

Yearly Status Report - 2019-2020

Part A		
Data of the Institution		
1. Name of the Institution	BAPATLA ENGINEERING COLLEGE	
Name of the head of the Institution	V DAMODARA NAIDU	
Designation	Principal	
Does the Institution function from own campus	Yes	
Phone no/Alternate Phone no.	08643-224244	
Mobile no.	9440730035	
Registered Email	bec_principal@becbapatla.ac.in	
Alternate Email	bec_principal@yahoo.com	
Address	GBC ROAD, MAHATMAJI PURAM	
City/Town	Bapatla	
State/UT	Andhra Pradesh	
Pincode	522102	
2. Institutional Status		

Autonomous Status (Provide date of Conformant of		23-Jun-2010				
Autonomous Status)						
Type of Institution	Type of Institution			Co-education		
Location		Rural				
Financial Status		private				
Name of the IQAC co-ordinator/Director		Dr P Sundara	Kumar			
Phone no/Alternate	e Phone no.		08643224244			
Mobile no.	Mobile no.		9182426301			
Registered Email	Registered Email		beciqac@gmail.com			
Alternate Email			sundarkumar.pitta@becbapatla.ac.in			
3. Website Address	s					
Web-link of the AQAR: (Previous Academic Year)		<u>http://www.becbapatla.ac.in/uploads/</u> BCE1568869448166.pdf				
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/acade mic-calenders		n/pages/acade		
5. Accrediation De	tails					
Cycle	Grade	CGPA	Year of	Vali	dity	
			Accrediation	Period From	Period To	

Cycle	Clade	00171	i oui oi	Vai	aity
			Accrediation	Period From	Period To
1	В	2.70	2015	03-Mar-2015	02-Mar-2020
2	B++	2.99	2020	11-Mar-2020	10-Mar-2025

6. Date of Establishment of IQAC

07-Oct-2015

7. Internal Quality Assurance System

Quality initiatives	s by IQAC during the year for promotin	g quality culture
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Internal Academic Audit	23-Mar-2021	15

	2	
NIRF 2019 participation	19-Feb-2021 1	15
To participate in ARIIA	18-Aug-2020 1	15
NAAC Inspection	05-Mar-2020 2	250
ISO certification	28-Jan-2020 1	32
Alumni meet	28-Dec-2019 1	85
Autonomous Inspection	19-Oct-2019 2	250
Regular Meetings of IQAC	22-Jan-2020 1	15
Regular Meetings of IQAC	04-Oct-2019 1	15
Reconstitution of IQAC	15-Jul-2019 1	15
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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.

Institution/Departmen t/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr.N.Sudhakar	SPDP	AICTE	2019 1095	1633000
Dr G Ravi Kumar	GOC	AICTE	2020 5	161667

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	<u>View File</u>
10. Number of IQAC meetings held during the year :	3
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	<u>View File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities	No

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

Strengthening of Knowledge Dissemination: The IQAC strengthens knowledge dissemination in two ways digitalizing and disseminating. CAMU software is used for this purpose.

To keep upfront with newer technology, all staff/Student members are encouraged to pursue NPTEL (MOOC) online courses.

Programmes like workshops, seminars are organised Faculty members have been motivated and facilitated to attend faculty development training programmes and workshops in reputed organisations with financial support

Through Institutions Innovation Council, Students are motivated to participate in Smart India Hakathtan competitions

Initiated and completed the pending syllabus in the even semester of the academic year 2019-20 and conduct internal examinations online mode to handle the pandemic situation.

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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
Improved transparency in Answer script evaluation.	More satisfaction from the students and parents.
The faculty recognition at national and international level should be enhanced	Four members were selected as Innovation ambassadors by MHRD - IIC Dr. V Damodara Naidu , Principal has given a talk during the world education summit
Faculty with Ph.D. should only be considered in recruitment	No of Ph.D.'s in the department are improved to meet the quality frameworks mentioned by HEI
MoUs should be initiated	Number of MoUs are increased
Proposal for students placement / GATE coaching	400+ Placements/Higher studies and a good number of GATE qualifiers
Participation in the programmes organised by other Institutions	Nearly 1200 programs were attended by faculty
Encouraging the faculty to publish the research articles and to obtain the patents for their work.	Number of Papers published in journals are substantially increased and good number of patents were published
E - content development	LMS implemented for all the courses
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14. Whether AQAR was placed before statutory body ?

body ?	
Name of Statutory Body	Meeting Date
College Academic Council	18-Feb-2021
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	05-Mar-2020
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2021
Date of Submission	19-Feb-2021
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton 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 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 andVisitors (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 Re valuation Results Publishing Report Advantages to Parents and Students • Realtime updates can be seen in their personalized mobile app • Instant Communication about their children • Homework Communication in their Mobile App/ SMS/ Portal • Attendance Percentage in the Parent Mobile App/Portal • Online Fee payment can be made by the parents through their mobile app • Student Profile up to date can be viewed and corrected

Part B

CRITERION I – CURRICULAR ASPECTS

Name of Programm	ne Programm	e Code	Programm	e Specialization	Date of Revision
MSc	MSc		MSc	- Computer cience	01/07/2019
MCA	MCA	.01	Master of Computer Applications		01/07/2019
		View	<u>w File</u>		
.2 – Programmes/ co r	ourses focussed on er	nployability/	entreprene	urship/ skill developr	nent during the Acade
Programme with Code	Programme Specialization	Date of In	troduction	Course with Code	Date of Introduction
BTech	Computer Science and Engineering	01/0	7/2019	Industrial Management Ent epreneurship Development Y14ME801	r
BTech	Computer Science and Engineering	01/0	7/2019	Advanced Cyber Securit 14CS802	01/07/2019 Y
BTech	Computer Science and Engineering	01/0	7/2019	ELECTIVE- IV(Software Testing Methodologies 14CS803(A)	01/07/2019
BTech	Computer Science and Engineering	01/0	7/2019	ELECTIVE- V(Application Programming using Python) 14CS804(A)	
BTech	Computer Science and Engineering	01/0	7/2019	PROJECT WOR 14CSPR801	к 01/07/2019
BTech	Computer Science and Engineering	01/0	7/2019	Advanced Cyber Securit Lab 14CSL801	01/07/2019 y
BTech	Computer Science and Engineering	01/0	7/2019	Introductio to Cyber Security 14CS701	n 01/07/2019
BTech	Computer Science and Engineering	01/0	7/2019	Object Oriented Analysis and Design 14CS70	
BTech	Computer Science and Engineering	01/0	7/2019	Advanced Dat Analytics 14CS703	a 01/07/2019
BTech	Computer Science and	01/0	7/2019	Wireless	01/07/2019

Engineer	ing		14CS704		
<u>View File</u>					
 Academic Flexibility 					
.1 – New programmes/courses intr	oduced during	the Academic year			
Programme/Course	Program	nme Specialization	Dates	s of Introduction	
Nill	NIL			Nill	
		<u>View File</u>			
2.2 – Programmes in which Choice lege level during the Academic yea		System (CBCS)/Elec	tive Course Syster	m implemented at the	
Name of programmes adopting CBCS	Prograr	nme Specialization		implementation of ctive Course System	
BTech	CIVI	L ENGINEERING	(01/07/2019	
BTech		TER SCIENCE AN IGINEERING	D (01/07/2019	
BTech		ECTRONICS AND ATION ENGINEERI		01/07/2019	
BTech		ECTRICAL AND NICS ENGINEERIN		01/07/2019	
BTech	INST	ECTRONICS AND TRUMENTATION IGINEERING	(01/07/2019	
BTech	MECHAN	ICAL ENGINEERI	NG	01/07/2019	
BTech	INFORM	ATION TECHNOLO	GY (01/07/2019	
MCA		er of Computer plications	(01/07/2019	
MSc	Com	puter Science	(01/07/2019	
Mtech		CSE	(01/07/2019	
Mtech		CAD/CAM	(01/07/2019	
Mtech		SE	(01/07/2019	
Mtech		CESP	(01/07/2019	
MSc	Analy	tical Chemistr	y (01/07/2019	
MSc	Orga	anic Chemistry	(01/07/2019	
MSc		Physics	(01/07/2019	
MSc	1	fathematics	(01/07/2019	
– Curriculum Enrichment					
.1 – Value-added courses impartin	g transferable	and life skills offered	d during the year		
Value Added Courses	Date	e of Introduction	Number of	of Students Enrolled	
Aptitude		15/06/2019		43	
Business English and communication skills		15/06/2019		43	
Coding		15/06/2019		43	
Campus to corporate		15/06/2019		43	

vehicle	06/01/2020	126	
NPTEL online Certification- Introduction to Smart Grid	01/08/2019	2	
SOFT SKILL TRAINING	26/06/2019	145	
LAUNGUAGE SKILS	26/06/2019	145	
CAMPUS TO CORPORATE	26/06/2019	145	
Aptitude	26/06/2019	145	
	<u>View File</u>		
1.3.2 – Field Projects / Internships und	er taken during the year		
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships	
BTech	CIVIL ENGINEERING	13	
BTech	COMPUTER SCIENCE AND ENGINEERING	6	
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	38	
BTech	MECHANICAL ENGINEERING	2	
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	19	
	<u>View File</u>		
.4 – Feedback System			
1.4.1 – Whether structured feedback re	eceived from all the stakeholders.		
Students		Yes	
Teachers		Yes	
Employers		Yes	
Alumni		Yes	
Parents		Yes	
Falents		development of the institution?	
1.4.2 – How the feedback obtained is t	being analyzed and utilized for overall	development of the institution?	
1.4.2 – How the feedback obtained is t maximum 500 words) Feedback Obtained	being analyzed and utilized for overall		

