.L.N.Acharyulu	Outstanding Educator	05/04/2019	Green Thinker Society, Punjab, India.

3.2 - Resource Mobilization for Research

3.2.1 - Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
No file uploaded.				

3.2.2 - The institution provides seed money to its teachers for research,

357700

3.3 - Innovation Ecosystem

3.3.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Intellectual property and Innovation management	Centre for Continuing Education (CCE)	31/08/2018

3.3.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Dr B.Chandra Mohan	Best Research	InCAP, Hyderabad, India	16/12/2018	Research
Mr P.Surendra Kumar	Best Research	InCAP, Hyderabad, India	16/12/2018	Research
Dr.K.V.L.N.Acharyulu	Research Excellent	Institute of Scholars (INSC) Bangalore, India	10/02/2019	Research
Dr.K.V.L.N.Acharyulu	Outstanding Educator	Green Thinker Society, Punjab,	05/04/2019	Research

3.3.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					

3.4 - Research Publications and Awards

3.4.1 - Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science Engineering	2
Electronics and Communication Engineering	4
Electrical and Electronics Engineering	1
Mechanical Engineering	1

3.4.2 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	civil engineering	4	1
International	Computer Science Engineering	11	1.68
International	Electronics and Communication Engineering	11	4.07
International	Electrical and Electronics Engineering	9	1.68
International	Mechanical Engineering	21	1.22
International	Information Technology	3	3.6

3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electrical and Electronics Engineering	1
Mechanical Engineering	5
Maths	2
Chemistry	3
English	4
Information Technology	4
Electronics and Communication Engineering	4
Computer Science and Engineering	2
Civil Engineering	2

[View File](#)

3.4.4 - Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
B. Ratna Sunil, Friction assisted solid state surface alloying (Published)	Published	1941005168	15/02/2019
B. Ratna Sunil, A novel zinc based multiphase material for degradable biomedical applications (Published)	Published	1941012479	26/04/2019

3.4.5 - Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
An analysis of spectroscopic signatures, DFT calculations and antibacterial activity of newly synthesized Cu(II) and Pd(II) complexes of	P. Krishna Murthy	Indian Chemical Society	2019	0	Bapatla Engineering College	0

2aminoquinolin8ol and 2(naphthalenlylmethyl) 4,5dihydro1Himidazole						
An analysis of structural and spectroscopic signatures, the reactivity study of synthesized 4,6dichloro2(methylsulfonyl)pyrimidine: A potential thirddorder nonlinear optical material	P. Krishna Murthy	Journal of Molecular Structure	2019	0	Bapatla Engineering College	0
Copper promoted CS and CN crosscoupling Reactions:The synthesis of 2 (Naryolamino)benzothiazoles and 2 (Naryolamino)benzimidazoles	K. Prasada Rao,	Tetrahedron	2019	0	Bapatla Engineering College	0
Synthesis,Charactreization and Anti Inflammatory activity of new Pyrimidines	V. Madhavava Rao	Asian Journal of organic and Medicinal Chemistry	2019	0	Bapatla Engineering College	0
Polyethylene glycol (PEG400): An efficient onepot green synthesis and antiviral activity of novel α Diaminophosphonates,	P. Krishna Murthy	Phosphorus, Sulphur, and Silicon and the Related Elements	2019	0	Bapatla Engineering College	0
An analysis of spectroscopic signatures, DFT calculations and antibacterial activity of newly synthesized Cu(II) and Pd(II) complexes of 2aminoquinolin8ol and 2(naphthalenlylmethyl) 4,5dihydro1Himidazole	P. Krishna Murthy	Indian Chemical Society	2019	0	Bapatla Engineering College	0
An analysis of structural and spectroscopic signatures, the reactivity study of synthesized 4,6dichloro2(methylsulfonyl)pyrimidine: A potential thirddorder nonlinear optical material	P. Krishna Murthy	Journal of Molecular Structure	2019	0	Bapatla Engineering College	0
Copper promoted CS and CN crosscoupling Reactions:The synthesis of 2 (Naryolamino)benzothiazoles and 2 (Naryolamino)benzimidazoles	K. Prasada Rao,	Tetrahedron	2019	0	Bapatla Engineering College	0
Synthesis,Charactreization and Anti Inflammatory activity of new Pyrimidines	V. Madhavava Rao	Asian Journal of organic and Medicinal Chemistry	2019	0	Bapatla Engineering College	0
Significance of Cloud Computing for Big Data	Shaik Nazeer	Advance Research in Dynamical ControlSystem	2019	3	Bapatla Engineering College	3
Opposition Based Genetic Algorithm for Community Detection in Social Networks	Harish Kumar .S	Proceedings of the National Academy of Sciences	2019	0	Bapatla Engineering College	0
A Review on GUI development of Visual Cryptography Scheme for User Authentication	P.Nanda Kishore	Pramana Research Journal	2019	0	Bapatla Engineering College	0
Retinal blood vessel zoning	Ch.Altaff	International Journal of scientific research and engineering development	2019	0	Bapatla Engineering College	0
Efficient detection of Brain Tumor in MRI using Non Intelligent based techniques	Imran Basha Syed	International Journal of Engineering and Techniques (IJET)	2018	0	Bapatla Engineering College	0
MFCC and DTW based Speech Recognition	N. Naga Swathi	International Research Journal of	2018	0	Bapatla Engineering	0

		Engineering and Technology			College	
Image retrieval using interactive genetic algorithm	Chesti Altaff Hussain	International Journal of Innovations in Engineering and Technology (IJIET)	2018	0	Bapatla Engineering College	0
Satellite image resolution enhancement	D.Swetha	International Research Journal of Engineering and Technology (IRJET)	2018	0	Bapatla Engineering College	0
Contrast Enhancement of grey level and color image using DWT and SVD	D. Swetha	International Research Journal of Engineering and Technology (IRJET)	2018	0	Bapatla Engineering College	0
Fuzzy Based Review Rating Prediction in ECommerce	M Selvi	International Journal of Business Intelligence and Data Mining	2018	0	Bapatla Engineering College	0
Multislot Microstrip Antenna Design in Ultra Wide Band Region using HFSS software	K.Kalpana	IRJET	2018	0	Bapatla Engineering College	0
Design of a TripleFrequency VertexFed Pentagonal Ring Slot Antenna with Estrip for WiMAX and WLAN Applications	Chandra Mohan Bhuma	IEEE Antennas and Propagation Magazine	2018	3	Bapatla Engineering College	3
Survey on Performance of Various Routing Protocols and Attacks in MANETS	M.Suneel	International Journal of Electronics, Electrical and Computational System	2018	0	Bapatla Engineering College	0
Automatic Timetable management system using Raspberry Pi and RFID	D.Suneel Varma	International Journal of Reasearch in Advent Technology, Special issue NCKIETS	2018	0	Bapatla Engineering College	0
Comparative study of cooling systems for vacuum forming tool	B.I.Hussain and M.Safiulla	Materials Today: Proceedings	2018	0	Bapatla Engineering College	0
Application of Rapid Tooling for Vacuum Forming to Reduce Cycle Time.	B.I.Hussain and M.Safiulla	Advances in Fire and Process Safety. Springer Transactions in Civil and Environmental Engineering.	2018	0	Bapatla Engineering College	0
Effect of alumina nano additives into biodieseldiesel blends on the combustion performance and emission characteristics of a diesel engine with exhaust gas recirculation	Praveen Anchupogu	Environmental Science and Pollution Research SpringerVerlag GmbH Germany	2018	0	Bapatla Engineering College	0
The combined effect of multiwalled carbon nanotubes and exhaust gas recirculation on the performance and emission characteristics of a diesel engine	Praveen Anchupogu	International Journal of Ambient Energy	2018	2	Bapatla Engineering College	2
Heat Transfer Augmentation Of Looped Heat Pipe Using	Praveen Anchupogu	International Journal	2018	0	Bapatla	0

WaterAl2o3 Nanofluid		Of Mechanical And Production Engineering Research And Development (IJMPERD)			Engineering College	
Mix Design and Flexural Response of Ultra High Performance Fiber Reinforced Concrete	T Chandra sekharRao	International Journal of Materials today (Science direct)	2018	1	Bapatla Engineering College	1
Defluridation of Ground water's of Darsi mandal, Prakasam district, Andhra Pradesh by using Natural absorbents	A.V.Rama Raju	International Journal of Civil Engineering Technology	2018	0	Bapatla Engineering College	0
A Special Case Study in LPP	Dr.K.V.L.N.Acharyulu,B.SaiPrasanna and B.SriSatyaRajaniin,	International Journal of Management, Technology and Engineering,	2018	0	Bapatla Engineering College	0
Extended ideals of Almost Distributive Lattices,	N. Rafi and Ravi Kumar Bandaru	Journal of International Mathematical Virtual Institute	2018	0	Bapatla Engineering College	0
μ -filters of Almost Distributive Lattices	N. Rafi and Ravi Kumar Bandaru	Chamchuri Journal of Mathematics,	2018	0	Bapatla Engineering College	0
Stabilityindicating RPHPLC method for the determination of doxepin, benzyl alcohol and capsaicin in bulk pharmaceutical dosage forms	Prasada Rao K	Journal of Emerging Technologies and Innovative Research	2018	0	Bapatla Engineering College	0
Analytical Stability Indicating HPLC Assay and	Prasada Rao K	Journal of Emerging Technologies and Innovative Research	2018	0	Bapatla Engineering College	0
Nano BF3.SiO2 catalysed, microwave assisted MichaelisArbuzov reaction to synthesize biologically active phosphonates under solventfree condition	Prasada Rao K	Materials today proceedings	2018	0	Bapatla Engineering College	0
Stability indicating RPHPLC method for the determination of doxepin, benzyl alcohol and capsaicin in bulk pharmaceutical dosage forms	Prasada Rao K	Journal of Emerging Technologies and Innovative Research	2018	0	Bapatla Engineering College	0
Analytical Stability Indicating HPLC Assay and	Prasada Rao K	Journal of Emerging Technologies and Innovative Research	2018	0	Bapatla Engineering College	0
Nano BF3. SiO2 catalysed, microwave assisted MichaelisArbuzov reaction to synthesize biologically active phosphonates under solventfree condition	Prasada Rao K	Materials today proceedings	2018	0	Bapatla Engineering College	0
Artificial Neural Network Techniques by Using Time Series and Parameterized Rainfall Prediction Models: A Comparative Study0	Sudhakar Nagalla	Electronics and Computer Engineering	2018	0	Bapatla Engineering College	0
A Hybrid Model for Rainfall Prediction using Both Parametrized and Time Series Models	Sudhakar Nagalla	Pure and Applied Mathematics	2018	0	Bapatla Engineering College	0
Maximizing Throughput in Multi hop Wireless Network by considering Intra and Inter flow Spatial Reusability	Sudhakar Nagalla	Advanced Research in Dynamical and Control Systems	2018	0	Bapatla Engineering College	0

