Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**GUDLAVALLERU ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr. POTLURI RAVINDRA BABU**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08674273737**
Mobile no.	**9848779124**
Registered Email	**principal@gecgudlavalleru.ac.in**
Alternate Email	**office@gecgudlavalleru.ac.in**
Address	**SESHADRI RAO KNOWLEDGE VILLAGE Penjendra Road Gudlavalleru**
City/Town	**Gudlavalleru**
State/UT	**Andhra Pradesh**
Pincode	**521356**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**19-Jun-2014**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. M. Kamaraju**
Phone no/Alternate Phone no.	**08674273737**
Mobile no.	**9849157394**
Registered Email	**principal@gecgudlavalleru.ac.in**
Alternate Email	**office@gecgudlavalleru.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://gecgudlavalleru.ac.in/images/admin/pdf/1593497061_AQAR2017-18.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://gecgudlavalleru.ac.in/academic_calendar

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.07**	**2016**	**29-Mar-2016**	**28-Mar-2021**

6. Date of Establishment of IQAC

02-Jul-2014

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
Faculty - Workshop on Aeronautical Navigational System	02-Apr-2018 3	45
lecture on Aeronautical Navigational System	29-Mar-2019 1	46
Python Programming with IoT applications (Certification Program)	18-Feb-2019 2	60
Lecture on Development of Mobile Services in India	24-Aug-2018 1	55
Faculty - Online Training on Artificial Intelligence	06-May-2019 19	48
Lecture on Machine Learning & Deep Learning	30-Jul-2018 1	35
Faculty - Training on Data Science and Big Data Analytics and Cloud Infrastructure and Services	07-May-2018 5	45
Faculty - Workshop on Application of Artificial Intelligence and Soft Computing Techniques to Electrical Engineering	13-Nov-2018 5	40
FDP on Machine Learning Applications in Signal Processing	04-Feb-2019 5	60
Student - Workshop on Tall Building Design using E-TAB	12-Oct-2018 2	109
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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/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
NIL	NIL	NIL	2019 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File

10. Number of IQAC meetings held during the year :	**4**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

Arranging Faculty Development Programs on written and oral English communication to the newly admitted faculty

Conducting workshops on latest technologies for faculty and students, like IOT, Big Data Analytics.

Providing Hands-on Training on latest software tools to the students.

Conducting workshops on Outcome Based Education.

Arranging skill development programs to the students.

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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
More awareness on Bloom's Taxonomy	Most of the faculty are preparing question papers for the students in the directions of Bloom's Taxonomy execution.
Teaching – Learning innovative methods	Faculty using the technology based tools to teach the subject in effective manner.
Conduct skill development programs for the students	Students are succeeded in campus placements
Organize the International conference in emerging areas	Some of the departments come forward to conduct the Conference with possible publication in scopus indexed
Industrial training for the faculty	Faculty attending industrial training programs during summer vacation.

14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
College Management Committee	25-Aug-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No

16. Whether institutional data submitted to AISHE:	Yes

Year of Submission	2019

Date of Submission	24-Jan-2019

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)	Institution is Managing Information System (MIS) through ECAP software. The data pertaining to faculty, staff and students is made available in this system. The transparent communication is in place through this MIS. Parents can track the attendance and performance of their ward, officials can monitor the class work, organization of training programs, workshops, etc. and other activities of the college. Students counselling and guidance is possible in this system. The issue and return of the library books can also be done through this MIS. The details regarding the fee payments, dues can be read. The following are the Mainmodules incorporating in this MIS. 1. Admin 2. Admissions 3. Academics 4. Examinations 5. Employee 6. Correspondence The following are the Submodules incorporating in this MIS. 1. Admin : Academic Calendar, College Details, Diary, Holidays, News Events, Circulars, Library Books, Leaves History 2. Admissions : Admission Register, Circular, Library Books, Leaves History 3. Academics : Absentees Report, Academic Register, Attendance Report, Counselling, Current Time