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

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enroll
Mtech	COMPUTER SCIENCE ENGINEERING	18	Nill	Nill
BTech	CIVIL ENGINEERING	180	52	52
BTech	COMPUTER SCIENCE ENGINEERING	180	193	193
BTech	ELECTRONICS AND COMMUNICATIONS ENGINEERING	180	164	164
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	120	42	42
BTech	ELECTRONICS AND INSTRUMENTATION ENGINEERING	60	Nill	Nill
BTech	INFORMATION TEHNOLOGY	120	114	114
BTech	MECHANICAL ENGINEERING	180	48	48
Mtech	Structural Engineering	18	7	7
Mtech	COMMUNICATION ENGINEERING AND SIGNAL PROCESSING	18	Nill	Nill

3926	;		2	252		1:16		
4 – Teacher Profile	and Quality							
2.4.1 – Number of full ti	me teachers ap	pointed	during the	year				
No. of sanctioned positions					No. of faculty with Ph.D			
252	252		N	ill		29		63
2.4.2 – Honours and re	-	•	•			gnition, fe	llows	hips at State, Nationa
Year of Award	Award Name of full time teachers Design receiving awards from state level, national level, international level		signatio		fello	ame of the award, wship, received from rnment or recognized bodies		
2020		Sri P eswara			ssista ofesso	-	AWA	BEST TEACHER RD - Department
2020		r B Vi Krishr			ssista		AWA	BEST TEACHER RD - Department
2020	Sri 1	Chir	anjeevi		ssista	-	AWA	BEST TEACHER RD - Department
2020	I	Or N F	Rafi		ssista ofesso	_	BEST TEAC AWARD - Depar	
2020	Sri	K Nag	ga Raju		Assistant Professor		BEST TEACH AWARD - Depart	
2020	Ms	K Bha	arathi		ssista ofesso	-	BEST TEA AWARD - Depa	
2020	Sri	Sri N Sri Rao		Assistant Professor				
2020	Sri	i N Su Kumar	udheer :		ssista ofesso		AWA	BEST TEACHER RD - Department
2020	D	r S M	ohan				BEST TEACHER RD - Department	
			<u>View</u>	<u>ı File</u>				
5 – Evaluation Proc	ess and Refor	ms						
.5.1 – Number of days e year	from the date c	of seme	ster-end/ ye	ear- end exa	aminatio	n till the de	eclara	ation of results during
Programme Name	Programme (Code	Semeste	er/ year	semes	ate of the ter-end/ ye examination	ear-	Date of declaration results of semester end/ year- end examination
BTech	BT01		VII SE 201			3/11/201	L9	12/12/2019
BTech	BT01		V SEM 201	1 / NOV 19	20)/11/201	L9	10/12/2019
BTech	BT01		III SE 201	IM / NOV	25	5/11/201	L9	16/12/2019
BTech	BT01		I SEM	I / DEC	02	2/01/202	20	22/01/2020

BTech	BT01	VIII SEM / SEP 2020	19/09/2020	15/10/2020				
BTech	BT01	VI SEM / OCT 2020	11/04/2020	30/11/2020				
BTech	BT01	IV SEM / NOV 2020	13/11/2020	13/12/2020				
BTech	BT01	II SEM / NOV 2020	21/11/2020	16/12/2020				
BTech	BT02	VII SEM / NOV 2019	18/11/2019	12/12/2019				
BTech	BT02	V SEM / NOV 2019	20/11/2019	10/12/2019				
	<u>View File</u>							

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
155	6715	2.30

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

	lage er etaderne				
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	Civil Engineering	123	98	80
BT02	BTech	Computer science and Engineering	161	147	91
BT03	BTech	Electronics and Communic ation Engineering	172	143	83
BT04	BTech	Electrical and Electroncis Engineering	139	114	82
BT05	BTech	Electronics and Instrume ntation Engineering	33	21	64
BT06	BTech		73	59	81

		ormation hnology				
BT07		chanical ineering	142	2 1	.17	82
MT01		tuctural ineering	7		7	100
MT 0 3	Eng	ommunicat ion ineering l Signal ocessing	7		7	100
MT04		Power ystems ineering	3		3	100
		<u>View</u>	<u>File</u>			
 Student Satisfa 	ction Survey					
.1 – Student Satisfa	ction Survey (SSS) or and details be provide		tional perfo	rmance (Instituti	on may d	lesign the
http:/	//www.becbapatla	.ac.in/pag	es/stude	nts-satisfa	ctory-s	survey
ITERION III – RE	SEARCH, INNOVA	ATIONS AND		SION		
	esearch and Faciliti					
	provides seed money		for researc	 h		
		Ye				
	Nome					
	Name e	of the teacher g	Jetting Seec	interes		
		CH.Subr	amanyam			
		CH.Subr <u>View</u>				
.2 – Teachers award	ded National/Internatio	View	File	ed studies/ resea	arch durir	ng the year
.2 – Teachers award Type	ded National/Internation Name of the teacher awarded the fellowship	<u>View</u> onal fellowship	<u>File</u> for advanc	ed studies/ resea		
	Name of the teacher awarded the	View onal fellowship · Name of th	File for advanc e award Eicate ewing		d /	
Туре	Name of the teacher awarded the fellowship Dr . G. Ravi	View onal fellowship Name of th Certif of Revi from Els	File for advanc e award ficate ewing sevier esearch	Date of awar	d /	Awarding agency Elsevier SV Universi College of
Type National	Name of the teacher awarded the fellowship Dr . G. Ravi Kumar Dr. P Sundara	View onal fellowship Name of th Certif of Revi from Els a Best Re	File for advanc e award ficate ewing sevier esearch er	Date of awar	d /	Awarding agency Elsevier SV Universit College of Engineering,
Type National International	Name of the teacher awarded the fellowship Dr . G. Ravi Kumar Dr. P Sundara	View onal fellowship Name of th Certif of Revi from Els a Best Re Pape	File for advanc e award ficate ewing sevier esearch er	Date of awar	d /	Awarding agency Elsevier SV Universit College of Engineering,

Nature of the Project	Duration		Name of the funding agency		otal grant Inctioned	Amount received during the year
Any Other (Specify)	1095	AICTE			16.33	8.16
Any Other (Specify)	5		AICTE		1.61	1.61
			<u>View File</u>			
3.2.2 – Number of ongo uring the years	ing research pr	ojects p	er teacher funded by g	overnm	ent and non-go	vernment agencies
			1			
.3 – Innovation Ecos	ystem					
3.3.1 – Workshops/Sem ractices during the year		ed on In	tellectual Property Righ	its (IPR)	and Industry-A	Academia Innovative
Title of workshop	/seminar		Name of the Dept.			Date
A Seminar on Machine Intel		C	omputer Science a Engineering	and	02	2/07/2019
Guest Lect Research Method Multi Level In	lology in	C	omputer Science a Engineering	and	30/07/2019	
A Seminar on Emerging Research Trends in AI and IOT		Computer Science and Engineering		02/08/2019		
Guest Lecture on Distributed Energy resources including energy stroge and their control		Elec	Electrical and tronics Engineer	ing	24	4/08/2019
Organise O Workshop "Entrepreneurs Innovation As Opportuni	On ship And Career		ntre for Innovat: Incubation and Entrepreneurship		2:	1/08/2019
A Two Day Ser Entrepreneu Developme	rship		ntre for Innovat: Incubation and Entrepreneurship		2:	1/08/2019
Three day Live Assisted workshop on Basics of Python		In	Information Technology		04/09/2019	
Guest Lecture on Applications of Advanced DC-DC Power Converter		Elec	Electrical and Electronics Engineering		18/09/2019	
Guest Lect Applications c Energy	of Solar	Elec	Electrical and tronics Engineer		18	8/09/2019
Vocational Tr Making and Tes industrial El Apparatu	sting of ectric	Elec	Electrical and tronics Engineer		3(0/09/2019