A Theoretical Analysis of Routing Metrics for Maximizing Throughput in Multihop Wireless Network	Sudhakar Nagalla	Innovative Research Studies	2018	0	Bapatla Engineering College	0
Implementation of cost effective hierarchical Hadoop cluster - a case study for education	Sudhakar Nagalla	International Journal of Engineering Technology	2018	0	Bapatla Engineering College	0
International Journal of Engineering Technology	Sudhakar Nagalla	Advanced Research in Dynamical and Control Systems	2018	0	Bapatla Engineering College	0
An intelligent storage optimization technique for heterogeneous Hadoop clusters	Sudhakar Nagalla	Simulation: Systems, Science and Technology	2018	0	Bapatla Engineering College	0
Community Structure Identification in Social Networks Inspired By Parliamentary Political Competitions	Shaik Nazeer, Harish Kumar .S	Advances in Intelligent Systems and Computing, Springer	2018	0	Bapatla Engineering College	0
Effect of heat treatment on microstructure, microhardness and corrosion resistance of ZE41 Mg alloy	B. Ratna sunil et.al	Koroze A Ochrana Materiálu (DeGruyter)	2019	0	Bapatla Engineering College	0
Hardness and sliding wear characteristics of AA7075T6 surface composites reinforced with B4C and MoS2 particles	B. Ratna sunil et.al	Materials Research Express, (IOP)	2019	1	Bapatla Engineering Colleg	1
Effect of heat treatment on the hardness and wear characteristics of NiCrBSi laser clad deposited on AISI410 stainless steel	B. Ratna sunil et.al	Materials Research Express, (IOP)	2019	1	Bapatla Engineering College	1
Assessing the material dependent stress distribution in fractured bone and orthopedic fixing plate by finite element analysis	B. Ratna sunil et.al	Lecture Notes in Mechanical Engineering (Springer)	2019	0	Bapatla Engineering College	0
Effect of grain refinement on corrosion rate, mechanical and machining behavior of friction stir processed ZE41 Mg alloy	B. Ratna sunil et.al	Transactions of the Indian Institute of Metals (Springer)	2019	1	Bapatla Engineering College	1
Magnesium/fish bone derived hydroxyapatite composites by friction stir processing: studies on mechanical behavior and corrosion resistance	B. Ratna sunil et.al	Bulletin of Materials Science (Springer)	2019	1	Bapatla Engineering College	1
Surface engineering of ZE 41 Mg alloy by friction stir processing: effect of process parameters on microstructure and hardness evolution	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	0	Bapatla Engineering College	0
Role of microstructure and secondary phase on corrosion behavior of heat treated AZ series magnesium alloys	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	0	Bapatla Engineering College	0
Developing composite of ZE41 magnesium alloy calcium by friction stir process for biodegradable implant applications	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	0	Bapatla Engineering College	0
Microstructure, mechanical and corrosion properties of friction stir processed ZE41 Mg alloy	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	0	Bapatla Engineering College	0
Producing Al5083CNT composites by friction stir processing: influence of grain refinement and CNT on	B. Ratna sunil et.al	Materials Today: proceedings	2019	0	Bapatla Engineering	0

mechanical and corrosion properties		(Elsevier)			College	
Effect of TiO ₂ nanoadditives on the Combustion Performance and Emission Characteristics of a DI Diesel Engine	Praveen Anchupogu, G Lakshmi Narayana Rao, B Balakrishna, Dr.B Ravi Sankar	Advanced Science Letters	2019	0	Bapatla Engineering College	0
Preparation and Characterization of Aluminium Metal Matrix Composites	B Ravi Sankar	Advanced Science, Engineering and Medicine (American Scientific Publishers)	2019	0	Bapatla Engineering College	0
Investigations on CI engine with nanosized Zinc Oxide added Mahua Methyl Ester blends	Chiranjeeva Rao Seela, Dr. B Ravi Sankar	International Journal of Ambient Energy	2019	0	Bapatla Engineering College	0
Experimental investigations on tensile strength behavior and microstructure of ultrahighperformance fiberreinforced concrete	T Chandra sekharRao	International Journal of SN Applied Sciences (Springer Link) .	2019	0	Bapatla Engineering College	0
Permanent Deformation Characteristics of Warm Asphalt Binders under Reduced Aging Conditions	Ashok Julaganti	KSCE Journal of Civil Engineering	2019	0	Bapatla Engineering College	0
Fuzzy r- ideals in Γ -incline,	M.Murali Krishna, B. Venkateswarlu and N. Rafi	Annals of Fuzzy Mathematics and Informatics,	2019	0	Bapatla Engineering College	0
Polyethylene glycol (PEG400): An efficient onepot green synthesis and antiviral activity of novel α Diaminophosphonates,	P. Krishna Murthy	Phosphorus, Sulphur, and Silicon and the Related Elements	2019	0	Bapatla Engineering College	0

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3.4.6 - h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Fuzzy Based Review Rating Prediction in ECommerce	M Selvi	International Journal of Business Intelligence and Data Mining	2018	4	0	Bapatla Engineering College
Multislot Microstrip Antenna Design in Ultra Wide Band Region using HFSS software	K.Kalpana	International Journal of Engineering and Techniques (IJET)	2018	1	0	Bapatla Engineering College
Design of a TripleFrequency VertexFed Pentagonal Ring Slot Antenna with Estrip for WiMAX and WLAN Applications	Chandra Mohan Bhuma	IEEE Antennas and Propagation Magazine	2018	9	3	Bapatla Engineering College
Survey on Performance of Various Routing Protocols and Attacks in MANETS	M.Suneel	International Journal of Electronics, Electrical and Computational System	2018	3	0	Bapatla Engineering College
Automatic Timetable management system using Raspberry Pi and RFID	D.Suneel Varma	International Journal of Reasearch in Advent	2018	1	0	Bapatla Engineering College

		Technology, Special issue NCKIETS				
"Comparative study of cooling systems for vacuum forming tool	B.I.Hussain and M.Safiulla	Materials Today: Proceedings	2018	6	0	Bapatla Engineering College
Application of Rapid Tooling for Vacuum Forming to Reduce Cycle Time.	Hussain B.I., Safiulla M., Khaleelu Rehman B.	Advances in Fire and Process Safety. Springer Transactions in Civil and Environmental Engineering.	2018	6	0	Bapatla Engineering College
Role of microstructure and secondary phase on corrosion behavior of heat treated AZ series magnesium alloys	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)Materials Today: proceedings (Elsevier)	2019	14	0	Bapatla Engineering College
Developing composite of ZE41 magnesium alloy calcium by friction stir process for biodegradable implant applications	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	14	0	Bapatla Engineering College
Microstructure, mechanical and corrosion properties of friction stir processed ZE41 Mg alloy	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	14	0	Bapatla Engineering College
Producing Al5083CNT composites by friction stir processing: influence of grain refinement and CNT on mechanical and corrosion properties	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	14	0	Bapatla Engineering College
Effect of TiO2 nanoadditives on the Combustion Performance and Emission Characteristics of a DI Diesel Engine	Praveen Anchupogu, G Lakshmi Narayana Rao, B Balakrishna, Dr.B Ravi Sankar	Advanced Science Letters	2019	3	1	Bapatla Engineering College
Preparation and Characterization of Aluminium Metal Matrix Composites	Dr.B Ravi Sankar	Advanced Science, Engineering and Medicine (American Scientific Publishers)	2019	6	1	Bapatla Engineering College
Investigations on CI engine with nanosized Zinc Oxide added Mahua Methyl Ester blends	Chiranjeeva Rao Seela, Dr. B Ravi Sankar	International Journal of Ambient Energy	2019	6	0	Bapatla Engineering College
Experimental investigations on tensile strength behavior and microstructure of ultrahighperformance fiberreinforced concrete	T Chandra sekharRao	International Journal of SN Applied Sciences (Springer Link).	2019	0	0	Bapatla Engineering College
Permanent Deformation Characteristics of Warm Asphalt Binders under Reduced Aging Conditions	Ashok Julaganti	KSCE Journal of Civil Engineering	2019	2	0	Bapatla Engineering College
Fuzzy r- ideals in T-incline,	M.Murali Krishna, B. Venkateswarlu and N. Rafi:	Annals of Fuzzy Mathematics and Informatics,	2019	0	0	Bapatla Engineering College
Significance of Cloud Computing for Big Data	Shaik Nazeer	Advance Research in Dynamical ControlSystem	2019	1	0	Bapatla Engineering College
Opposition Based Genetic Algorithm for Community Detection in Social Networks	Harish Kumar .S	Proceedings of the National Academy of Sciences	2019	0	0	Bapatla Engineering College
A Review on GUI development of Visual Cryptography Scheme for User Authentication	P.Nanda Kishore	Pramana Research Journal	2019	0	0	Bapatla Engineering

						College
Efficient detection of Brain Tumor in MRI using Non Intelligent based techniques	Imran Basha Syed	International Journal of Engineering and Techniques (IJET)	2018	1	0	Bapatla Engineering College
MFCC and DTW based Speech Recognition	N. Naga Swathi	International Journal of Engineering and Techniques (IJET)	2018	1	0	Bapatla Engineering College
Image retrieval using interactive genetic algorithm	Chesti Altaff Hussain	International Journal of Engineering and Techniques (IJET)	2018	3	0	Bapatla Engineering College
Satellite image resolution enhancement	D.Swetha	International Journal of Engineering and Techniques (IJET)	2018	1	0	Bapatla Engineering College
Contrast Enhancement of grey level and color image using DWT and SVD	D. Swetha	International Journal of Engineering and Techniques (IJET)	2018	1	0	Bapatla Engineering College
Effect of alumina nano additives into biodieseldiesel blends on the combustion performance and emission characteristics of a diesel engine with exhaust gas recirculation	Praveen Anchupogu	Environmental Science and Pollution Research SpringerVerlag GmbH Germany	2018	3	3	Bapatla Engineering College
The combined effect of multiwalled carbon nanotubes and exhaust gas recirculation on the performance and emission characteristics of a diesel engine	Praveen Anchupogu	International Journal of Ambient Energy	2018	3	3	Bapatla Engineering College
Heat Transfer Augmentation Of Looped Heat Pipe Using WaterAl ₂ O ₃ Nanofluid	Praveen Anchupogu	International Journal Of Mechanical And Production Engineering Research And Development (IJMPERD)	2018	3	0	Bapatla Engineering College
Mix Design and Flexural Response of Ultra High Performance Fiber Reinforced Concrete	T Chandra sekharRao	International Journal of Materials today (Science direct)	2018	0	1	Bapatla Engineering College
Defluridation of Ground water's of Darsi mandal, Prakasam district, Andhra Pradesh by using Natural absorbents	A.V.Rama Raju	International Journal of Civil Engineering Technology	2018	0	0	Bapatla Engineering College
A Special Case Study in LPP	Dr.K.V.L.N.Acharyulu,B.SaiPrasanna and B.SriSatyaRajaniin,	International Journal of Management, Technology and Engineering,	2018	5	0	Bapatla Engineering College
A Peculiar Problem in Linear Programming Problem	Dr.K.V.L.N.Acharyulu,A.Bhargavi and G.Sravani,	International Journal of Management, Technology and Engineering,	2018	5	0	Bapatla Engineering College
A Generalized problem in Linear programming problem	Dr.K.V.L.N.Acharyulu , B.SaiPrasanna and B.SriSatyaRajaniin,	International Journal of Management, Technology and Engineering,	2018	5	0	Bapatla Engineering College
A Generalized problem in Linear programming problem	Dr.K.V.L.N.Acharyulu,P.Hema and T.Vimala	International Journal of Management, Technology and Engineering,	2018	5	0	Bapatla Engineering College
Extended ideals of Almost Distributive Lattices,	N. Rafi and Ravi Kumar Bandaru	Bulletin Of International Mathematical Virtual Institute,	2018	0	0	Bapatla Engineering College