Table, Disciplinary Action, Faculty, Internal Marks, Leaves, Lesson Plan, Projects, Resources, Students, Student Profile, Syllabus Coverage, Teaching Plan, Teaching Schedule, etc. 4. Examinations : Examination Schedule, External, Internal, Invigilation Charges, etc., 5. Employee : Leave Management, Payroll, Report, etc. 6. Correspondence : Complaint / Suggestions, Greetings, Inbox, Parents Address, Parent Correspondence, Staff list, Students List, etc.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	001	Civil Engineering	12/07/2018
BTech	002	Electrical and Electronics Engineering	12/07/2018
BTech	003	Mechanical Engineering	12/07/2018
BTech	004	Electronics and Communication Engineering	12/07/2018
BTech	005	Computer Science and Engineering	12/07/2018
BTech	012	Information Technology	12/07/2018
Mtech	087	Structural Engineering	04/09/2018
Mtech	054	Power Electronics and Electric Drives	04/09/2018
Mtech	015	Machine Design	04/09/2018
Mtech	055	Embedded Systems	04/09/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Mini Project / Survey Camp	12/07/2018	CE2547	12/07/2018
BTech	Data Structures	12/07/2018	CT2505	12/07/2018
BTech	Cyber laws	12/07/2018	IT2506	12/07/2018

BTech	Problem Solving through Computer Programming	12/07/2018	CT2502	12/07/2018
BTech	Professional Communication	12/07/2018	EG2503	12/07/2018
BTech	Cyber Physical Systems	12/07/2018	EC2563	12/07/2018
BTech	Repair and Retrofitting Techniques	12/07/2018	CE2562	12/07/2018
BTech	Digital Forensics	12/07/2018	CS2521	12/07/2018
BTech	Power Plant Instrumentation	12/07/2018	EE2532	12/07/2018
BTech	Web Programming	12/07/2018	IT2502	12/07/2018

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	VLSI Design & Embedded Systems	04/09/2018

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Civil Engineering	12/07/2018
BTech	Electrical and Electronics Engineering	12/07/2018
BTech	Mechanical Engineerign	12/07/2018
BTech	Electronics and Communication Engineering	12/07/2018
BTech	Computer Science and Engineering	12/07/2018
BTech	Information Technology	12/07/2018
MBA	Master of Business Administration	16/08/2018
Mtech	Structural Engineering	04/09/2018
Mtech	Power Electronics and Electric Drives	04/09/2018
Mtech	Machine Design	04/09/2018
Mtech	Embedded Systems	04/09/2018
Mtech	Computer Science and Engineering	04/09/2018

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Engineer and Society /Fine Arts/Yoga/Self Defence/NSS / Sports and Games / Cultural Activities	12/07/2018	2622
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	184
BTech	Electrical and Electronics Engineering	184
BTech	Mechanical Engineering	97
BTech	Electronics and Communication Engineering	279
BTech	Computer Science and Engineering	272
BTech	Information Technology	105
MBA	Master of Business Administration	95
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Feedback of students on teaching of the courses, feedback of the students on curriculum and CO, PO, PSOs PEOs, Exit feedback of students, feedback of parents, feedback of stakeholders are in place. Feedback of students on the teacher will be obtained twice in a semester on various parameters those influence teaching – learning process. The voice of the students on each parameter are analysed and relevant suggestions and guidance will be given to the teacher concerned. Further, the teacher is monitored on the corrective measures implemented for increasing the effectiveness of teaching and enhancing learnability of the students. In the process of effective implementation of OBE, the views of the students, experts from academia and industry will be obtained on Vision, Mission, PEOs. PSOs, POs and COs and the opinions and suggestions are analysed and considered as input in defining / redefining them.