Student S Ambassador work Gandhi Global So in Collaboration Bombay	Electrical and Electronics Engineering			02/10/2019						
Workshop On H Technolog (Aroubotics-	ax	Me	chanical	Engineering		03/1	L0/2019			
Vocational tra total station	-		Civil En		ıg	17/1	L0/2019			
	View File 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year									
							•			
Title of the innovation	Name of Awa		Awarding			e of award	Category			
Innovation Ambassador	Sri M Su	ınil	МІ	HRD	07	7/02/2020	Innovation promotion / Technology Transfer			
Innovation Ambassador	Sri H Rajendr		МІ	HRD	IRD 07/02/2020		Innovation promotion / Technology Transfer			
Innovation Ambassador	Sri S Ganapthi Pı		МІ	HRD	07	//02/2020	Innovation promotion / Technology Transfer			
Atal Ranking of Institutions on Innovation Achievements (ARIIA)	Bapat] Engineeri College [<i>1</i> C-42660	ing ARI-	М	HRD	18	3/08/2020	Band C			
Innovation Ambassador	Dr D Sar Kumar	neer	МІ	HRD	07	7/02/2020	Innovation promotion / Technology Transfer			
			<u>View</u>	<u>r File</u>						
3.3.3 – No. of Incubation	n centre create	d, start-	ups incubate	ed on camp	ous durir	ng the year				
Incubation Center	Name	Spon	sered By	Name of the Nature of Start Start-up up		Nature of Start- up	Date of Commencement			
NIL	NIL		NIL NIL		NIL	Nill				
			View	<u>File</u>						
3.4 – Research Publica	ations and Av	vards								
3.4.1 – Ph. Ds awarded	during the yea	r								
Name o	of the Departme	ent			Num	ber of PhD's Awa	rded			
	s and Commu gineering	unicat	ion			2				
	al and Elec gineering	troni	CS			2				

Туре	Department	Number of Publication	Average Impact Factor any)
International	Chemistry	9	1
National	Chemistry	1	0
International	Mathematics	11	1
International	Computer Science and Engineering	16	0
International	Electronics and Communications Engineering	24	1
International	Electrical and Electronics Engineering	23	0
International	Mechanical Engineering	51	1
International	Information Technology	2	0
International	Physics	10	2
International	EIE	1	0
ceedings per Teacher duri	ng the year		onal/International Confere
ceedings per Teacher duri	ng the year		
ceedings per Teacher durin Depart	ng the year		
ceedings per Teacher durin Depart Information	ng the year		⁻ Publication
ceedings per Teacher durin Depart Information Computer Science	ng the year tment n Technology e and Engineering Instrumentation		Publication
ceedings per Teacher durin Depart Information Computer Science Electronics and Engine	ng the year tment n Technology e and Engineering Instrumentation		¹ Publication 1
ceedings per Teacher durin Depart Information Computer Science Electronics and Engine	ng the year tment n Technology e and Engineering Instrumentation ering Engineering		F Publication 1 1 1
ceedings per Teacher durin Depart Information Computer Science Electronics and Engine	ng the year tment n Technology e and Engineering Instrumentation ering Engineering <u>View</u>	Number of	F Publication 1 1 1
ceedings per Teacher durin Depart Information Computer Science Electronics and Engine Mechanical	ng the year tment n Technology e and Engineering Instrumentation ering Engineering <u>View</u>	Number of	F Publication 1 1 1
ceedings per Teacher durin Depart Information Computer Science Electronics and Engine Mechanical	ng the year tment n Technology e and Engineering Instrumentation ering Engineering <u>View</u> arded during the year	Number of	1 1 1 7
ceedings per Teacher durin Depart Information Computer Science Electronics and Engine Mechanical .4 – Patents published/awa Patent Details V.V. Kondaiah, B. atna Sunil, Multi axis rotary stir	ng the year tment n Technology a and Engineering Instrumentation ering Engineering <u>View</u> arded during the year Patent status	Number of <u>File</u> Patent Number	F Publication

		Venu, Solid state deposition process of surface alloy coating			
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<u>View File</u>

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 spectro scopic, co mputationa l and biological activity studies of L-shaped s ulfamoylbe nzoic acid derivative s: A third order nonlinear optical material	Krishna Murthy Potla	Journal of Molecular structure	2020	3	Bapatla Engineerin g College	3
An analysis of structural and spectr oscopic si gnatures, the reactivity study of s ynthetized 4,6-dichlo ro-2-(meth ylsulfonyl)pyrimidin e: A potential third- order nonlinear optical material	Krishna Murthy Potla	Journal of Molecular structure	2019	13	Bapatla Engineerin g College	13
Synthesis and anti- diabetic	K. Prasada Rao	Phosphor us, Sulfur, and	2020	1	Bapatla Engineerin g College	1

activity evaluation of phospho nates containing thiazolidi nedione moiety		Silicon and the Related Elements				
Synthesis, Characteri zation, Analgesic and Anti-i nflammator y activity of new pyrazole d erivatives	Vallabha neniMadhav aRao	Arkivoc Journal	2020	1	Bapatla Engineerin g College	1
Monetiza tion of coma patient and health prediction using machine learning	C H Subr amanyam	Journal of Enginee ring Science	2020	0	Bapatla Engineerin g College	Nill
Synthesis, spectral c haracteriz ation and bioactivit y evaluation of sulfona mide deriv atives of p-nitroben zene sulfo nylchlorid e,	C H Subr amanyam	Indian Journal of Chemistry	2019	0	Bapatla Engineerin g College	Nill
<pre>4-{[4-(D imethylami no) benzyl idene]amin o}-5-methy l-4H-1,2,4 -triazole- 3-thiol as Corrosion Inhibitor for 316 Stainless Steel in</pre>	Krishna Murthy Potla	Asian Journal of Chemistry	2020	0	Bapatla Engineerin g College	Nill

1				I	I	
2.5 M Sulphuric Acid: An E xperimenta 1 and Theo						
retical In vestigatio n						
In silico molecular docking and in vitro anti oxidant activity studies of novel ?-Am inophospho nates bearing 6- amino-1,3- dimethyl uracil,	Krishna Murthy Potla	Journal of Receptors and Signal Transducti on	2020	3	Bapatla Engineerin g College	3
Experime ntal and T heoretical Study of Corrosion Behaviour of Maraging Steel in 1 M HCl in Presence of 5-Methy 1-4-[(E)-(thiophen-2 -ylmethyli dene)amino]-4H-1,2,4 -triazole- 3-thiol	Krishna Murthy Potla	Asian Journal of Chemistry	2019	0	Bapatla Engineerin g College	Nill
An analysis of sturect ural, spet roscopic s ignatures, reactivity and anti- bacterial study of s ynthesized 4-chloro-3 - sulfamoy lbenzoic	Krishna Murthy Potla	Journal of Molecular structure	2020	5	Bapatla Engineerin g College	5

acid			View File			
4.6 - h-Index c	of the Institutions	Publications du		sed on Sconus/	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 publicatio
Synthesis, spectral c haracteriz ation and bioactivit y evaluation of sulfona mide deriv atives of p-nitroben zene sulfo nylchlorid e,	C H Subr amanyam	Indian Journal of Chemistry	2019	5	Nill	Bapatla Engineerin g College
Monetiza tion of coma patient and health prediction using machine learning	C H Subr amanyam	Journal of Enginee ring Science	2020	5	Nill	Bapatla Engineerin g College
Synthesis, Characteri zation, Analgesic and Anti-i nflammator y activity of new pyrazole d erivatives	Vallabha neniMadhav aRao	Arkivoc Journal	2020	5	1	Bapatla Engineerin g College
Synthesis and anti- diabetic activity evaluation of phospho nates containing thiazolidi nedione moiety	K. Prasada Rao	Phosphor us, Sulfur, and Silicon and the Related Elements	2020	6	1	Bapatla Engineerin g College

						,
An analysis of structural and spectr oscopic si gnatures, the reactivity study of s ynthetized 4,6-dichlo ro-2-(meth ylsulfonyl)pyrimidin e: A potential third- order nonlinear optical material	Krishna Murthy Potla	Journal of Molecular structure	2019	8	13	Bapatla Engineerin g College
An analysis of sturect ural, spet roscopic s ignatures, reactivity and anti- bacterial study of s ynthesized 4-chloro-3 - sulfamoy lbenzoic acid	Krishna Murthy Potla	Journal of Molecular structure	2020	8	5	Bapatla Engineerin g College
Experime ntal and T heoretical Study of Corrosion Behaviour of Maraging Steel in 1 M HCl in Presence of 5-Methy 1-4-[(E)-(thiophen-2 -ylmethyli dene)amino]-4H-1,2,4 -triazole- 3-thiol	Krishna Murthy Potla	Asian Journal of Chemistry	2020	8	Nill	Bapatla Engineerin g College

In Krishna Silico Murthy molecular Potla docking and in Vitro anti oxidant activity studies of novel ?-Am inophospho nates bearing 6- amino-1,3- dimethyl uracil, 4-{[4-(D Krishna Murthy Potla idene]amin o}-5-methy 1-4H-1,2,4 -triazole- 3-thiol as Corrosion Inhibitor for 316 Stainless Steel in 2.5 M Sulphuric Acid: An E xperimenta 1 and Theo retical In vestigatio n An Krishna Murthy Potla	Journal of Receptors and Signal Transducti on	2020	8	3	Bapatla Engineerin g College
<pre>imethylami Murthy no) benzyl Potla idene]amin o]-5-methy l-4H-1,2,4 -triazole- 3-thiol as Corrosion Inhibitor for 316 Stainless Steel in 2.5 M Sulphuric Acid: An E xperimenta l and Theo retical In vestigatio n An Krishna analysis Murthy of spectro scopic, co mputationa l and biological activity studies of L-shaped s ulfamoylbe</pre>					
analysis Murthy of spectro Potla scopic, co mputationa l and biological activity studies of L-shaped s ulfamoylbe	Asian Journal of Chemistry	2020	8	Nill	Bapatla Engineerin g College
nzoic acid derivative s: A third order nonlinear optical material	Journal of Molecular structure	2020	8	3	Bapatla Engineerin g College
		<u>View File</u>			