Stability indicating RPHPLC method for the determination of doxepin, benzyl alcohol and capsaicin in bulk pharmaceutical dosage forms	Prasada Rao K	Journal of Emerging Technologies and Innovative Research	2018	3	0	Bapatla Engineering College
Analytical Stability Indicating HPLC Assay and	Prasada Rao K	Journal of Emerging Technologies and Innovative Research	2018	3	0	Bapatla Engineering College
Nano BF ₃ .SiO ₂ catalysed, microwave assisted MichaelisArbuzov reaction to synthesize biologically active phosphonates under solventfree condition	Prasada Rao K	Materials today proceedings	2018	3	0	Bapatla Engineering College
Polyethylene glycol (PEG400): An efficient one pot green synthesis and antiviral activity of novel α Diaminophosphonates,	P. Krishna Murthy	Phosphorus, Sulphur, and Silicon and the Related Elements	2019	3	0	Bapatla Engineering College
An analysis of spectroscopic signatures, DFT calculations and antibacterial activity of newly synthesized Cu(II) and Pd(II) complexes of 2-aminoquinolin-8-ol and 2-(naphthalen-1-ylmethyl)-4,5-dihydro-1H-imidazole	P. Krishna Murthy	Indian Chemical Society	2019	3	0	Bapatla Engineering College
An analysis of structural and spectroscopic signatures, the reactivity study of synthesized 4,6-dichloro-2-(methylsulfonyl)pyrimidine: A potential third order nonlinear optical material	P. Krishna Murthy	Journal of Molecular Structure	2019	3	0	Bapatla Engineering College
Copper promoted CS and CN cross coupling Reactions: The synthesis of 2-(N-arylamino)benzothiazoles and 2-(N-arylamino)benzimidazoles	K. Prasada Rao,	Tetrahedron	2019	3	0	Bapatla Engineering College
Synthesis, Characterization and Anti Inflammatory activity of new Pyrimidines	V. Madhavava Rao	Asian Journal of organic and Medicinal Chemistry	2019	3	0	Bapatla Engineering College
Artificial Neural Network Techniques by Using Time Series and Parameterized Rainfall Prediction Models: A Comparative Study	Sudhakar Nagalla	Electronics and Computer Engineering	2019	0	0	Bapatla Engineering College
A Hybrid Model for Rainfall Prediction using Both Parametrized and Time Series Models	Sudhakar Nagalla	Pure and Applied Mathematics	2019	0	0	Bapatla Engineering College
Maximizing Throughput in Multi hop Wireless Network by considering Intra and Inter flow Spatial Reusability	Sudhakar Nagalla	Advanced Research in Dynamical and Control Systems	2019	0	0	Bapatla Engineering College
A Theoretical Analysis of Routing Metrics for Maximizing Throughput in Multihop Wireless Network	Sudhakar Nagalla	Innovative Research Studies	2019	0	0	Bapatla Engineering College
Implementation of cost effective hierarchical Hadoop cluster - a case study for education	Sudhakar Nagalla	International Journal of Engineering Technology	2019	0	0	Bapatla Engineering College
Multilevel Storage Optimization Using Dimension Reduction and Compression Framework (MLSODRC) Application and Comparison for Real Time Data	Sudhakar Nagalla	Advanced Research in Dynamical and Control Systems	2019	0	0	Bapatla Engineering College
An intelligent storage optimization technique for	Sudhakar Nagalla	Simulation: Systems,	2019	0	0	Bapatla

heterogeneous Hadoop clusters		Science and Technology				Engineering College
Community Structure Identification in Social Networks Inspired By Parliamentary Political Competitions	Shaik Nazeer,Harish Kumar .S	Advances in Intelligent Systems and Computing, Springer	2019	0	0	Bapatla Engineering College
Retinal blood vessel zoning	Ch.Altaff	International Journal of scientific research and engineering development	2019	3	0	Bapatla Engineering College
Effect of heat treatment on microstructure, microhardness and corrosion resistance of ZE41 Mg alloy	B. Ratna sunil et.al	Koroze A Ochrana Materiálu (DeGruyter)	2019	14	0	Bapatla Engineering College
Hardness and sliding wear characteristics of AA7075T6 surface composites reinforced with B4C and MoS2 particles	B. Ratna sunil et.al	Materials Research Express, (IOP)	2019	14	1	Bapatla Engineering College
Effect of heat treatment on the hardness and wear characteristics of NiCrBSi laser clad deposited on AISI410 stainless steel	B. Ratna sunil et.al	Materials Research Express, (IOP)	2019	14	1	Bapatla Engineering College
Assessing the material dependent stress distribution in fractured bone and orthopedic fixing plate by finite element analysis	B. Ratna sunil et.al	Lecture Notes in Mechanical Engineering (Springer)	2019	14	0	Bapatla Engineering College
Effect of grain refinement on corrosion rate, mechanical and machining behavior of friction stir processed ZE41 Mg alloy	B. Ratna sunil et.al	Transactions of the Indian Institute of Metals (Springer)	2019	14	0	Bapatla Engineering College
Magnesium/fish bone derived hydroxyapatite composites by friction stir processing: studies on mechanical behavior and corrosion resistance	B. Ratna sunil et.al	Magnesium/fish bone derived hydroxyapatite composites by friction stir processing: studies on mechanical behavior and corrosion resistance	2019	14	0	Bapatla Engineering College
Surface engineering of ZE 41 Mg alloy by friction stir processing: effect of process parameters on microstructure and hardness evolution	B. Ratna sunil et.al	Materials Today: proceedings (Elsevier)	2019	14	0	Bapatla Engineering College

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3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	56	61	9	45
Presented papers	60	7	4	0
Resource persons	4	10	2	2

3.5 - Consultancy

3.5.1 - Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Design and Testing	Private and Government Orginasations	1866000

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3.5.2 - Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				

3.6 - Extension Activities

3.6.1 - Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Air Pollution	NCC	6	25
Plastic Pollution	NCC	6	23
Water Pollution	NCC	6	24

[View File](#)

3.6.2 - Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			

3.6.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
SWACHH BHARAT	NCC	AIR POLLUTION	6	25
SWACHH BHARAT	NCC	PLASTIC POLLUTION	6	23
SWACHH BHARAT	NCC	WATER POLLUTION	6	24

3.7 - Collaborations

3.7.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			

3.7.2 - Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	COMPANIES DETAILS ATTACHED AS A FILE	01/05/2019	13/07/2019	228

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3.7.3 - MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Construction Industry Development Council, New Delhi	29/11/2019	1. Generation of Livelihoods for unemployed rural/Semi urban youths weaker section of society under sponsored programme of CSR initiative of cooperate sector in India and abroad. 2. Training for persons in construction fields	2
EMMELA DATA ANALYTICS PRIVATE LIMITED, BANGALORE	08/06/2018	The exchange of students 2.The exchange of faculty members	1
New Mexico State	01/11/2018	1.The exchange of students 2.The exchange of faculty members 3.Joint research activities and	1

University		publications 4.The exchange of Invitations to scholars to participate in conference, colloquia, symposia and sharing of experience 5. Exchange of informatio	
CADDY LAB	18/02/2018	Joint research activities and publications 4.The exchange of Invitations to scholars to participate in conference, colloquia,	1
APPLY VOLT, HYDERABAD	18/07/2018	Generation of Livelihoods for unemployed rural/Semi urban youths	1
ICT academy	18/07/2018	Exchange of information in the fields of interest to both universities including the exploration of potential degree programs.	1

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CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
125.29	92.62

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

4.2 - Library as a Learning Resource

4.2.1 - Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL	Fully	Version:2.0	2006

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	57461	11345915	2886	615596	60347	11961511
Reference Books	14107	7518714	863	184081	14970	7702795
e-Books	1157	13570	0	0	1157	13570
Journals	120	255057	0	0	120	255057
e-Journals	523	1677475	0	0	523	1677475
CD & Video	3044	0	193	0	3237	0
Others (specify)	236	100000	0	0	236	100000

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4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			

4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1055	24	24	25	25	8	12	140	
Added	345	1	1		1			100	
Total	1400	25	25	25	26	8	12	240	0

4.3.2 - Bandwidth available of internet connection in the Institution (Leased line)

240 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Cisco DMS	http://www.becbapatla.ac.in/facilities/cisco-dms

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
927.53	676.46	344.07	482.72

4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The College adopts a preventive management system for all equipment and devices that are used in the Classrooms, laboratories, and other places. It has established a college Maintenance committee consisting of faculty members and technical staff from the disciplines of Civil engineering, Electrical and Electronics engineering, and Mechanical Engineering to take care of the maintenance of College building maintenance, electrical maintenance, and mechanical maintenance such as plumbing, carpentry, etc. The department Heads inform the Convener of the committee and the work is delegated to the appropriate persons. For example, if it is an electrical problem, the issue is taken up by the member from the Electrical engineering and the concerned technician perform the maintenance. This include the electrical or mechanical maintenance in the class rooms, offices, laboratories common places, etc. Maintenance of power systems such as UPS, Electrical Generator, Solar energy systems maintenance is also carried out the Department of electrical and Electronic engineering. For the laboratory equipment maintenance is carried out by the respective departments. Every year preventive maintenance is carried out internally and, if necessary, with external technicians. The ICT equipment maintenance of all the class room and the Laboratories is the responsibility of the Computer Science and Engineering Department that include internet, computers, both hardware and software, LCD Projectors etc. The Department of Electronics and Communication Department takes care of the communication systems, both internal and external communication systems. The audio systems, amplifiers, speakers, microphones, etc., are taken care by the Electronics and Instrumentation Department. The building maintenance is coordinated by the member of the Maintenance committee with the Site engineer and construction supervisor. He takes up the identified problems with the construction staff and monitors the completion of the work. A supervisor is made responsible for the general maintenance of the Campus and waste management. The environmental engineering group helps in designing the solid as well as liquid waste disposal systems. The full time Physical Director and the employees of the sports Department are responsible for the maintenance of the play grounds of various games, GYM equipment, other indoor games equipment such as TT Tables, and other play materials. They do the preventive maintenance as per the guidelines for a specific equipment to keep them always ready for the students and staff to play. The Librarian guides the library staff for regular maintenance of books, such as replacing them in the appropriate racks, etc. The gadgets such as computers in the digital library, furniture maintenance, etc. are serviced by the respective departments, where as other equipment such as barcode readers, reprographic equipment, etc. are serviced by the external agencies, mostly with annual maintenance contract.

<http://www.becapatla.ac.in/>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarship for Chemical and EIE Department	92	2300000
Financial Support from Other Sources			
a) National	SC Railway/police welfare fund Department/APSRTC fund Department/Kakitiya Student Welfare Society/Army Department/RIME MINISTER SCHOLAR SHIP/BALIKA SISU SAMRAKSHNA PADAKAM/SRI KASI ANNAPURNA VASAVI ARYA VYSA VRUDHASHRAMAMAND NITYANNA SATRAM/KAPU SEVA	79	1566000
b) International	NIL	0	0

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Campus to Corporate Training	24/08/2018	438	Venus Victory Academy
Competitive Examinations	10/09/2018	395	Quantech Origin
Meditation	21/07/2018	200	Sri Ramakrishna Seva Samithi
Bridge Courses	25/07/2018	375	SRC Solutions
Remedial Coaching	03/09/2018	403	Bec Staff
Mentoring	11/07/2018	750	Bec Staff

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5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Guidance for competitive examinations career counselling	395	438	24	400

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5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	10