At the end of the final year, the exit feedback will be obtained from the students on academic and administrative parameters also. Their unbiased observations will be considered in modifying the policies and procedures. The feedback of Parents will also be periodically obtained and analysed for arriving at the corrective measures for betterment of learning environment of the college.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	180	0	107
BTech	Electrical and Electronics Engineering	120	0	87
BTech	Mechanical Engineering	180	0	140
BTech	Electronics and Communication Engineering	240	0	256
BTech	Computer Science and Engineering	240	0	257
BTech	Information Technology	120	0	128
Mtech	Structural Engineering	24	0	17
Mtech	Power Electronics and Electric Drives	24	0	5
Mtech	Machine Design	24	0	8
Mtech	VLSI Design and Embedded Systems	24	0	4

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1208	38	241	35	0

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
277	275	5	53	53	5

View File of ICT Tools and resources
View File of E-resources and techniques used

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

The students are mentored on academic issues with a systematic mentoring mechanism and counselling process. Peer mentoring mechanism is also functioning effectively. One faculty member is allotted to 20 students for counselling and mentoring on academic, personal issues. In-addition to the internal source of mentoring, one male and one female, external expert counsellors are on board to conduct mass counselling and personalized mentoring. Each class having a strength of 60 students will be taken care by faculty as class teacher. A senior faculty takes care of the entire class as Academic Coordinator. Students pursuing online courses like NPTEL will be mentored by a faculty expert in the respective domain. Mentor faculty guides students to solve assignments and monitor their preparation. Potential and enthusiastic students are mentored for presenting papers and posters in technical symposia, participating in youth festivals, developing models and Apps, participating in Hackathons. Junior students will be guided and mentored by senior students on co-curricular and extra-curricular aspects. Faculty advisors will motivate and guide students to organize service activities. Focus of the institution is to achieve whole some development of students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4987	340	14.66

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
340	321	19	21	43

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. P. Kodanda RamaRao	Professor	Best Civil Engineering Teacher by ISTE (A.P) chapter
2018	Dr. P. Kodanda RamaRao	Professor	Chairman of AP State IEI
2018	Mr. A. H. L. Swaroop	Associate Professor	Executive body member, AP State, IEI
2018	Dr. M. Siva Kumar	Professor	Recognised as BoS Member of JNTUK, Kakinada
2018	Dr. A. V. N. Tilak	Professor	Best ECE teacher in AP, by ISTE

2018	Dr. M. Kamaraju	Professor	Certificate of Excellence Award – IE (I), APSC, Vijayawada

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	AO	2 Year 1 Semester	24/11/2018	29/11/2018
BTech	A0	1 Year 1 Semester	14/12/2018	18/12/2018
BTech	A0	1 Year 2 Semester	10/05/2019	20/05/2019
BTech	A0	2 year 2 Semester	04/05/2019	22/05/2019
BTech	A0	3 Year 1 Semester	23/11/2018	03/12/2018
BTech	A0	3 Year 2 Semester	04/05/2019	20/05/2019
BTech	A0	4 Year 1 Semester	26/11/2018	03/12/2018
BTech	A0	4 Year 2 Semester	13/04/2019	22/04/2019
Mtech	1D	1 Semester	28/01/2019	18/02/2019
Mtech	1D	2 Semester	19/07/2019	05/08/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	9588	0

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)

https://gecgudlavalleru.ac.in/departments

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage

55	Mtech	Embedded Systems	10	9	90.00
15	Mtech	Machine Design	13	13	100.00
54	Mtech	Power Electronics and Electric Drives	8	7	87.50
87	Mtech	Structural Engineering	19	19	100.00
12	BTech	Information Technology	106	97	91.51
05	BTech	Computer Science and Engineering	272	250	91.91
04	BTech	Electronics and Communication Engineering	276	260	94.20
03	BTech	Mechanical Engineering	210	185	88.10
02	BTech	Electrical and Electronics Engineering	202	185	92.58
01	BTech	Civil Engineering	202	180	89.11
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2.7 – Student Satisfaction Survey

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

https://gecgudlavalleru.ac.in/images/admin/pdf/1591687594_Student%20Satisfaction%20Survay%202018-19.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