Number of Faculty	International	Na	tional	State	Local
Attended/Semi mars/Workshops	14		150	25	Nill
Presented papers	23		7	Nill	Nill
Resource persons	1		6 Nill		4
		Vie	w File		•
– Consultancy					
5.1 – Revenue genera	ted from Consultancy	during the	year		
Name of the Consultan department	n(s) Name of con project	•		ng/Sponsoring Igency	Revenue generated (amount in rupees)
SRI T CHIRANJE	EVI SOIL	TEST		Builders, patla	6372
SRI T CHIRANJE	EVI SOIL	TEST		ri Prasad, patla	6372
SRI P BAPI RA	JU SOIL	TEST		Hareram M u, Bapatla	6372
SRI Y MURALI KRISHNA	Cub	es	Engin Police Corpora	Excutive Neer, APS e Housing Ntion Ltd., untur	3186
SRI T CHIRANJE	EVI SOIL	TEST	Bhad: Pancha	? Infras, ru Palem yat, Ipuru untur Dist	236
SRI P BAPI RA	JU SOIL	TEST	Best	reddi Gopi, hapalem, npatla	6372
SRI T CHIRANJE	EVI SOIL	TEST	Sto Nuth Villago	hana Cold orage, nalapadu e, Parchur akasam Dist	5900
SRI T CHIRANJE	EVI SOIL	TEST	Ethnus	asterweaver Indian Pvt Hyderabad	7316
SRI T CHIRANJE	EVI SOIL	TEST	Privat	SCR Nirman e Limited, lerabad	19824
Dr T CHANDRA SEKHAR RAO	SOIL		Convent PVT, L	randhayya ion Center td, Ponnur	531
			w File		
5.2 – Revenue genera	ted from Corporate T	raining by t	he institution	during the year	

Consultan(s) department	programme	trair	ning	(amount in rupee	es)	
Nil	Nil	1	Jil	0		0
		<u>Viev</u>	<u>v File</u>			
.6 – Extension Activiti	es					
3.6.1 – Number of extens Ion- Government Organis						
Title of the activities	Organising unit collaborating		particip	r of teachers ated in such ctivities		umber of students articipated in such activities
Breast Cancer Awarenes Camp	SAC	2		1		66
Blood Donation Camp	n SAC	2		1		52
Career Guidanc	e SAC	2		1		15
Womens Day	SAC	2	1			86
Beach cleaning	J NCC	2	1			39
Say no to Tobba	co NCC	2	1		45	
Reducing the plastic usage	NCC	2		1		40
Harvesting rai: water	n NCC	2		1	42	
Against use of polythene	E NCC	2		1		43
Save water	NCC	2		1		39
		Viev	v 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
Blood Donation	Indian Red Cross Society	Indian Red Cross Society	5
Career Guidance	Govt. high School	Govt. high School	8
Covid Awareness	Suryodaya society for Awakening Community	Suryodaya society for Awakening Community	5
Helping Hearts	Suryodaya society for Awakening Community	Suryodaya society for Awakening Community	5
	View	<u>File</u>	

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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Healthhygiene	BEC NCC,	Bore repairs	1	43

	Bapatla	Struc	tures			
SAC	BEC SAC, Bapatla	B] Donatic	lood on Camp	1	Ę	52
NGO	BEC SAC, Bapatla		reer ance	1	1	L5
Gender Issue	BEC SAC, Bapatla	Wome	ns Day	1	٤	36
swacch bharat	BEC NCC, Bapatla		each ning	1	3	39
Healthhygiene	BEC NCC, Bapatla		no to Daco	1	4	15
Maintaining Environmental balance	BEC NCC, Bapatla	Reduc plastic	ing the c usage	1	4	1 0
Improving ground water level	BEC NCC, Bapatla	Harv rain	esting water	1	4	42
promoting hygenic environment	BEC NCC, Bapatla	-	nst use ythene	1	4	13
promoting ecological balance	BEC NCC, Bapatla	Save	water	1	3	39
		<u>Viev</u>	<u>v File</u>			
7 – Collaborations 7.1 – Number of Collabo	prative activities for r	esearch, fao	culty exchar	nge, student exch	ange during the ye	ear
	prative activities for r		-	nge, student excha	ange during the ye Duratior	
7.1 – Number of Collabo		ant handra	Source of	-		ſ
7.1 – Number of Collabo Nature of activity Research	Participa Dr. T. C	ant handra Rao tna . Sarath M. , V. U. sad, G.	Source of Ins	financial support	Duration	ו
7.1 – Number of Collabo Nature of activity Research Publication	Participa Dr. T. C Sekhar B. Ra Sunil, N. M. Kumar, Venkataiah, S. Vara Pra	ant handra Rao tna Sarath M. , V. U. sad, G. , Venu	Source of Ins	financial support	Duration 120	ו
7.1 – Number of Collabo Nature of activity Research Publication Patent	Participa Dr. T. C Sekhar B. Ra Sunil, N. M. Kumar, Venkataiah, S. Vara Pra Suresh, M.	ant handra Rao tna Sarath M. , V. U. sad, G. , Venu c, India tica	Source of f Ins Ins	financial support	Duration 120	ו
7.1 - Number of Collabo Nature of activity Research Publication Patent Tech Talk	Participa Dr. T. C Sekhar B. Ra Sunil, N. M. Kumar, Venkataiah, S. Vara Pra Suresh, M. Cognisight Assemi	ant handra Rao tna Sarath M. , V. U. sad, G. , Venu t, India tica , USA BT	Source of f Ins Ins Ins Ins	financial support stitution stitution	Duration 120 120	ו
7.1 - Number of Collabo Nature of activity Research Publication Patent Tech Talk Seminar	Participa Dr. T. C Sekhar B. Ra Sunil, N. M. Kumar, Venkataiah, S. Vara Pra Suresh, M. Cognisight Assemi Robotics, BT &	ant handra Rao tna Sarath M. , V. U. sad, G. , Venu t, India tica , USA BT gies	Source of f Ins Ins Ins Ins	financial support stitution stitution stitution stitution	Duration 120 120	<u>ו</u>
7.1 - Number of Collabo Nature of activity Research Publication Patent Tech Talk Seminar Seminar Research	Participa Dr. T. C Sekhar B. Ra Sunil, N. M. Kumar, Venkataiah, S. Vara Pra Suresh, M. Cognisight Assemi Robotics, BT & Technolo	ant handra Rao tna Sarath M. V. U. sad, G. Venu t, India tica USA BT gies vi Kumar	Source of f Ins Ins Ins Ins Ins	financial support stitution stitution stitution stitution stitution	Duration 120 120	<u>ו</u>
7.1 - Number of Collabo Nature of activity Research Publication Patent Tech Talk Seminar Seminar Research Publication	Participa Dr. T. C Sekhar B. Ra Sunil, N. M. Kumar, Venkataiah, S. Vara Pra Suresh, M. Cognisight Assemi Robotics, BT & Technolo Dr. G. Ray	ant handra Rao tna Sarath M. V. U. sad, G. Venu tica , USA BT gies vi Kumar ayawada centre ians gies,	Source of f Ins Ins Ins Ins Ins Ins	financial support stitution stitution stitution stitution stitution	Duration 120 120 120 120 120	<u>ו</u>

Worksho	In E	Hyderabad stitute of lectrical ngineering	Institut:	ion	2
7.2 Linkagos wi	th institutions/indu	View stries for internship,	<u>r File</u>	project work	haring of research
cilities etc. during					
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
ndustrial Training	Technical supervision	PIU SUB DI VISION,REPAL LE	06/11/2019	05/04/202	20 1
Industrial Training	Technical supervision	PRI SUB DI VISION,CHIRA LA	06/11/2019	05/04/202	20 1
Industrial Training	Technical supervision	PIU SUB DI VISION,REPAL LE	06/11/2019	05/04/202	20 1
Internship	Industry Training	CISCO-CCNA TRAINNG- BAPATLA ENGINEERING COLLEGE	06/05/2019	24/08/203	19 28
INTERNSHIP	Watersupply System, Sanitation and Distribution	Executive Engineer (WRE Chirala)	13/01/2020	27/01/202	20 12
Mini Projects	Mini Projects on IOT	SRC e Embedded	24/06/2019	19/07/203	19 199
INTERNSHIP	SOFTWARE DEVELOPMENT	VALUE LABS	09/01/2020	08/06/202	20 1
INTERNSHIP	SOFTWARE DEVELOPMENT	BNP	09/01/2020	08/06/202	20 1
INTERNSHIP	SOFTWARE DEVELOPMENT	HCL	16/03/2020	15/07/202	20 4
INTERNSHIP	Construction of New CC Roadway from (Chirala to Repalle)	Project Manager (B-S- C-P-L)	13/01/2020	27/01/20:	20 7
	·	View	<u>/ File</u>		· ·