5.2 - Student Progression

5.2.1 - Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
9	400	150	7	350	250

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5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	3	B. Tech.	CE	NIT SURATHKAL	M. TECH
2018	2	B. Tech.	CE	VR Siddhartha Engineering College	M. Tech
2018	1	B. Tech.	EC	JNTU Kakinada	M, .Tech
2018	1	B. Tech.	EC	University of Missouri - Kansas City	M.S
2018	1	B. Tech.	EC	Northwest Missouri State University Maryville, MO, USA	M.S
2018	1	B. Tech.	EC	University of Houston, texas	M.S
2018	1	B. Tech.	EC	Wright state University, USA	M.S
2018	1	B. Tech.	EE	Gayathri vidya parishad	M. Tech.
2018	1	B. Tech.	EE	IBS Bangalore	MBA
2018	1	B. Tech.	EE	KL University	M. Tech.
2018	1	B. Tech.	EE	National Power Training Institute	PGDC-PPE
2018	1	B. Tech.	EI	NATIONAL INSTITUTE OF TECHNOLOGY CALICUT	M.Tech
2018	1	B. Tech.	EI	Vellore Institute of Technology	M.Tech
2018	1	B. Tech.	EI	Vignan's Foundation for Science and Technology	M.Tech
2018	1	B. Tech.	IT	Amrith University, Coimbatore	M. Tech.
2018	1	B. Tech.	IT	ICFAI Business School, Bangalore	PGPM
2018	1	B. Tech.	MECH	SAPIENZA UNIVERSITY DI ROMA	MS
2018	1	B. Tech.	MECH	De Montfort University	MS
2018	2	Diploma	CIVIL	BAPATLA ENGINEERING COLLEGE BAPATLA	B-TECH
2019	2	B.Tech	IT	IIIT Hyderabad	MSIT
2018	1	Diploma	EEE	St.Anns college, Chirala	B. TECH
2018	1	Diploma	EEE	Vignan's LARA ,Guntur	B. TECH
2018	1	Diploma	EEE	VVIT, Nambur	B. TECH
2018	5	Diploma	MECH	BAPATLA ENGINEERING COLLEGE	B. TECH
2018	1	Diploma	CIVIL	CHALAPATHAI INSTITUTE OF TECHNOLOGY	B-TECH
2018	1	Diploma	CIVIL	CHINTHALAPUDI COLLEGE OF ENGINEERING & TECHNOLOGY	B-TECH
2018	1	Diploma	CIVIL	CHIRALA ENGE. COLLEGE	B-TECH
2018	1	Diploma	CIVIL	GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY, KOVUR	B-TECH
2018	1	Diploma	CIVIL	KALLAM HARINADH INSTITUTE OF TECHNOLOGY	B-TECH
2018	2	Diploma	CIVIL	MALINENI PERUMALLU ENGINEERING COLLEGE	B-TECH
2018	2	Diploma	CIVIL	NARASARAOPET ENGINEERING COLLEGE	B-TECH

2018	2	Diploma	CIVIL	NEDURUMALLI BALAKRISHNA REDDY INSTITUTE OF SCIENCE AND TECHNOLOGY	B-TECH
2018	1	Diploma	CIVIL	SAVEETHA SCHOOL OF ENGINEERING	B-TECH
2018	2	Diploma	CIVIL	ST. ANNS COLLEGE OF ENGG. & TECHNOLOGY	B-TECH
2018	1	Diploma	CIVIL	VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY	B-TECH
2018	5	Diploma	ECE	BAPATLA ENGINEERING COLLEGE, BAPATLA	B-TECH
2018	1	Diploma	ECE	GUNTUR ENGINEERING COLLEGE, GUNTUR	B-TECH
2018	1	Diploma	ECE	RVR&JC, GUNTUR	B-TECH
2018	10	Diploma	ECE	ST.ANNS ENGINEERING COLLEGE, CHIRALA	B-TECH
2018	1	Diploma	ECE	VVIT, GUNTUR	B-TECH
2018	5	Diploma	EEE	Bapatla Engineering college, Bapatla	B. TECH
2018	3	Diploma	EEE	PACE Inst of Technology, Ongole	B. TECH
2018	1	Diploma	EEE	QIS Ongole	B. TECH
2018	2	Diploma	EEE	RVR & JC college, Guntur	B. TECH
2018	1	Diploma	MECH	BHARAT INSTITUTE OF SCIENCE AND TECHNOLOGY	B. TECH
2018	1	Diploma	MECH	DHANEKULA INSTITUTE OF ENGINEERING AND TECHNOLOGY	B. TECH
2018	2	Diploma	MECH	NARASARAOPETA ENGINEERING COLLEGE	B. TECH
2018	2	Diploma	MECH	PARUL UNIVERSITY	B. TECH
2018	1	Diploma	MECH	QIS COLLEGE OF ENGINEERING AND TECHNOLOGY	B. TECH
2018	1	Diploma	MECH	SREE VAHINI INSTITUTE OF SCIENCE AND TECHNOLOGY	B. TECH
2018	1	Diploma	MECH	SRKR ENGINEERING COLLEGE	B. TECH
2018	8	Diploma	MECH	ST.ANNS COLLEGE OF ENGINEERING AND TECHNOLOGY	B. TECH
2018	2	Diploma	MECH	VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY	B. TECH
2018	3	Diploma	MECH	VIGAN'S LARA INSTITUTE OF TECHNOLOGY AND SCIENCE	B. TECH
2018	1	Diploma	MECH	VNR COLLEGE OF ENGINEERING	B. TECH

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5.2.3 - Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	25
CAT	1
GRE	4
TOFEL	1
Any Other	9

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5.2.4 - Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Hardwarer Model Design	Department	4
Model Making	Department	72

ExQuiz Me	Institute	90
Tricky Circuits	Institute	98
Mind Rush	Institute	71
Spot EventI	Institute	28
Spot EventII	Institute	46
Circuit Debugging and Circuit Designing	Institute	30
Simulation of networks	Institute	45
Reaveal the Hidden	Institute	120
Guess the Picture	Institute	115
Circuits	Institute	20
Spot Event	Institute	16
Model Making	Institute	24
Auto CAD	Institute	22
Workshop	Institute	48
Group Discussion	Institute	45
Innovative Idea Presentation	Institute	43
ROBO RACE	Institute	5
Innovative Project Experiment	Institute	3
FASTEST AUTO CAD	Institute	9
IC Engine Assembly/Desembly	Institute	10
Industry Problem Soving	Institute	10
Chemical Detective	Institute	6
Volleyball	Institute	180
Kabaddi	Institute	120
Bectagon	Institute	4560
Cultural events	Institute	400
Software Contest	Department	56
Group Discussion	Department	121
Technical Quiz	Department	145
Paper Presentation	Department	111
Technical Quiz	Institute	348
Paper Presentation	Institute	285
Blind Coding	Institute	30
Polyglot	Institute	20
Context switching	Institute	2
Minute To Win It	Institute	2
Mobile App Dovelopment	Institute	8

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5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	1st Prize	National	0	1	Y17AIT442	K.Alekya
2018	1st Prize	National	0	1	Y15AIT411	B. Vamsi Krishna
2018	2nd Prize	National	0	1	Y17AIT414	B.Usha Sri
2018	1st Prize	National	0	1	Y16AIT410	A Naga Vineetha
2018	1st Prize	National	0	1	Y16AIT458	Kunnam Venkatarami Reddy
2018	1st Prize	National	0	1	Y15AIT490	T Maha Lakshmi
2018	2nd Prize	National	1	0	Y16ACE404	A. Venkatesh
2018	2nd Prize	National	0	1	L18ACE537	B. Chandrasekar
2018	2nd Prize	National	0	1	L18ACE537	B. Chandrasekar
2018	1st Prize	National	1	0	Y14AEE507	P MURALI KRISHNA
2018	2nd Prize	National	2	0	Y15AEE404	A Yeswanth
2018	2nd Prize	National	2	0	Y15AEE406	CH.ANJINI KUMAR
2018	1st Prize	National	1	0	Y15AEE406	CH.ANJINI KUMAR
2018	1st Prize	National	3	0	Y17AEE464	P Anand Babu
2018	1st Prize	National	1	0	L17AEE522	G Venu Gopal
2018	1st Prize	National	0	1	L15AEE598	K JAGADEESH
2018	2nd Prize	National	1	0	Y16ACE404	A. Venkatesh
2018	2nd Prize	National	0	2	L18ACE537	B. Chandrasekar
2018	2nd Prize	National	1	0	Y17ACE453	B. Durga Prasada Rao
2018	1st Prize	National	0	3	L16AME583	A. Harisankar
2018	1st Prize	National	0	2	Y15AME544	V.D. Vinayakumar
2018	1st Prize	National	0	2	L17AME539	E. Saibhargav
2018	1st Prize	National	0	1	L17AME552	M.Md. Azeez

5.3.2 - Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

5.3.2 Activity of Student Council representation of students on academic administrative bodies/committees of the institution (maximum 500 words)

Response: Bapatla Engineering College is always aiming to encourage the inherent talents of students in various fields. Different committees are constituted to implement this ambition. Every committee will have senior faculty members as staff coordinators and some active students are taken as student coordinators. Other students become the members of the committee on voluntary basis. Under the guidance of the staff coordinators and the support given by the principal, the student coordinators conduct the events successfully. This type of training to the students enables them to exhibit and develop their leadership qualities and organizing capacities. Many committees of various activities are formed in which students take active role as student coordinators and discharge their duties effectively. For all these activities, necessary funds are provided by the Management along with their encouragement. Brief information of these committees is given below. i) CCA (Centre for Creative Arts): CCA is a committee which encourages the creative talents which are hidden in the students. It has four main cultural activities Arts, Dance, Dramatic and Singing. ii) AWAAZ: Awaaz is a committee which is intended to give a common platform to exhibit the elite skills of the students in oratory and communication. This helps to drive away the stage fear in the students. Many events are organized regularly by this committee. iii) SPORTS AND GAMES COMMITTEE: This committee encourages the students to participate in sports and games which improve the general health. They also develop the sportive spirit among the students. This committee organizes sports and games both outdoor and indoor. iv) ANTIRAGGING COMMITTEE: The anti ragging committee is constituted in the college to prevent the evil custom of student's community. It creates awareness in the students regarding the negative aspects of ragging. It tries it's level best to prevent the ragging inside and outside of the college. v) SAC (Suryodaya Society for Awakening Community): SAC is a committee of the students which renders it's services for the welfare of the society. Special service to orphans, prevention of child labour, blood donation and bringing awareness in village farmers are some of the salient features of SAC. vi) NCC and NSS: The representatives of NCC and NSS extend their cooperation in maintaining discipline in the meetings organized by the college on the campus

including the national festivals. They also participate in Swachabharat, Clean and Green programs. vii) BECTAGON: Bectagon is a techno, cultural and sports festival of the college which is organized by the student coordinators. It conducts various competitions in technical events, extra and cocircular activities at the national level. In addition to the above committees, the student coordinators of different departmental committees actively participate in organizing the workshops, seminars, conferences, external guest lecturers, symposiums and publishing magazines. They also celebrate Independence Day, Republic Day, Engineers Day, National Science Day, National Yoga Day etc.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

The following members were elected as executive committee for Bapatla Engineering College Alumni Association in the Alumni Meet 20819 was held on 12/01/2019. M Gagan Kumar, President, P Srinivasa Rao, VicePresident, Ch Kiran, Secretary, P Jayaprakash, Joint Secretary, K Madhu Kiran, Treasurer, and the members are G Venkata Krishna, G K Kishore Babu, T Yashwanth, and Sk Sulaiman. Alumni association is yet to be registered. • The mission of the alumni association is (1) Advance BEC by promoting alumni relationships, (2) Developing commitment among students and (3) enabling student-alumni interactions. • This mission is brought to life through events and programs such as maintaining alumni website and social media pages, maintaining alumni database, publishing newsletter, encouraging alumni visits to campus, helping alumni with Collegerelated activities, providing job portal for alumni, encouraging giving back by alumni, donations, lectures, sponsorships, mentoring, internships, placement, holding alumni reunions, recognizing exceptional alumni through awards. • The alumni contribute to the college through many ways. These include: Alumni are encouraged to give back to the College through various means. • Educational scholarships have been provided by alumni. Students who travel abroad are offered advice and help by alumni. • A number of alumni have visited the campus and given lectures to students both on technical and general topics. • 20 year reunion (19941998) and 30 year reunion (19841988) events were organised in the month of July2018. Financial Contributions: Alumni of 19841988 Batch donated an amount of 12.5 Lakhs to provide scholarships for meritorious and economically backward students of BEC through "Merit and Alumni Scholarship"

5.4.2 - No. of registered Alumni:

258

5.4.3 - Alumni contribution during the year (in Rupees) :

1250000

5.4.4 - Meetings/activities organized by Alumni Association :

5

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization: Institute has a mechanism for delegating authority and providing operational autonomy to all the functionaries to work towards decentralized governance system. The Governing Body delegates all the academic and operational decisions based on policy to the Principal, HODs and the standing committees in order to fulfill the vision and mission of the institute. They work according to the statutes and Regulations of the College. . Principal is the Chief Executive Officer of the College and is empowered to take daytoday academic and discipline decisions in consultation with the Heads of the Department. Heads of the Department are empowered to take decisions regarding work distribution, schedules, cocurricular activities in the Department and the monitoring and discipline of the students and staff of the Department. They should bring staff issues to the notice of the principal and take approval wherever necessary. Standing Committees are formed for specific functions and are empowered to plan and organize or monitor the activities as per the objectives of the Committee. For example, College Disciplinary Committee monitors the discipline among students and take necessary actions as empowered. The Student Activities Committee plans extracurricular events, and organizes them. The Committee is empowered to scrutinize the content and also the participants. Faculty members and staff are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop Leadership skills by being in charge of various academic, cocurricular, and extracurricular activities. They are given authority to conduct industrial tours and to have tieup with industry experts and appointed as conveners for organizing seminars/workshops/conferences/FDPs.