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
Sri Lakshmi Ganapathi Engineering Works (Kumar pumps), Tenali	31/08/2019	Exchange of knowledge between SLGEW and BEC to organize collaborative training programs for staff and students, TO provide internship to students of BEC	155
HYDERABAD INSTITUTE OF ELECTRICAL ENGINEERING(HIEE)	25/10/2019	Professional Activities	38
EMMELA DATA ANALYTICS PRIVATE LIMITED, BANGALORE	15/06/2019	Training programs for students to enhance their programming skills	2
ICT Academy , Chennai	01/07/2019	ICT Students and Faculty Development Programmes	33
	Vie	<u>w File</u>	
CRITERION IV - INFRAS	TRUCTURE AND LEAF	NING RESOURCES	
.1 – Physical Facilities			
4.1.1 – Budget allocation, ex	cluding salary for infrastructu	re augmentation during the y	ear
Budget allocated for infr	astructure augmentation	Budget utilized for infra	structure development
!	500	84	.17
4.1.2 – Details of augmentati	on in infrastructure facilities		
		during the year	
Faci	lities	during the year Existing or N	ewly Added
		Existing or N	ewly Added
Labor	lities	Existing or N Exis	
Labor Semina	lities atories	Existing or N Existing Exist	sting
Labor Semina Classrooms wit	lities atories ar Halls	Existing or N Exist Exist Exist Exist	sting
Labor Semina Classrooms wit Seminar halls w:	lities atories ar Halls h LCD facilities	Existing or N Exist Exist Exist Exist Exist	sting sting sting
Labor Semina Classrooms wit Seminar halls w Video	lities atories ar Halls h LCD facilities ith ICT facilities	Existing or N Exist Exist Exist Exist Exist	sting sting sting sting
Labor Semina Classrooms wit Seminar halls w Video	lities atories ar Halls h LCD facilities ith ICT facilities Centre th Wi-Fi OR LAN	Existing or N Exist Exist Exist Exist Exist	sting sting sting sting sting
Labor Semina Classrooms wit Seminar halls w Video Classrooms wi	lities atories ar Halls h LCD facilities th ICT facilities Centre th Wi-Fi OR LAN <u>Vie</u>	Existing or N Exist Exist Exist Exist Exist Exist Exist	sting sting sting sting sting
Labor Semina Classrooms wit Seminar halls w Video Classrooms wi	lities atories ar Halls h LCD facilities ith ICT facilities Centre th Wi-Fi OR LAN <u>Vie</u> Resource	Existing or N Exis Exis Exis Exis Exis Exis X File	sting sting sting sting sting
Labor Semina Classrooms wit Seminar halls w Video	lities atories ar Halls h LCD facilities ith ICT facilities Centre th Wi-Fi OR LAN <u>Vie</u> Resource	Existing or N Exis Exis Exis Exis Exis Exis X File	sting sting sting sting sting

4.2.2 – Library Services														
Library Service Type	Existing				Total									
Text Books	77498	21033000	1086	473000	78584	21506000								
Journals	90	4708000	Nill	257000	90	4965000								
e- Journals	523	8079000	Nill	1691000	523	9770000								
e-Books	1648	187000	Nill	13000	1648	200000								
			<u>View File</u>			<u>View File</u>								

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
Dr. V. V. Kondaiah	Design of Shaft lecture 1	YOUTUBE	06/12/2019
Dr. V. V. Kondaiah	Design of Shaft lecture 2	YOUTUBE	10/12/2019
Dr N Sudhakar	Introduction to BACKTRACKING - Part 2	YOUTUBE	27/04/2020
Dr N Sudhakar	Introduction to BACKTRACKING - Part 3	YOUTUBE	27/04/2020
Dr N Sudhakar	Introduction to BACKTRACKING - Part 4	YOUTUBE	27/04/2020
Dr N Sudhakar	N Queens Problem Coading	YOUTUBE	03/05/2020
Dr N Sudhakar	Sum of Subsets Problem	YOUTUBE	03/05/2020
Dr. V. V. Kondaiah	Design of Shaft lecture 3	YOUTUBE	20/12/2020
Dr.N Sudhakar	Introduction to BACKTRACKING - Part 1	YOUTUBE	27/04/2020
Dr. S Ramakrishna	introduction to Arrays	YOUTUBE	31/03/2020
	View	<u>/ File</u>	
.3 – IT Infrastructure			
I.3.1 – Technology Upgradat	ion (overall)		

Total Co Computer Internet Browsing Computer Office Departme Available Others Туре mputers centers Centers Bandwidt Lab nts h (MBPS/ GBPS) Existin 1400 25 1400 25 12 8 12 240 0

Added	104	0	104	0	0	0	0	0	0
Total	1504	25	1504	25	12	8	12	240	0
.3.2 – Ban	dwidth avail	able of inte	ernet connec	tion in the l	nstitution (L	eased line)			
				240 MB	PS/ GBPS				
.3.3 – Fac	ility for e-cor	ntent							
Nam	ne of the e-c	ontent dev	/elopment fa	cility	Provide t		ne videos cording fa	and media ce acility	ntre and
		CISCO-D	oms		http://w		apatla. cisco-d	ac.in/faci ms	litie
.4 – Maint	enance of	Campus	Infrastructu	re					
•	enditure inco during the y		naintenance o	of physical f	acilities and	academic	support fa	acilities, exclu	ding sala
-	ed Budget o mic facilities		penditure ind intenance of facilitie	academic	-	ed budget o cal facilities		Expenditure in naintenance o facilite	f physica
	759.75		649.	65		539.57		187.	09
devices establ: tech elec main mechan: in:	that are ished a c nical sta ctronics tenance ical main form the	e used i college aff from enginee of Collo tenance Convene	n the Cla Maintenar the disc ering, and ege build such as er of the	assrooms, nce commi ciplines d Mechani ing main plumbing committe	laborat ttee con of Civil cal Engi tenance, g, carpen se and th	ories, a sisting neering electri try, etc e work i	and oth of fac ering, to tak cal mai c. The s dele	equipment er places. ulty membe Electrical e care of intenance, department gated to t	It has ers and the and Heads the
devices establ: techn elec main mechan: in: appropr take techn mainte syst Electro the re inter mainten the comput Elec	that are ished a c nical sta ctronics ical main form the nate per- nate per- s, both i	e used i college aff from enginee of Colle tenance Convene sons. Fo the mem rform the in the power a tenance neering departs d, if no all the r Science h hardwa and Com	In the Cla Maintenar Maint	assrooms, ince commi- ciplines d Mechani- ing main plumbing committe e, if it the Elec nance. T s, offic uch as U carried oratory ery year with ex m and th gineerin oftware, n Depart ernal com	laborat ttee con of Civil cal Engi tenance, g, carpen e and th is an e trical en his inclue es, labor PS, Elect out the f equipment ternal to g Departs LCD Pro ment take	ories, a sisting engineering electri atry, etc e work i lectrica ngineeri udes ele ratories trical G Departme t mainte ive main echnicia tories i ment tha jectors es care on syste	and oth of fac ering, to tak cal mai c. The is dele l probl ng and ctrical common enerato nance is tenance s the r t inclue etc. The of the ems. The	er places. ulty membe Electrical e care of intenance, department	It has rs and the and Heads the ssue i rned nical etc. energy and bed out pment lity o et, ent of tion

Department are responsible for the maintenance of the playgrounds of various games, weight management equipment, other indoor games equipment such as TT Tables, and other play materials. They do the preventive maintenance as per the guidelines for 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, whereas other equipments such as barcode readers, reprographic equipment, etc. are serviced by the external agencies, mostly with an annual maintenance contract.

http://www.becbapatla.ac.in/uploads/NAAC_DATA/C4/4.4.2_maintenance.pdf

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	BEC- Scholarship	73	1362409
Financial Support from Other Sources			
a) National	Jagananna Vidya Deevena	2905	173305050
b)International	NIL	Nill	0
	Vior	, File	

<u>View File</u>

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
Seminar on Customer Relationship Management	05/12/2019	41	Prem Kiran, Director, Effexoft
Two day workshop on Storage Area Networks	25/11/2019	35	Mr.T.Abhilash, Subject Matter Expert, IBM, Hyderabad
Three day Live Assisted workshop on Basics of Python	04/09/2019	27	FOSSEE Group in Association with IIT,Bombay.
A Tech Talk on Coding Problems in Interviews	22/06/2019	144	Sekhar Muddana, Founder, Cognisight, India
A Seminar on Advanced Machine Intelligence	22/06/2019	139	Dr. Kranthi Kumar, Assemitica Robotics,USA
A Seminar on Emerging Research Trends in AI and IOT	22/08/2019	206	V. Srinivasarao, BT BT Technologies
TEKHACK - 2019 "	12/12/2019	181	SMART BRIDGE

Bootcamp On Internet Of Things And 24 Hours Hackathon "			Mentors (9 member:)
Soft Skills	24/06/2019	69	Stanley Davidsor Academy
Language and Communication Skills	24/06/2019	69	Stanley Davidsor Academy
Campus2Corporate	24/06/2019	69	Stanley Davidsor Academy
·	<u>View</u>	<u>File</u>	·

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 passedin the comp. exam	Number of studentsp placed
2020	GATE	255	188	15	Nill
2020	GRE	132	125	6	Nill
2020	IELTS	132	125	9	Nill
2020	State government examinations	168	92	34	34
2020	CRT(Reason ing, Aptitude, Arithmetic, Technical, C ommunication skills.)	650	138	116	116

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
3	3	10

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

	On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed	
14	858	116	61	1225	241	
	<u>View File</u>					

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to	
2020	1	B.Tech	Electrical and Electronics Engineering	University of Northumbria At Newcastle	MS	
2020	1	B.Tech	Electrical and Electronics Engineering	ANU College of Engineering, Guntur	M.Tech	
2020	1	B.Tech	Electrical and Electronics Engineering	Venu College Of Engineering, Tirupati	M.Tech	
2020	1	B.Tech	Electrical and Electronics Engineering	NIT Raipur	M.Tecł	
2020	1	B.Tech	Electronics Instrumentat ion Engineering	Andhra University (Vizag)	M.Tech	
2020	1	B.Tech	Computer Science and Engineering	Acharya Nagarjuna University	M.Tech	
2020	1	B.Tech	Computer Science and Engineering	Akron University, Ohio State, United States.	MS	
2020	1	B.Tech	Civil Engineering	Bapatla Engineering College	M.Tech	
2020	1	B.Tech	Civil Engineering	IGNO University	PGDUPD	
2020	1	B.Tech	Civil Engineering	NIT- Agartala	M.Tech	
			<u>v File</u>			
	qualifying in state/ nat T/GATE/GMAT/CAT/					
	Items		Number of	f students selected/	qualifying	
	GATE			15		
	GRE			6		
	TOFEL		Nill			

	Any Oth	her			9	
			<u>View File</u>			
2.4 – Sports a	nd cultural activiti	es / competitions	s organised at th	e institution leve	el during the year	
	Activity		Level			rticipants
	Sports		National		23	}
C	ultural		National		56	;
			<u>View File</u>			
– Student P	articipation and	d Activities				
	of awards/medals a team event sho			sports/cultural a	activities at nation	al/internation
Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of th student
2019	First Prize	National	1	Nill	Y16ACS479	K Vams Krishna
2019	Second Prize	National	1	Nill	¥16ACS479	K Vams Krishna
2019	First Prize	National	1	Nill	Y16ACS422, Y16ACS402	B Srikanth A Prassan Siva Ran
2019	First Prize	National	1	Nill	Y16ACS422	B Srikantl
2019	First Prize	National	1	Nill	Y16ACS422, Y16ACS402	B Srikanth A Prassan Siva Ran
2019	First Prize	National	1	Nill	Y16ACS422	B Srikantl
2019	Third Prize	National	1	Nill	Y16ACS422, Y16ACS479	B Srikanth K Vamsi Krishna
2019	First Prize	National	1	Nill	Y16ACS422, Y16ACS402	B Srikanth A Prassan Siva Ran
2019	Second Prize	National	1	Nill	Y16ACS422	B Srikantl

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

Bapatla Engineering College encourages democratic functioning of all systems and participation of staff and students in planning, implementing, and decisionmaking. In order to encourage the inherent talents of students in various

fields, College has institutionalized the activities. The Student Activities Committee is formed with staff and students that plays a major role in motivating students to participate in life skills activities. Different committees are constituted to implement this ambition. Every committee will have senior faculty members as staff coordinators and active students are taken as student coordinators. Other students become members of the committee on voluntary basis. Under the guidance of the staff coordinators, 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 capabilities. Necessary funds are provided by the Management. i). CCA (Centre for Creative Arts): is a committee that encourages the creative talents which are hidden in the students. The committee include the student members with a Faculty convener and some faculty members. It is responsible to develop the students in various cultural activities that include fine arts and performing arts and organize cultural programs and events. ii). AWAAZ is a club intended to give a platform to the students to exhibit the elite skills of the students in oratory and communication. This helps to drive away the stage fear in the students. It also organizes Literary Meets to make the students aware of the contemporary literature that helps to understand society. This is completely run by the students with a faculty member as convener. Many events are organized regularly by them. iii) Sports and Games Committee: This committee is formed with students and staff members and the Physical director as the convenor and the Principal as the chairperson. It encourages the students to participate in sports and games which improve general health, teamwork, as well as cooperative and leadership skills. They also develop a sportive spirit among the students. This committee organizes sports and games both outdoor and indoor. iv) Anti-Ragging Committee: The anti-ragging committee is constituted in the college to prevent the evil custom of ragging new students. It creates awareness in the students regarding the negative aspects of ragging. It tries its level best to prevent ragging inside and outside of the campus. vi) NCC and NSS: NCC and NSS are basically student bodies. They conduct various activities where most of the participants are students. They also extend their cooperation in maintaining discipline in the meetings organized by the college on the campus including the national festivals. They also participate in Swachh Bharat, Clean and Green programs of Govt. of A.P. Library Committee, SC/ST Committee, OBC Committee also have student representatives for the effective functioning of the Institute.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni are a strong support to the institution. The active alumni association is contributing much in academic matters, student support as well as mobilization of resources-both financial and non-financial. Bapatla Engineering college alumni association is registered with the Registration number 31954, has a clear organizational structure elected once in two years to advance the activities of student-alumni interaction, work for the overall growth of the college and students duly maintaining the alumni through web site through which one can share their views, suggestions, and information. The institution nurtures the alumni association/chapters to facilitate them to contribute significantly to the development of the institution through financial and non-financial means. Alumni meet every year in the college which is active on social media with its groups. College is dedicating a column for alumni news letter, encouraging alumni to visit campus and participate in all activities and assisting the students to obtain the sponsorships, internships, projects, placements duly through the matching grant. Alumni are offering advice to the students who travel abroad and gave lectures to students both on

technical and general topics. A general alumni meet is conducted for every year, in addition to alumni meets organized by individual departments of the college. A renowned events conducted in recent years by alumni are a 20years reunion (1994-98) and a 30-year re-union (1984-88) during July 2018. A grant of 12.5 lakhs is provided by 1984-88 batch to assist a meritorious low economic group of college. The 1988-92 Batch reunion was held on 27th September 2019, who addressed the students on industry environment, opportunities, and need to master the skills. The BEC alumni are set to establish chapters in various cities of India and abroad.

5.4.2 - No. of registered Alumni:

1350

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

0

5.4.4 - Meetings/activities organized by Alumni Association :

Alumni Meet on 28 - December - 2019

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 a decentralized governance system. The Governing Body delegates all the academic and operational decisions based on policy to the Principal, HODs , and the sanding 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 day-today academic and discipline decisions in consultation with the Heads of the Department. Heads of the Department are empowered to make decisions regarding work distribution, schedules, co-curricular 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 the 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	TeachingLearning 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 teachingLearning Process. The College understands that Quality is assured only when monitoring and review happens. Therefore, it is teachinglearning 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

	<pre>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.a on</pre>
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, SEN scripts are given to all the students for verification. No revaluation fee i collected from the students. Examination scheduling is prepared prior and subsequently informed to all the students in the class rooms and th 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 goal 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 • Creat 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

	1
Infrastructure / Instrumentation	<pre>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</pre>
	updated.
Human Resource Management	The College management perceives that the faculty members and staff are the backbone of the College. Its quality depends on the 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 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

	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.
Industry Interaction / Collaboration	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, AI (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.
Admission of Students	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 APSCHE 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 APPGCETis the criterion for selection.

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

E-governace 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 in 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 ummarization, 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
2019	K Manideep	4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT) - 2019	NA	9500

2019	Dr.Nazeer Shaik	SENSITIZING HIGHER EDUCATION INSTITUTIONS TO PROMOTE QUALITY ASSURANCE FOR NATION BUILDING- OPPERTUNITIES AND CHALLENGES workshop attended at SV	NA	4500
2019	Dr B. Chandra Mohan	University, Tirupati International Conference on Computing, Communication and networking technologies (ICCCNT)	NA	11880
2019	T Krishna Chaitanya	IISc INCAM Conference	NA	9110
2019	M. Suneel	2 Week FDP on WSN and IOT	NA	2135
2019	N. Pradeep	FDP on Advanced Vibration Analysis and its application in Industry organized by Andhra University	NA	7500
2019	K. Baburao	Two day workshop on Strengthening of civil infrastructure using advanced technologies challanges and opportunities	NA	6000
2019	T. Chiranjeevi	GIAN course on Design and Construction of Sustainable Concrete Pavements organized by IIT Madras	NA	8600
2019	P. Sundara Kumar	International conference on Green Power Technology in Power Gride-	NA	5637