Participative management: The institute promotes a culture of participative management by involving the staff and students in various activities. At the Institute level, the Heads of the Department are part of the decision making as the decisions are made by the HODs Committee for which the Principal is the Chairperson. At the Department level, all the faculty members are part of the decision making as the decisions are made in the Department Committee and technical and administrative staff are involved staff whenever necessary. The Standing Committees make decisions

involving all the members of the Committee including student members. Both students and faculty/staff have freedom to express themselves of any suggestions to improve the excellence in any aspect of the Institute.

6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

6.2 - Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Our Curriculum Development strategy seeks to update the curriculum based on the needs of the society and paradigms and technologies developed from time to time. Therefore, curriculum development is a dynamics process. It is twofold. One, Annual review of the Curriculum. It generally does not change the curriculum structure but the syllabus of a particular subject may be modified. A new elective may be added if found necessary as the four year cycle of These changes are based on the teacher experiences and the feedback from stakeholders. The second is the comprehensive review of the curriculum including its structure. It is complete overhaul based the benchmarking, feedback from stakeholders, etc.
Teaching and Learning	Teaching Learning Strategy of the Bapatla Engineering College is to assure the quality of learning of the students to the stakeholders. It includes the preparations stage to the delivery as well as evaluation stages, that is, the whole cycle of the teaching Learning Process. The College understands that Quality is assured only when monitoring and review happens. Therefore, it is teaching Learning Process, it has incorporated the review at every stage, such as peer review of ILOs and Course Plans, Assessment instruments, final Exam answer scripts by both internal and external members. Class Coordination Committees, and the Academic monitoring teams regularly monitor and verify the coverage of the syllabus, delivery issues, absenteeism, assessment, etc. Students are mentored by the faculty members. Underperforming students are identified and the information is communicated to the parents by registered post, SMS and by phone. Remedial classes are conducted for the underperformers. Assessment of learning process includes continuous evaluation of the student through the assignments, midterm examination. Assessment methods are identified in the beginning of the semester as part of the course plan and communicated to all the students.
Examination and Evaluation	The evaluation process in the examination systems is transparent. Scheme of valuation of Semester End Examination (SEE) is displayed on the college website. After evaluation, SEE scripts are given to all the students for verification. No revaluation fee is collected from the students. Examination scheduling is prepared prior and subsequently informed to all the students in the class rooms and the information is kept on the website. Continuous evaluation is done through various assessment methods which are known under AAT (Alternate Assessment Tools), such as Quizzes, open book exam, online exam, ake home assignments, seminar, miniproject. The students are allowed to verify the evaluation by distributing the scripts in the class rooms. They are apprised about the mistakes committed in the examination.
Research and Development	The Research Strategy of the College identifies the strategic research goals and the resources and actions required to achieve the stated goals. The strategic goals for research, stated below, and the activities designed to achieve those goals, serve to give effect to the Research Mission statement and the concomitant core value. Strategic Research Goals • Encourage faculty, staff and students to quality and useful research • Create a stateofthe art research centers • Develop collaborative research on the contemporary local and global issues. • Maintain and enhance the quality of research undertaken. • Enhance the institutional research profile. • Encourage, manage and structure the external and internal funding for research. • Support national, regional and industryspecific research and development • Maximize the impact and international recognition of BEC research. • Commercialize on BEC intellectual property.
Library, ICT and Physical Infrastructure / Instrumentation	The College Library primary goals are to provide the required resources, such as books, journals, video lectures, etc. to the users and to information services through mails, to provide them an opportunity to gain very good user experiences. It is therefore well equipped with all the text books specified in the curriculum. In addition to the text books, various reference books are also provided. To improve the user experience further, one period per week is allocated in the time table for exclusively library work. Library committee monitors its functioning with regular meetings. The books identified and requested by the Departments are procured with the budget allocated. Library is fully automated in its processes using SOUL software and provides OPAC services. It is planned to use CAMU software for further customization in the college. Recent infrastructural facilities provided include Intercom system and LCD projectors in all the departments. WiFi access points are being provided at various places in the campus. All the departments are provided with the required physical infrastructure, chairs, tables, printers, Xerox machines etc. as per the need and requirements identified by the concerned Head of the department. The laboratories of the Department are also updated.
Human Resource	The College management perceives that the faculty members and staff are the backbone of the College. Its quality depends on the

Management	<p>quality of the persons placed in different positions. Therefore, it gives utmost importance for their development and facilitates the improvement of their knowledge and skills. Several staff and faculty development programs are organized by the college involving experts from industry and reputed institutes like IITs as resource persons. They are also encouraged to participate in the short term Courses/workshops organized by the reputed organizations to further their interaction with faculty in other institutes to know the practices followed by them in academics and research. The management also perceives that research is essential to make the faculty members uptodate in their knowledge of the subjects of their discipline. Therefore, it provides all the resources required for research as well as encourages sharing their research findings through publications and conferences. It also incorporated awards and rewards to motivate them for research and development.</p>
Industry Interaction / Collaboration	<p>Bapatla Engineering College Management considers the industry interaction is essential not only to provide real life experiences to the students in their technical field, as well as to the development of faculty and curriculum. A dedicated cell, Industry Institution Interaction Cell, is established for this purpose. The College has been taking proactive steps to develop interaction with industries with winwin situation. It has Memorandum of Understanding with ten companies and another three are in the pipeline. Their services are utilized to provide value added services to students in specific technologies like Robotics, Artificial Intelligence, IoT, etc. Students are getting engaged in the live projects by the industries and some of them working for a semester in the industry. Some of them is leading to a collaborative research project with the active involvement of the faculty members. As part of this many students are doing internships in the vacation period.</p>
Admission of Students	<p>Admission of students is through AP EAMCET counseling for all the UG Courses. However, B category seats are filled up by the college as per the norms of APSCE where in merit is given priority. For M. Tech. courses, AP PGECET is the basis. MCA seats are filled through ICET. All the M. Sc. courses admissions are within the purview of Acharya Nagarjuna University norms and APPGECET is the criterion for selection.</p>

6.2.2 - Implementation of e-governance in areas of operations:

E-governance area	Details
Student Admission and Support	Schedule and issue Applications, Online applications and collection of application fees, Record applications, Student Admission Student Record: Student record maintenance, Transfers/Termination, Automatically updated academic records
Examination	Maintenance of Examinations, Results entry, Mark ineligible students, Academic Performance Reports, Invigilation and Seat Allocation Reports, hall ticket generation, seat allocation, etc.,
Planning and Development	All the planning activities are done through CAMU software. It has several modules including scope for Outcome based education, choice based credit system planning, GPS tracking to monitor student bus status, various modules in the examination section, transport planning, feedback from the students, its summarization, hostel management, visitor management, attendance summarization, time table preparation, class allocation, etc.
Administration	Staff record maintenance, Printing of statutory staff reports, Resignations, Staff to staff communication on tablets using SMS and Android App messages, Mass communication through SMS, Mass communication through Android App, Mass communication through email, Mass communication from an Android App on mobile devices, Voice Calls. It also includes transport, hostel, payments, leave management and inventory etc.,
Finance and Accounts	Automatic generation of bills using billing policies, Receipts, Credit Notes cancellations, Integration with Tally SAP, Outstanding bills and cash collection tracking, Student Accounts View

6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	T Chiranjeevi	Sustainable Roadways - Design and Construction	Bapatla Engineering College	7450
2018	Mr. M. Ganesh Babu	Faculty Orientation Program on Advanced Condition monitoring methods for power Equipment	Bapatla Engineering College	2740
2018	Mr. M. D. Prasada Rao	Workshopn on Application of Aritificial Intelligence and soft computing techniques to electrical engineering	Bapatla Engineering College	2100

2018	Dr. N.Karthik	Workshopn on Industry conference 4.0	Bapatla Engineering College	4540
2018	Dr. J.Ravindra	First international conference on computational and Intelligent techniques for automation of engineering systems	Bapatla Engineering College	6670
2018	Dr. J.Ravindra	Workshopn on Power Quality Analysis and Improvement techniques	Bapatla Engineering College	1750
2018	Ms. D. Nagalakshmi	Workshopn on Industrial Practices in Power system Engineering	Bapatla Engineering College	1540
2018	Ms. M. Nagendra	Workshopn on Industrial Practices in Power system Engineering	Bapatla Engineering College	1540
2018	Mr. P. Karimulla	Workshopn on Recent Trends in Power Systems	Bapatla Engineering College	4500
2018	Mr. M. Suresh Babu	Workshopn on Hands on phasor measurements units (PMU)	Bapatla Engineering College	7930
2018	Mr. K. Rajendra	Workshopn on Industrial application of electrical engineering	Bapatla Engineering College	4100
2018	Mr. P. Sampath Kumar	International conference on IEEE IICPE 2018	Bapatla Engineering College	10000
2018	Mr. B. Praveen Kumar	Workshop on Internet of Things	Bapatla Engineering College	10000
2019	Mr. Ch.Hari Prasad	Applications of Digital signal processing Technices, for power electronics systems (1318 May)	Bapatla Engineering College	3041
2019	Dr. J.Ravindra	Five day workshop on Smart Techniques in power system	Bapatla Engineering College	5100
2019	Mr. N.Bala Krishna	A Six days short term program on Advanced trands in Renewable sources of Energy	AICTE	0
2019	Mr. I. V. Raghavendra	FDP Program on Applications of Digital signal processing Techniques for power electronics sysyems	Bapatla Engineering College	3435
2018	Shaik Mahaboob subhani.	international conference in Mathematical Modeling and scientific computing ICMMS2018	Bapatla Engineering College	10032
2018	T.Krishna Chaitanya	international conference in Mathematical Modeling and scientific computing ICMMS2018	Bapatla Engineering College	10032
2018	S. Ramesh	FDP on Xilinx soC: FPGA Based Design at NIT Tiruchirapalli	Bapatla Engineering College	4950
2018	Dr B.Chandra Mohan	international conference on Computing , Communication and networking technologies (ICCNT18)	Bapatla Engineering College	10000
2018	T. Praveen Kumar,	CCNA CISCO Training programme	Bapatla Engineering College	4000
2018	T. Praveen Kumar,	MIS Training programme	Bapatla Engineering College	525
2019	T.Krishna Chaitanya	workshop on Pattern recognition and computational intelligency at Trichy	Bapatla Engineering College	3786
2019	Dr B.Chandra Mohan	workshop on Pattern recognition and computational intelligency at Trichy	Bapatla Engineering College	3786
2019	Dr P.Surendra Kumar	two days national seminar on Space law and small satellite business	Bapatla Engineering College	1300