			1	ICGPTPG-2019				
2019		N P N	Moorthy	Advance course on A perspective into Indian codes of practice <u>View File</u>	NZ	À		14400
6.3.2 – Number (eaching and non				ministrative traini	ng programmes	organized	by the	Colleges for
Year	Title of profession developr program organise teaching	ional ment nme ed for	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Numbe participa (Teach staff)	ants ing	Number of participants (non-teaching staff)
2019	Mir Projec on IC	cts	NA	24/06/2019	13/07/2019	5		Nill
2019	FDP Data Scien and B Data Analyt	a nce Big a	NA	15/07/2019	19/07/2019	10)	Nill
2019	Gue Lecture Researd ethadol in Mul Leve Invert	e on ch M logy lti 2l	NA	30/07/2019	30/07/2019	5		Nill
2019	Mir Proje Expo	ect	NA	31/07/2019	31/07/2019	20)	Nill
2019	Semi on Elec nics Defen	ctro in	NA	01/08/2019	01/08/2019	10)	Nill
2019	Works on Hardwa and P Desig	are PCB	NA	16/08/2019	27/08/2019	10)	Nill
2019	Gue Lecture Distrik d Ener resour includ energ stora	e on bute rgy cces ling gy	NA	24/08/2019	24/08/2019	9		Nill

	and t cont						
2019	word on 3 usi TM4C3 Launch	.ng 123G	NA	12/09/2019	14/09/2019	10	Nill
2019	Gu Lectur Applia ns Advar DC- Pow Conve	catio of nced ·DC ver	NA	18/09/2019	18/09/2019	9	Nill
2019	Gu Lectur Applic ns Sol Ener	catio of .ar	NA	18/09/2019	18/09/2019	10	Nill
				View File			
		•		levelopment progra ent Programmes du		entation Progr	amme, Refresher
Title of the profession developme programm	al ent		of teachers ittended	From Date	To da	te	Duration
Webinar	on		1	11/06/2020	12/06	/2020	2

programme				
Webinar on Big data Powering AI Data Stream Processing	1	11/06/2020	12/06/2020	2
RESEARCH APPLICATIONS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING"	1	15/06/2020	17/06/2020	3
Data Science and Bigdata Analytics conducted by ICT Academy at BEC,Bapatla.	1	15/07/2019	19/07/2019	5
"ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING" Organized by CMR Technical Campus in Association with Black Buck	1	18/05/2020	22/05/2020	5

27/04/2020	06/05/2020	10 5 6
18/05/2020	23/05/2020	6
18/05/2020	22/05/2020	5
01/06/2020	11/06/2020	12
15/07/2019	19/07/2019	5
<u>View File</u>	•	1
-	01/06/2020 15/07/2019 <u>View File</u>	01/06/2020 11/06/2020 15/07/2019 19/07/2019

Teac	hing	Non-teaching			
Permanent	Full Time	Permanent	Full Time		
29	29 29		Nill		

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Employees are	1. Employees are	1. Insurance provided
covered under EPF. 2.	covered under EPF. 2.	to all students. 2.
Study, Maternity and	Study, Maternity and	Endowment prizes will be
Medical leaves are	Medical leaves are	awarded to meritorious
sanctioned for the	sanctioned for the	students. 3. Sponsored
required staff. 3.	required non teaching	for student projects
Registration fees,	staff. 3. Registration	based on Innovative ideas
Dearness allowance,	fees, Dearness allowance,	4. Provided Hostel
Travel grants for faculty	Travel grants for non	facility for girls within
attending conferences and	teaching faculty	the campus
workshops are provided.	attending Training	
4. Concessional on	Programs are provided. 4.	
Transport and Medical	Concessional on Transport	
facilities for all the	and Medical facilities	
	l	

staff. 5. Full time Medical facility with qualified Doctor and bulance is available at institution. 6. Bank ATM and post office acilities are available the campus. 7. Minera ter is available in the campus for all. 8. Car acility along with fue s provided to the head of the departments.
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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			
Koniki Venkata Krishna Memorial Trust	4624	Endowment and Academic Prizes			
View File					

6.4.3 - Total corpus fund generated

601320843

6.5 – Internal Quality Assurance System

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

Audit Type	Exte	ernal	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 of 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 parent-teacher 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)

A three days workshop has been conducted on Office Automation Tools. Supporting Staff is practiced to conduct/schedule classes/exams in Online mode during the Covid 19 pandemic Soft Skills Training Program is conducted A short term program on Stress Management is conducted for support staff.

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

The institution was accredited with B? Grade by the NAAC March 03, 2015 . The College strives hard to sustain and enhance the quality in all spheres for the past five years and resulted in a B Plus Plus Grade on 11.03.2020 during the second cycle of accreditation. After Accreditation, IQAC developed templates to streamline the academic and administrative processes and contributed to the fixing of benchmark norms in every aspect. To provide 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 and patents. The use of ICT (information and communication technologies) tools in education and training has become part and parcel of the Teaching learning process. Complete administration and teachinglearning process is automated with the software CAMU.

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
2019	Regular Meetings of IQAC	15/07/2019	15/07/2019	15/07/2019	15
2019	Regular Meetings of IQAC	04/10/2019	04/10/2019	04/10/2019	15
2019	Regular Meetings of IQAC	22/01/2020	22/01/2020	22/01/2020	15
2019	Autonomous Inspection	19/10/2019	19/10/2019	20/10/2019	250
2019	Alumni meet	28/12/2019	28/12/2019	28/12/2019	85
2020	ISO certif ication	28/01/2020	28/01/2020	28/01/2020	30
2020	NAAC Inspection	05/03/2020	05/03/2020	06/03/2020	250

i	To rticipate .n ARIIA	18/08/2020 18/08/2020			18/08/2020 1		15		
			<u>View</u>	File					
RITERION VII – INS		L VALUE	S AND	BEST PR	ACTIC	ES			
1 – Institutional Valu									
.1.1 – Gender Equity (N ear)	lumber of geno	der equity p	promotio	n programm	es orga	nized by	the institu	tion d	uring the
Title of the programme	Period from	n Period To			Number of Participants				
					F	emale		Ν	Male
Pongal Festival	10/01/2	020	10/03	1/2020		46			125
Power Walk- Safe guard of constitutional rights of women	14/02/2	020	14/02	2/2020		75		25	
International Women's Day	07/03/2	020	07/03	3/2020		75			25
Stress Management	28/02/2	020	28/02	2/2020		46			145
7.1.2 – Environmental C	onsciousness	and Sustai	nability/A	Iternate Ene	ergy initi	iatives s	uch as:		
Percentage	e of power requ	irement of	the Univ	ersity met b	y the re	newable	energy so	ources	5
			able en	nergy to	cater	to th	e needs	of	
increasing ene connected to the number of units the grid thus say	ergy requin grid (APGI generated ving the e by the	rement. ENCO). T through lectrica renewabl	able en 400 KW Thus th our pi 1 ener 1e ener	nergy to P Solar 1 e institu lant and	cater Power ution the b entage	to th Unit w avails alance of po	e needs vas inst s the be units a ower req	of alle enefi are	ever ed and it by the given to
increasing end connected to the number of units the grid thus say 7.1.3 - Differently abled	ergy requir grid (APGI generated ving the ei by the (Divyangjan) fi	rement. ENCO). T through lectrica renewabl	able en 400 KW Thus th our p 1 ener 1e ener	nergy to P Solar D e institu lant and gy. perce rgy source	cater Power ution the b entage	to th Unit w avails alance of po 77.65	e needs vas inst s the be units a ower req	of calle enefi are quire	ever ed and it by the given to ement me
increasing end connected to the number of units the grid thus say 7.1.3 - Differently abled Item facilitie	ergy requir grid (APGI generated ving the el by the (Divyangjan) fi	rement. ENCO). T through lectrica renewabl	able en 400 KW Thus th our pi 1 ener 1e ener	nergy to P Solar D e institu lant and gy. perce rgy source	cater Power ution the b entage	to th Unit w avails alance of po 77.65	e needs vas inst s the be units a ower req	of calle enefi are quire	ever ed and it by the given to ement me
increasing end connected to the number of units the grid thus say 7.1.3 - Differently abled Item facilitie Physical fac	ergy requir grid (APGI generated ving the el by the (Divyangjan) fi es ilities	rement. ENCO). T through lectrica renewabl	able en 400 KW Thus th our pi 1 ener 1e ener Yes, Yes,	Nergy to P Solar 1 Le institu lant and gy. perce rgy source /No	cater Power ution the b entage	to th Unit w avails alance of po 77.65	e needs vas inst s the be units a ower req	of calle enefi are quire enefic	ever ed and it by the given to ement me
increasing end connected to the number of units the grid thus say 7.1.3 - Differently abled Item facilitie Physical fac Provision fo	ergy requin grid (APGI generated ving the el by the (Divyangjan) fi es ilities or lift	rement. ENCO). T through lectrica renewabl	able en 400 KW chus th our pi 1 ener le ener Yes, Y	Nergy to P Solar 1 Le institution lant and gy. perce rgy source /No es	cater Power ution the b entage	to th Unit w avails alance of po 77.65	e needs vas inst s the be units a ower req	of calle enefi are quire enefic 1	ever ed and it by the given to ement met
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needy