2019	D.Suneel Varma	8th IEEE international conference on Communication and Signal Processing 2019	Bapatla Engineering College	9000
2019	Sd.Imran Basha	FDP organized by EICT Academy, NIT, Warangal	Bapatla Engineering College	4235
2019	G.Mahesh	FDP organized by EICT Academy, NIT, Warangal	Bapatla Engineering College	4582
2019	P.V.Reddy	FDP on Metamaterial applications and evolutionery technics organised by NIT	Bapatla Engineering College	3335
2019	Dr B.Chandra Mohan	workshop on FDP on deep learning unfolded	Bapatla Engineering College	9010
2019	P.Ravi	FDP on Artificial intelllignce and machine learning at NIT warangal	Bapatla Engineering College	4115
2019	Y.Sruthi	national workshop on AI ML in VITAP	Bapatla Engineering College	1800
2019	Sk.Idrish	national workshop on AI ML in VITAP	Bapatla Engineering College	1800
2019	Dr. S. Rama Krishna	1 Day preconference workshop on Recent Trends in Computational Intelligence Security	Bapatla Engineering College	8000
2018	Ch. Lakshmi Srinivas	Awareness workshop for smart india hackathon 2018	Bapatla Engineering College	4200
2018	S. Krugon	CH.No. Being the amount paid to S. Krugon towards TA DA Registration fee for attending international conference at gokaraju rangaraju institute of engineering and technology	Bapatla Engineering College	9200
2018	Mr. S. Subrahmanyam	Faculty Orientation Program on Advanced Condition monitoring methods for power Equipment	Bapatla Engineering College	2740
2018	M. Venkateswara Rao	CH.No. Being the amount paid to M.Venkateswara ra, Mech towards TA DA Registration fee for attending international conference	Bapatla Engineering College	10350
2018	P. Umamaheswara Rao	CH.No. 890639 Being the amount paid to P. Umamaheswara rao, Mech towards TA for going to international conference on Advanced Manufacturing and automation (INCAMA2018)	Bapatla Engineering College	960
2018	K.Ravi Kumar	Introduction to Building Information Modelling (BIM) applications in construction	Bapatla Engineering College	20480
2018	D. Vijay Praveen	CH.No. 890640 Being the amount paid to D. Vijay Praveen, Mech towards TA for going to international conference on Advanced Manufacturing and automation (INCAMA2018)	Bapatla Engineering College	960
2018	P. Umamaheswara Rao	International Conference ROSMA	Bapatla Engineering College	10340
2018	Dr. B. Ravi sankar	AIMTDR2018	Bapatla Engineering College	7900
2018	K. Rajasekhar Babu	ICPCM 2018	Bapatla Engineering College	9200
2019	Dr. M. Venkatewara Rao	ICRACM2019	Bapatla Engineering College	10000
2018	S. Vijay	ICPCM 2018	Bapatla Engineering College	9200
2019	Dr. B. Ravi sankar	ICRACM2019	Bapatla Engineering College	10000
2019	D. Vijay Praveen	ICRAMMES2019	Bapatla Engineering College	5900

2019	M. Subramanyam	ICRAMMES2019	Bapatla Engineering College	5900
2019	P. Umamaheswara Rao	ICCMM2019	Bapatla Engineering College	10000
2019	V. Srinivasulu	R Programming VIT,AP	Bapatla Engineering College	2700
2018	S.A. Rahim	Soft skills and Personality Development	Bapatla Engineering College	2750
2019	S. Krugon	Developing Scientific survival skills for young scientist with focus on writing quality papers	Bapatla Engineering College	2350
2018	G. Raghunath Reddy	ICAME2018	Bapatla Engineering College	3700
2019	K. Seshagiri rao	ETME2019	Bapatla Engineering College	3250
2019	M. Subramanyam	ICCMM2019	Bapatla Engineering College	7000
2019	S. Vijay	ICMPC 2019	Bapatla Engineering College	9800
2019	K. Rajasekhar Babu	ICT IN Advanced Manufacturing Engineering	Bapatla Engineering College	3600
2019	M. Pardhasaradhi	ICT IN Advanced Manufacturing Engineering	Bapatla Engineering College	3600
2019	K. Seshagiri rao	ISERMAT2019	Bapatla Engineering College	10010
2018	N.P.N.Moorthy	Rehabilitation of concrete structures	Bapatla Engineering College	1000
2018	T.santhi sagar	Introduction to smart materials with energy harvesting applications	Bapatla Engineering College	14050
2019	Dr.M.V.SAMBASIVA RAO	63rd DAE Solid State Physics Symposium	Bapatla Engineering College	20000
2018	D.NIRANJAN BABU	Industry 4.0 conference	Bapatla Engineering College	4540
2019	J.VENKATALAKSHMI	Machine Learning Applications in Signal Processing	Bapatla Engineering College	2500
2018	D.NIRANJAN BABU	Workshop on Natural Academic Depository	Bapatla Engineering College	3597
2019	D.NIRANJAN BABU	Meta material applications and evolutionary techniques	Bapatla Engineering College	3500
2018	Mr. P.Sampath Kumar	2nd international conference on Nano science Engineering Applications2018,	Bapatla Engineering College	6142
2018	Mrs. K.Kamala Devi	Workshopn on Green energy and smart grids	Bapatla Engineering College	1000
2018	Mr. P.Sampath Kumar	Faculty Orientation Program on Power Quality Analysis and Improvement techniques	Bapatla Engineering College	1750
2018	Mr. I. V. Raghavendra	Workshopn on Modeling and simulation of electrical Power systems using ETAP and PSCAD	Bapatla Engineering College	9600

2018	Mr. N.Bala Krishna	Workshopn on Modeling and simulation of electrical Power systems using ETAP and PSCAD	Bapatla Engineering College	9600
2019	Dr.P.V. Saradhi	Hands on 2day workshop on statistical data analysis using R	Bapatla Engineering College	2537
2018	N. Karunakar	Hands on 2day workshop on statistical data analysis using R	Bapatla Engineering College	2237
2018	Dr.N.B. Rafi	Hands on 2day workshop on statistical data analysis using R	Bapatla Engineering College	2237
2018	M.Srujana	Hands on 2day workshop on statistical data analysis using R	Bapatla Engineering College	2237
2019	Dr P Asha Madhavi	International Conference on "Recent Trends in Teaching Literature and English Language Teaching	Bapatla Engineering College	7000
2019	Dr PVN Malleswara Rao	International Conference onVoice Unheard: Indigenou and Tribal Literature in English and English Translation	Bapatla Engineering College	5500
2019	K Venkata Lakshmi	National Workshop on Current Trends in Teaching Methods and Strategies in Higher Education	Bapatla Engineering College	1850
2018	Dr SK. Shabreen Sulthana	International conference NextGen Learners: New Demands, New Responces	Bapatla Engineering College	3200
2018	N Sudheer Kimar	national seminar on language of literature and culture	Bapatla Engineering College	2000
2018	Mr. N.Kiran Kumar	FDP on IT Essentials at Trident Academy of Creative Technology (TACT) jointly organized by SBTET, A.P and Cisco Network Academy.	Bapatla Engineering College	1600
2018	Mr. B.Sateesh	FDP on IT Essentials at Trident Academy of Creative Technology (TACT) jointly organized by SBTET, A.P and Cisco Network Academy.	Bapatla Engineering College	1600

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6.3.2 - Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Guest Lecture On Prevention of Zone3 MalOperation due to load Encroachment using Synchrophasors,on 06/08/2018 ,Dr.M.Jaya Bharath Reddy NIT Tiruchy		08/06/2018	08/06/2018	29	0
2019	Workshop on wireless networks using NS3		29/03/2019	30/03/2019	62	0
2018	NON TEACHING	5 Day workshop on Office Automation	03/05/2018	07/05/2018	0	25
2019	Emerging Trends in English Language Teaching for Engineering Graduates		22/03/2019	23/03/2019	70	0
2018	3 Day Short Term Training Program on Office Automation		08/01/2018	10/01/2018	61	0
2018	3 Day FDP on Machine Learning using Python		15/11/2018	17/11/2018	60	0
2019	3 Day FDP on Enterprise Application Development using SPRING BOOT		01/04/2019	03/04/2019	38	0
2018	A two day workshop on Recent Trends in Pavement Engineering		16/02/2018	17/02/2018	18	0
2018	A one day workshop on Repair, Rehabilitation and Retrofitting of Concrete Stuctures		01/12/2018	01/12/2018	16	0

2018	A three day workshop on BIM	18/12/2018	20/12/2018	18	0
2019	Carbon based Nanomaterials and their revolutioned applications	15/03/2019	15/03/2019	20	0
2019	FDP on Methodologies for generating revenue through research with Patents and IPR	30/01/2019	30/01/2019	110	0
2018	A Two Day Workshop on Computational Tools for Research in Engineering and Sciences	30/11/2018	01/12/2018	24	0
2018	Two Day Workshop on Intellectual Property and Innovation Management	31/08/2018	01/09/2018	75	0
2018	A two day Faculty Training Programme on LabVIEW professional software and Power electronics ELVIS	27/07/2018	28/07/2018	30	0
2018	How to design and develop an embedded application	18/08/2018	18/08/2018	30	0
2018	Feed Back Controllers for renewable generation in Micro Grid	27/09/2018	29/09/2018	30	0
2018	Work shop on 5 days Power Quality Issues in Electrical Systems Connected to Smart Grid	17/12/2018	21/12/2018	29	0
2018	Guest Lecture On Inner Engineering For Young Engineers (1st DEC) ,Dr.P.Subbarao	30/11/2018	30/11/2018	29	0
2018	Guest Lecture On Design of Electrical and Extra low voltage system for commercial buildings on 08/12/2018,Sri G Venu gopalarao	12/08/2018	12/08/2018	29	0
2018	Guest Lecture On Stress Management,Motivation and ON Leadership Qualities on 28/11/2018,Mr.K.Srinivasa prasad,SFC/CW,SCR,SECUNDERABAD	28/11/2018	28/11/2018	29	0

6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
One day Workshop on SCILAB	1	04/05/2019	04/05/2019	1
Two Day Workshop on Physics of Fluid, Methods, and Applications	1	01/03/2019	02/03/2019	2
A Three Day Faculty Development Program on Machine Learning using Python",	1	15/11/2018	17/11/2018	3
HandsOn 2Day Workshop On Statistical data Analysis using R,	4	08/12/2018	09/12/2018	2
Work shop on Intellectual Property and innovation Management,	2	31/08/2018	01/09/2018	2
National Seminar on Recent Developments in Mathematics and its Applications2018 (RDMA2018) ,	2	21/12/2018	22/12/2018	2
Challenges and opportunities in Chemistry	2	29/11/2018	30/11/2018	2
63rd DAE Solid State Physics Symposium	1	18/12/2018	22/12/2018	5
Meta material applications and evolutionary techniques	1	22/04/2018	27/04/2018	6
Machine Learning using Python	3	15/11/2018	17/11/2018	3
Intellectual property and Innovation Management	6	31/08/2018	01/09/2018	2
Methodologies for generating revenue through research with patents IPR	1	30/01/2019	30/01/2019	1
Power Quality Analysis and Improvement techniques	2	18/06/2018	23/06/2018	6
Advanced Condition monitoring methods for power Equipment	2	09/07/2018	14/07/2018	6
Green energy and smart grids	1	20/07/2018	21/07/2018	2
Industrial Application of electrical engineering	2	19/07/2018	21/07/2018	3
Modeling and simulation of electrical Power systems using ETAP and PSCAD	2	06/08/2018	10/08/2018	5
Application of Aritificial Intelligence and soft computing techniques to electrical engineering	1	13/11/2018	17/11/2018	5
Industrial Practices in Power system Engineering	2	30/11/2018	01/12/2018	2
Hands on phasor measurements units (PMU)	1	12/07/2018	12/07/2018	1