<u>View File</u>

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

1. E-waste management: The condemned batteries and damaged computers are disposed of through outside agencies. The low-configuration computers are donated to Bapatla Public School, Bapatla. Other recyclable Ewaste materials are properly disposed of by a local vendors. 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 include 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 the 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. The college has an area of 33 acres and 09 blocks, gardens, plantations, playgrounds, lawns etc., and is situated in a more than average rainfall region. It is imperative that a proper rain harvesting system is installed on the campus. A comprehensive plan for the rainwater harvesting system is being followed and implemented within the campus. Three types of rain harvesting systems 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 on the campus and thus building an Eco-friendly atmosphere. For street lighting on 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 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.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE-I 1. Title of the Practice Distribution of Evaluated Semester End Examination scripts to students for browsing. 2. Objectives of the Practice The objective of this practice is to assure the student that the evaluation system is objective and meticulous. The practice obviates the debatable provision for "revaluation" by paying an additional fee. The Scheme of Evaluation is displayed in the web site and is notified to the students before the distribution of the scripts for perusal by the students. The Scheme of Evaluation facilitates uniformity in evaluation across multiple examiners. The students can verify whether the valuation is in accordance with the Scheme of Evaluation and seek clarifications. The evaluation system becomes more transparent and enhances the accountability of the examiners. 3. The Context The conventional evaluation system is often vulnerable for criticism by the students who complain that they got less marks than what they expected. Another

misconception carried by the students is that the evaluation system is not uniform due to the participation of multiple examiners in the evaluation process. To alleviate the complaints of the students, the students are allowed to browse the scripts and/or to apply for the revaluation of their scripts by charging an additional fee which is normally prohibitive. However, such a provision relates to the affordability by the students and makes natural justice questionable. An occasional increase in marks in the revaluation gives scope for quick generalization that the evaluation system is improper and irresponsible. An evaluation system that makes the Scheme of Evaluation overt and provides access to the evaluated answer scripts to the students without collecting any additional fee shall dispel all kinds of misconceptions. 4. The Practice An often criticized and bottleneck in the evaluation system of higher education is "revaluation". The fees are exorbitant and many educators believe that the system endangers 'Natural Justice". The process is belated and hinders the time schedules of related academic activities like publishing of results and promotion/detention of students. An unanswered just question till today is, "What should be the curative action if the marks of the student increase in revaluation?". Moreover, the revaluation system exposed many unethical practices in the past as evident from news. A vigilant revaluation system may be the solution but it demands for more human resources, further time delays and several other overheads. The college examinations and evaluation committee critically analysed the prevailing scenario of revaluation and concluded that the practice of revaluation needs to be annulled. The committee also recognised the just right of every student to browse his/her evaluated answer script of the Semester End Examinations. The students shall also be granted the privilege of seeking clarifications regarding the evaluation, if any. The committee concluded that the best solution to meet all these observations, though challenging, is the distribution of the answer scripts to the students. The practice is unique of its kind in the state and has phenomenally improved the credibility and respect towards the evaluation process in the campus. 5. Evidence of Success The evidence of success of this practice is more of qualitative rather than quantitative. The practice does not give room to any kind of unethical practices in evaluation. The feedback collected from the students shows that they abundantly acclaim the practice. The small number of clarifications sought during the distribution of scripts shows that the evaluation system is more robust, objective and uniform. The practice also proves that the teaching learning process is effective in attaining learning outcomes. BEST PRACTICE-II 1. Title of the Practice Holistic Academic Ecosystem 2. Objectives of the Practice The Holistic Academic Ecosystem is a set of cohesive academic practices that design, implement, monitor and audit regular and periodic academic activities to improve the quality of education. The objectives of the system are. 1. Program review by stakeholders to align with Program Outcomes. 2. Dynamic curriculum to meet the industry needs. 3. Orientation programs to accommodate change. 4. Teaching-learning process according to the documented course plans. 5. Periodic academic audits. 6.Correlation of assessment and examination with Learning Outcomes. 7.Mentoring and remedial measures for improvement of student performance. 8.Feedback systems to improve teaching methodologies 9. Practical training. 3. The Context The conventional academic system is content based, rigid, teacher centered and merely evaluates reproduction capabilities of the student. The present era of globalization demands for graduates who are industry-ready, innovative in designing solutions to real word problems, poised to work in global teams. In fact, such accomplished graduates contribute to the academic wealth of the nation. These requirements advocate for a holistic academic system built on well-designed academic policies for tractability and shall be immune to changes in the academic and administrative roles. The system shall encompass the stakeholders' viz., employers, faculty, students and parents as its integral part. The key systems and processes that define a holistic academic system are

- Program review policy, benchmarking policy, teaching-learning policy, research policy, academic audit policy, assessment and examination policy, student mentoring policy, internship policy, feedback systems, and academic regulations. 4. The Practice The Program Development and Review Policy provides a framework for review and improvement of an existing program. The policy ensures that the program's activities are in line with the college vision, and mission and are in compliance with the requirements of quality assurance and accreditation. Bench Marking Policy evaluates a program while revising an existing program or developing a new program. It is carried out with Universities of high standard and high international ranking. It identifies the best graduate attributes, Learning Outcomes, the curriculum structure and the courses. The curriculum after approval by the Boards of Studies is presented to the Academic Council and any changes suggested are incorporated. The teaching learning policy is implemented by the Head of the Department who is the exofficio member of the academic monitoring team. The academic monitoring team in association with the class coordinators, section coordinators and course coordinators monitors the quality of preparation and implementation of course plans. The course plan comprises of learning outcomes, course objectives, course coverage, mapping with the programming outcomes and their assessment and evaluation. A comprehensive feedback on the course and the teacher is conducted at the end of each semester. An exit survey of each program is collected from the graduating students at the end of each academic year. The examination and evaluation policy guides the monitoring of the achievement of learning outcomes in every course/subject. The assessment is divided into continuous internal assessment by the course teacher through various assessment methods like classroom tests, home assignments and the final examination. The final examination is based on a question paper set by an internal/external examiner whose compliance with the learning outcomes is scrutinized. The scheme of evaluation is displayed in the website and the evaluated answer scripts of the final examination are distributed to the students. The Academic audit team conducts an audit in each department at the end of each semester in accordance with the audit policy. The mentoring policy is aimed at the counseling of the students on academic progress and the mentors communicate with the parents. Orientation Programs for first year students are conducted for three to four weeks at the beginning of every academic year. The students are made aware of the college vision, mission, regulations, the value systems and ethics to be followed. Special emphasis is given to enhance the communication skills and the bridge courses if needed. 5. Evidence of Success The holistic academic ecosystem was put in place for the last two academic years and is progressing towards the set objectives. The feedback surveys on the courses and curriculum collected from the current students, graduating students and the employers is helping the Program Review Committee in making the curriculum dynamic. The course plans are continuously improved for better teaching learning outcomes based on the feedback. The feedback on faculty is helping the Head of the Department in identifying the lacunae in teaching learning process and counsel the faculty for improvement. Best teacher awards are given to the faculty based on the feedback index and is contributing in developing a quality teaching ecosystem in the campus. The analysis of the Continuous Internal Evaluation identifies the students who are unable to cope up with the promotion requirements. Remedial classes are organized for such students. The success of the examination and evaluation system is evident from the attainment indicators of course and program objectives and outcomes. The evaluation system is acclaimed by the students as transparent and objective. The parents have expressed a great degree of satisfaction with the counselling of their wards and continuous communication about the progress of their wards.

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

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

Response: The College has taken the most important and distinctive activity to build the Centers of Excellence (CoE) to fulfill the vision statement of the College. "To build centers of excellence, impart high quality education and instill high standards of ethics and professionalism through strategic efforts of our dedicated staff, which allows the college to effectively adapt to the ever changing aspects of education" It has established a Research Park with three Research Centers: 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, and PLC, Sensorics, modular Mechatronics System (mMS), CNC controller, Motion Logic Drives and Automation Studio modules. Students of all branches master the automation technologies which are otherwise not available in any undergraduate curriculum and get industry-ready. Siemens Center of Excellence The center is an epitome of international standard software for design, modeling, analysis, manufacturing and project management. The students get trained and work on NX 8, Solid Edge, and FEMAP with NASTRAN, CAM Express, Technomatics-RobCAD, 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 under gone training at KUKA Robot Group, Pune for a period of one week and got trained in various applications of using robot. Collaborative Research with Industries: An Industry-Institution-Interaction Cell (I-I-I-C) is established in the College to look at purposeful interaction between Industry and institution to promote collaborative research with industries. The prime objectives of IIIC is 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, and short or long period deployment of faculty to Industry for gaining industrial experience and/or work on projects in Industry, It has so far written MOUs with eleven industries and two more are in pipeline. College is collaborating with them for research projects which include development of an automobile accessory design, an IOT design and fabrication, software development for new applications, etc. Our students and teachers take up the project from May this

year to May next year which may involve a six to eight week internship, first semester preparation work and the second semester full time work either at the industry or at the College. The faculty in-charge of the project takes the responsibility for deliverables. The Company engineers/executives continuously involve in guiding the student either physically or virtually along with the

faculty In-charge.

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 2020-2021, 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 industry based projects: The college has made it mandatory the internships to all students and making attempts to get them work on industry projects. 4. Research Activities: The research publications to faculty ratio should reach 1:1 by the end of next academic year. 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. Placements and Higher studies improvement The college will make necessary arrangements to improve placement/ Higher Education quality. 7. Improve the faculty strength to satisfy the faculty cadre ratio in all Departments and the number of faculty members with Ph. D. to 80.