Industry conference 4.0	1	17/12/2018	18/12/2018	2
Recent Trends in Power Systems	1	18/11/2018	19/11/2018	2
A Six days short term program on Advanced trends in Renewable sources of Energy	1	24/06/2018	29/06/2018	6
Modeling and analysis of just in time production systems	1	18/06/2018	23/06/2018	6
Short Term Course On Advanced course on Engine Combustion, Diagnostics, Emissions control and Emerging Fuels, IIT Kanpur	1	03/08/2018	07/08/2018	5
Intellectual Property Innovation Management	2	31/08/2018	01/09/2018	2
3 Day FDP on Enterprise Application Development using SPRING BOOT	31	01/04/2019	03/04/2019	3
FDP on AI and Machine Learning	3	04/06/2018	08/06/2018	5
Workshop on iBootUp IoT Series	1	14/06/2018	16/06/2018	3
Workshop on Intellectual Property and Innovation Management	5	31/08/2018	01/09/2018	2
Machine Learning using Python	10	15/11/2018	17/11/2018	3
Computational Tools For Research in Engineering and Sciences	2	30/11/2018	01/12/2018	2
Methodologies For Generating Revenue Through Research With Patents IPR	9	30/01/2019	30/01/2019	1
Workshop on Live Assisted Workshop on Basics of Python Programming	3	20/08/2018	23/08/2018	3
A Workshop on "Web Development"	4	23/03/2019	24/03/2019	2
Enterprise Application Development using SPRING BOOT	1	06/07/2018	07/07/2018	2
Introduction to Building Information Modelling (BIM) applications in construction	1	24/07/2018	05/08/2018	10
Intellectual Property and Innovation Management	12	31/08/2018	01/09/2018	2
Sustainable Aspects of Geotechnical and Transportation Engineering	1	21/09/2018	21/09/2018	1
Sustainable Roadways - Design and Construction	1	24/09/2018	25/09/2018	2
Repair, Rehabilitation and Retrofitting of Concrete Structures	30	01/12/2018	01/12/2018	1
Building Information Modeling	33	18/12/2018	20/12/2018	3
International Conference on computing Sciences (ICCS 20182019)	1	16/11/2018	17/11/2018	2
Two day Science Academies' Lecture Workshop on Fluid Mechanics	1	04/10/2018	05/10/2018	2
Work shop on Intellectual Property and innovation Management,	2	31/08/2018	01/09/2018	2
Emerging Trends in English Language Teaching for Engineering Graduates	9	22/03/2019	23/03/2019	2
The Application of Technology for Teaching and Learning of English Language Skills	1	22/12/2018	23/12/2018	2
OneWeek Faculty Development Program on Current Trends in Teaching Methods and Strategies in Higher Education at NIT Warangal, from 28th Jan to 2nd Feb, 2019.	1	28/01/2019	02/02/2019	6
One week faculty development programme on Soft Skills at JNTUA	1	10/12/2018	14/12/2018	5
NBC and Indian Standards: Innovations and Case Studies in Geotechnical Engineering	1	06/07/2018	07/07/2018	2
Three Day Faculty development Program on Machine Learning using Python by Department of Computer Science and Engineering Bapatla Engineering College ,Bapatla	1	15/11/2018	17/11/2018	3
International Conference on Computational Intelligence and Informatics	1	28/12/2018	29/12/2018	2
1 Day preconference workshop on Recent Trends in Computational Intelligence Security	1	27/12/2018	27/12/2018	1
NPTEL Awareness Workshop	1	07/12/2018	07/12/2018	1
3 Day FDP on Machine Learning using Python	31	15/11/2018	17/11/2018	3
Two day workshop on Intellectual Property and Innovative Management BEC Bapatla	2	31/08/2018	01/09/2018	2
Two day workshop on Computational Tools for Research in Engineering and Sciences	3	31/08/2018	01/09/2018	2
Three day FDP on Machine learning using Python BEC Bapatla	2	15/11/2018	17/11/2018	3

Two day Faculty Development Program on Advances in Manufacturing, GEC, Gudlavelluru	1	16/11/2018	17/11/2018	2
Hands on Two day workshop on statistical data analysis using R, VIT, AP	1	08/12/2018	09/12/2018	2
ICT In Advanced manufacturing Engineering, NIT, Warangal	2	27/05/2019	01/06/2019	6
Statistics and Data Analysis for Engineers and Researchers, NIT Warangal	1	27/05/2019	01/06/2019	6
Xilinx SoC: FPGA Based Design	1	30/07/2018	03/08/2018	5
pattern recognition and computational intelligence	2	24/01/2019	25/01/2019	2
INTELLECTUAL PROPERTY AND INNOVATION MANAGEMENT	2	31/08/2018	01/09/2018	2
Workshop on Live Assisted Workshop on Basics of Python Programming	3	20/08/2018	23/08/2018	3
Moodle Learning Management System	1	15/03/2019	15/03/2019	1
Space Law and Small satellite Business	1	14/03/2019	15/03/2019	2
METHODOLOGIES FOR GENERATING REVENUE THROUGH RESEARCH WITH PATENTS IPR	6	30/01/2019	30/01/2019	1
FDP ON DSP,ESD AND IOT	1	11/02/2019	15/02/2019	5
BIO INSPIRED ALGORITHM FOR INTELLIGENT SIGNAL PROCESSING	2	24/04/2019	30/04/2019	7
FDP on EMBEDDED SYSTEMS AND IOT	3	11/02/2019	15/02/2019	5
Latest Technologies in applications of AI and FPGA	1	27/09/2018	27/09/2018	1
Seminar by NVIDIA on Current trends in AI ML and applications	1	28/09/2018	28/09/2018	1
Six day FDP on AI ML	1	29/04/2019	04/05/2019	6
One day Workshop on Moodle Learning System	1	04/03/2019	04/03/2019	1
FDP on Massive MIMO and OFDM Technologies for 5G Networks	1	27/03/2019	30/03/2019	4
FDP on Metamaterial applications and Evolutionary techniques	1	22/04/2019	27/04/2019	6
FDP on Deep Learning unfolded	1	27/05/2019	31/05/2019	5
FDP on Wireless Sensor networks	1	20/06/2019	29/06/2019	10
Workshop on AIML	2	22/06/2019	23/06/2019	2
National symposium on Emerging trends in organic chemistry	3	28/09/2018	29/09/2018	2
National symposium on Challenges and opportunities in chemistry	1	29/11/2018	30/11/2018	2
Workshop on Intellectual property and innovation management	4	31/08/2018	01/09/2018	2

[View File](#)

6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
12	12	1	2

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
1. Employees are covered under EPF. 2. Study, Maternity and Medical leaves are sanctioned for the required staff. 3. Registration fees, Dearness allowance, Travel grants for faculty attending conferences and workshops are provided. 4. Concessional on Transport and Medical facilities for all the staff. 5. Full time Medical facility with qualified Doctor and ambulance is available in the institution. 6. Bank, ATM and	1. Employees are covered under EPF. 2. Study, Maternity and Medical leaves are sanctioned for the required non teaching staff. 3. Registration fees, Dearness allowance, Travel grants for non teaching faculty attending Training Programs are provided. 4. Concessional on Transport and Medical facilities for all the non teaching staff. 5. Full time Medical facility with qualified Doctor and ambulance	1. Insurance provided to all students. 2. Endowment prizes will be awarded to meritorious students. 3. Sponsored for student projects based

post office facilities are available in the campus. 7. Mineral water is available in the campus for all. 8. Car facility along with fuel is provided to the heads of the departments.

is available in the institution. 6. Bank, ATM and post office facilities are available in the campus. 7. Mineral water is available in the campus for all.

on Innovative ideas 4. Provided Hostel facility for girls within the campus

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

Governing Body of our college is responsible for regular internal and external audits. The finance committee proposes every year budget on consulting with each department heads and submits the same to the governing body for approval. This budget is made of different criteria such as laboratory equipment, library expenses, salary payments, building infrastructure and other maintenance. The college has an Internal Finance Committee to examine the budget proposals, receipts, bills and vouchers and supporting documents for the current year. The financial committee after the scrutiny, they may advise concerned departments for any possible improvement. The Financial Accounts were audited by External Auditor under the Income Tax Act. There are no major audit objections. The audited accounts for last five financial years are made available on the college office.

6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Sri Koniki Venkata Krishna Memorial Trust, Prof. T. Venugopala Rao Trust, Sri Uppala Srimannarayana and Smt. Vasundhara Devi Trust, Sri Chivukula Ramanadham Memorial Trust, Sri Nori Gopala Krishna Murti Memorial Trust, Sri Nori Sundari Murti Memorial Trus	79749	Academic Excellence

[View File](#)

6.4.3 - Total corpus fund generated

683639000

6.5 - Internal Quality Assurance System

6.5.1 - Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	IQAC
Administrative	Yes	M/s MASTANAIAH AND Co	Yes	Governing Body

6.5.2 - Activities and support from the Parent - Teacher Association (at least three)

- The Parents are very supportive to the initiatives of the College and maintains contact with the College through the Principal's office as well as class mentors. However, the college doesn't have a registered parentteacher association.
- Each department in the institution conducts Parent Teacher meeting in a semester to obtain the feedback of their Wards to improve the quality of education.
- Mentor meeting is conducted for the students by the individual faculty to ensure the improvement in academics and cocurricular activities.
- Parents are cordially invited for Orientation Programme and Appreciation Ceremony of their wards.

6.5.3 - Development programmes for support staff (at least three)

- Two Week orientation programme for the support staff is held in April 2019. The program includes guest lectures and workshops on motivation and attitude.
- Workshop on Work Life Balance and Stress Management.
- Workshop on Memory Enhancement Techniques.
- Soft Skills training program.
- Workshop on Mathematics Basics.
- Workshop on Microsoft Office for four weeks

6.5.4 - Post Accreditation initiative(s) (mention at least three)

- The institution was accredited with „B" Grade by the NAAC March 03, 5 2015. The College strives hard to sustain and enhance the quality in all spheres for the past five years.
- Increased number of MOUs with industries in each department and good number of activities like training programs were organized in collaboration with the industries. An MoU signed with New Mexico State University, New Mexico, USA for research, and

faculty and student exchange. □ IQAC developed templates to streamline academic and administrative process and contributed to the fixing of benchmark norms in every aspect. Various workshops also conducted to create awareness amongst the faculty members. Special programs designed and implemented for non teaching and supporting staff. □ To provide a high quality teaching and research, the institution has recruited faculty with doctoral qualifications from IITs, NITs and premier institutions. □ Promotion of research was reflected by the quality of publications. Significant strides have happened in the last five years in terms of number and quality of publications. □ There are number of advanced software tools (MATLAB, NI LabVIEW, PSCAD....) have been purchased. □ Modern computers in all the department computer centers and WiFi hotspots at major locations in the campus. □ The use of ICT (information and communication technologies) tools in education and training has become part and parcel of the Teaching learning process. The institution purchase LCD projectors in addition to the existing. Central library equipped with NPTEL Database with digital lab. □ Complete administration and teaching learning process is automated with the software CAMU. □ The examination pattern and promotion criteria to the subsequent level are made more stringent to improve the academic quality of outcome. So that knowledge of the passed out students is better compared to the students coming out from other institutions. Make up test and course repetition are offered to poor students to improve their standards. Question papers are thoroughly scrutinized to improve quality of the paper. Scheme of evaluation and Answer scripts distribution were implemented for to promote transparency of examination and evaluation process.

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	workshop on COURSE OBJECTIVES AND LEARNING OUTCOMES	10/06/2018	10/06/2018	12/06/2018	124
2018	3 Day Short Term Training Program on Office Automation	08/01/2018	08/01/2018	10/01/2018	61
2018	5 Day workshop on Office Automation	03/05/2018	03/05/2018	07/05/2018	25
2019	FDP on Methodologies for generating revenue through research with Patents and IPR	30/01/2019	30/01/2019	30/01/2019	110
2018	Two Day Workshop on Intellectual Property and Innovation Management	31/08/2018	31/08/2018	01/09/2018	75
2018	A Two Day Workshop on Computational Tools for Research in Engineering and Sciences	30/11/2018	30/11/2018	01/12/2018	24

CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
International Womens Day Celebrations	03/08/2019	03/08/2019	968	23

7.1.2 - Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Renewable energy sources: Recently college is exploring various methods for availing the sources of renewable energy to cater to the needs of ever increasing energy requirement. 400 KWP Solar Power Unit was installed and connected to the grid (APGENCO). Thus the institution avails the benefit by the number of units generated through our plant and the balance units are given to the grid thus saving the electrical energy. percentage of power requirement met by the renewable energy sources is 77.65

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2

Provision for lift	Yes	2
Ramp/Rails	Yes	2
Rest Rooms	Yes	2

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	0	1	12/09/2018	1	Blood donations at various hospitals	Hep the needy people of the society	1
2018	0	1	19/09/2018	1	Blood donations at various hospitals	Hep the needy people of the society	1
2018	0	1	26/09/2018	1	Blood donations at various hospitals	Hep the needy people of the society	1
2018	0	1	05/10/2018	1	Blood donations at various hospitals	Hep the needy people of the society	1
2018	0	1	15/11/2018	1	Blood donations at various hospitals	Hep the needy people of the society1	1
2018	0	1	10/07/2018	1	medical camp	awareness program1	90
2018	0	1	07/03/2018	1	donation to the orphanage	charity	20
2018	0	1	07/06/2018	1	motivating students	not attending schools	30
2018	0	1	13/10/2018	1	foudation stone for orphanage	charity	2
2018	0	1	05/08/2018	1	medical camp at bapatla engineering college	medicine distribution	80

7.1.5 - Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Discipline and code of conduct for students	08/06/2018	Students must punctually attend all lectures, practicals, tutorials, assignments, tests, examinations, etc. A student whose attendance and/or progress in the various tests and examinations are not satisfactory and who does not perform the required number of assignments, tutorials and/or practicals are likely to lose their terms. Prolonged absence even on ground of ill health may also lead to loss of terms. Defaulters will not be sent up for Final /University Examinations. The conduct of the students in the classes and in the premises of the college shall be such as will cause no disturbance to teachers, fellow students or other classes.
bec service rules	06/06/2018	The staff should acquaint themselves with the College policies and adhere to them to their best ability. They should perform the duties that are assigned sincerely, diligently and with accountability. They should avail of leave with prior intimation to the extent possible. In case of sudden contingencies, information on their absence should be promptly forwarded to the College Authority. They should perform their duties with honesty and integrity. There should be no falsification of official documents entrusted to them. The staff should show no discrimination on basis of gender, caste or religion. Actions, words,

jokes, or comments based on an individual's sex, race, ethnicity, age, religion, or any other legally protected characteristic are not tolerated.

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
blood donation camp	12/09/2018	19/09/2018	5
medical camp at vedulla palli	10/07/2018	10/07/2018	90
distribution of medicines	08/05/2018	08/05/2018	80

7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Ewaste management: The condemned batteries and damaged computers are disposed through outside agencies. The low configuration computers are donated to Bapatla Public School, Bapatla. Other recyclable Ewaste materials are properly disposed by local vendor. Awareness programs are initiated on Ewaste management. 2. Plantation: Students participate in campaigns like Plantation Drive and awareness against deforestation. The campus has green landscaping of plants and trees, which covers 40 of the area, having varieties of plants and trees which includes Mango, Neem, Coconut, etc. The entire open area has been kept green through heavy foliage of grass, seasonal flowers, and trees and are maintained by horticulture department of the institute. Pedestrian friendly roads covering the breadth and width of the campus have been constructed and are timely maintained. 3. Water conservation: The campus is a zero water discharge campus, which means that no water is discharged outside the campus and all the water is treated and recycled for reuse for horticultural activities. Awareness towards minimizing the wastage of water is spread at regular intervals among the students. Soak pits are dug to dispose off the liquid waste generated in the college. The RO Water Plants are audited every year during the internal audit conducted by the institute. College has an area of 33 acres and 09 blocks, gardens, plantations, play grounds, lawns etc., and being situated in a more than average rainfall region. It is imperative that proper rain harvesting system is installed on the campus.. A comprehensive plan for rainwater harvesting system is being followed and implemented within the campus. Three types of rain harvesting system are installed on the campus. They are Ferrocement tanks, Soak pits and Paver blocks. 4. Energy conservation: The institution has well planned buildings for cross ventilation and lighting to reduce the consumption of electrical energy. All the computer centers are thermally insulated to increase the efficiency of the air conditioners. Planting trees to reduce the AC power consumption in the campus and thus building Ecofriendly atmosphere. For street lighting in the campus LED bulbs are used instead of traditional lights. In order to conserve energy all traditional tube lights are replaced with LED tube lights in a phased manner to save 50 lighting energy. 5. Renewable energy sources: Recently college is exploring various methods for availing the sources of renewable energy to cater to the needs of everincreasing energy requirement. 400 KWP Solar Power Unit was installed and connected to the grid (APGENCO). Thus the institution avails the benefit by the number of units generated through our plant and the balance units are given to the grid thus saving the electrical energy.

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Best Practice - I Distribution of evaluated answer scripts to students for scrutiny: The evaluated semester end examination answer scripts are shown to the students so that the student can check the valuation as per the scheme and the schemes were placed in the college website on week before the distribution of valued scripts to the students. Any deviation of the actual evaluation from the scheme can be reported the subject teacher so that the claims made by the student can be considered and the paper is reevaluated as per the claims without any fee. This is a measure taken as part of the transparency in the evaluation system. Best Practice - II Monitoring of the course delivery: Class coordination committees of each class meet once every month to discuss the status of syllabus coverage, continuous evaluation, discipline problems, if any, nonperforming students, students with chronic absenteeism etc. They also take up corrective actions and these are reviewed by the department committee and also by the academic monitoring team.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.becbapatla.ac.in/pages/best-practices>

7.3 - Institutional Distinctiveness

7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

stitutionInteraction Cell (IIIC): IIIC was established to look at purposeful interaction between Industry and institution. The Activities under IIIC are arranging the Guest Lectures, Interactive workshops, conferences, seminars, etc., with members of the Industry, outside Experts and eminent personalities at regular interval, Conducting Industrial Training, Orientation Courses, Industrial Visits etc for faculty and students at regular intervals, Facilitating the joint research work, consultancy for faculty and students, Conducting industrial exhibitions within the institution Facilitating the professionals from Industry to work as visiting faculty in institutions and short or long periods deployment of

faculty from institutions to Industry for gaining industrial experience and/or work on projects in Industry, Seeking and associating the experts from Industry in Curriculum improvement and review, identifying Continuing Education opportunities, shortterm programmes and training needs of the Industry, which the institution can provide, promoting the revenue generating activities for the institution like Lab Testing, Calibration, consultancy and RD etc. and assessing periodically the scientific and technological scenario/ happenings in India and abroad in order to translate it into action for taking up future RD work. Research Park: The only college in India chosen by four world renowned giants to have their centers of research and innovation Bosch Rexroth Center of Competence in Automation Technologies, Siemens Center of Excellence and Kuka Robotic Technology Center under one roof in a unique Research Park established at a cost of Rs 20 Crore. These centers are proactive to bridge the gap between industry and academia by imparting value added training programs to students for better exposure to state of the art technologies practiced in industry and enhancing their employability skills. They work on innovative and research projects with IndustryInstitute interaction in pursuit of patents. The centers also form the platform for the training of industry personnel. Bosch Rexroth Center of Competence in Automation Technologies The center is first of its kind in Andhra Pradesh and is the hallmark in automation technologies worth 60 million with Pneumatics, Hydraulics, PLC, Sensorics, modular Mechatronics System (mMS), CNC controller, Motion Logic Drives and Automation Studio modules. Students of all branches master automation technologies which are otherwise not available in any undergraduate curriculum and make themselves industryready. Siemens Center of Excellence:The center is an epitome of international standard software for design, modeling, analysis, manufacturing and project management software. The students get trained by Siemens and work on NX 8, Solid Edge, FEMAP with NASTRAN, CAM Express, TechnomaticsRobCAD, Team Centre and ProgeCAD. Qualified students will be listed in Siemens' web site used for international placement. Robotic Technology Centre: The centre has imported a robot from one of the leading manufacturers of robots in the world 'KUKA, Germany' which costs around Rs. 30,00,000/ (Thirty Lakhs) and is the first private engineering college in Andhra Pradesh state to possess a KUKA ROBOT (KR5) which is housed in Robotic Technology Centre in the research park building. Five of the faculty members have undg at KUKA Robot Group, Pune for a period of one week in various applications.

Provide the weblink of the institution

<http://www.becbapatla.ac.in/pages/institutional-distinctiveness>

8.Future Plans of Actions for Next Academic Year

For the Academic Year 20202021, Bapatla Engineering College has the following action plan: 1. Enhance the admissions: For the last two years, the college has taken many quality initiatives which have started giving results. It wishes to see that this reaches the future students through some outreach mechanism to attract good number of students with better ranks with in the state and from other states. 2. Improve the learning by doing activities: The college has already introduced miniprojects for the students to gain handson experiences by working on them. It is attempting to redesign the laboratory experiments to give the students more skillbased training in the laboratories. The college is also in touch with some manufacturing industries to redesign the laboratory experiments. 3. Improve the internship and industrybased projects: The college has made it mandatory the internships to all students and making attempts to get them work on industry projects. This year about 25 of the students are working on industry projects. Next year we wish to enhance this to 50. 4. Research Activities: The research publications to faculty ratio should reach 1:1 by the end of next academic year. College is making attempts to get at least two consultancy projects in the Departments other than civil Engineering, at least three sponsored research projects. College wishes to encourage all faculty members to register for Ph. D. It wishes to conduct at least one international conference in collaboration with a foreign University and at least two national conferences in collaboration with professional bodies. It wishes to initiate at least ten internal research projects as all the departments are recognized as Research Centres by the Acharya Nagarjuna University. 5. Community Engagement: College wishes is adopting at least three villages for community engagement and carry out comprehensive survey. It wishes to prepare a perspective Plan for development for each village and help them in implementation. It is also taking up to bring environment friendly awareness in the Bapatla town and its surroundings. It wishes to increase its activities in educating the school children for cleanliness, etc. through the NSS volunteers of the college. 6. Incubation and Entrepreneurship: At present incubation centre is being started with the help of two companies. Already 10 company Executives have taken 40 students for mentoring for startups. We wish to increase the participation of number of companies in the Incubation centre and by the end of next year, at least one startup be realized through these efforts. 7. Improve the faculty strength to satisfy the faculty cadre ratio in all Departments, and number of faculty members with Ph. D. to 80.