Yes
Name of the teacher getting seed money
Dr. L. Ravi Srinivas and Mr. B. Mahesh Babu
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	NA	NA	03/12/2018	NA
International	NA	NA	03/12/2018	NA

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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Total	2	In-house R and D	994832	994832
Any Other (Specify)	0	0	0	0
InternationalPr ojects	0	0	0	0
Students Research Projects (Other than compulsory by the University)	0	0	0	0
Projects sponsored by the University	2	In-house R and D	994382	994382
Industry sponsored Projects	0	0	0	0
Interdisciplina ry Projects	0	0	0	0
Minor Projects	0	0	0	0
Major Projects	0	0	0	0

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

2

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop on System Verilog using FPGA	Electronics and Communication Engineering	09/08/2018
Guest Lecture on Communication navigation surveillance in air traffic control	Electronics and Communication Engineering	17/07/2018

Guest Lecture on Emergence of Digital Disruption - Challenges and Roadmap to Embrace	Electronics and Communication Engineering	19/07/2018
Python Programming by APSSDC	Computer Science and Engineering	13/05/2019
Artificial Intelligence, Machine Learning with Python	Computer Science and Engineering	06/05/2019
Amazon Cloud Services by APSSDC	Computer Science and Engineering	06/05/2019
One Week FDP on Machine Learning And Deep Learning	Computer Science and Engineering	01/05/2019
Cloud Computing	Computer Science and Engineering	30/03/2019
Full stack Udacity	Computer Science and Engineering	29/12/2018
Career guidance and latest trends and technologies in IT industry	Computer Science and Engineering	26/12/2018
Engineering orientation program	Computer Science and Engineering	10/12/2018
Internet of Things with IBM Watson	Computer Science and Engineering	26/11/2018
How to Write a Good Research Paper	Computer Science and Engineering	23/11/2018
Full Stack development	Computer Science and Engineering	24/09/2018
Digital customer experience	Computer Science and Engineering	15/09/2018
Front end foundations	Computer Science and Engineering	11/09/2018
Ethical hacking	Computer Science and Engineering	07/08/2018
Machine learning deep learning	Computer Science and Engineering	30/07/2018
Python workshop for everybody	Computer Science and Engineering	14/05/2018
Cloud architect	Computer Science and Engineering	12/05/2018
Data science and big data analytics	Computer Science and Engineering	07/05/2018
Cloud infrastructure and services	Computer Science and Engineering	07/05/2018
COMMODITY TALK	Master of Business Administration	28/11/2018

"Motivational Talk"	Master of Business Administration	07/09/2018
"Perception and Perspectives of Pedagogy – The Role of Case Study in Management Education"	Master of Business Administration	17/08/2018
Guest lecture on "Recent Trends and real time issues on power system" Er.M.Narayana Prasad, Industry Expert	Electrical and Electronics Engineering	28/03/2019
Guest Lecture on "Operation of Thermal Power Plants" By Sri. Er.V.SrinivasaRao, ADE, APGENCO	Electrical and Electronics Engineering	15/09/2018
Three day Work Shop on "Fundamentals of PLC Phase II" By APSSDC Team	Electrical and Electronics Engineering	04/09/2018
Adjunct faculty programme on "Industrial Familiarization Programme" by B.Raju DE,K.T.P.S Paloncha.	Electrical and Electronics Engineering	20/08/2018
Adjunct faculty programme on "Industrial Familiarization Programme" by B.Raju DE,K.T.P.S Paloncha	Electrical and Electronics Engineering	02/08/2018
Guest lecture on "Aeronautical Navigational System"	Electronics and Communication Engineering	29/03/2019
Guest lecture on Signal Treatment and Analysis	Electronics and Communication Engineering	28/03/2019
Article Collection	Electronics and Communication Engineering	18/03/2019
One day workshop on Making of Electronic Circuits	Electronics and Communication Engineering	16/03/2019
Two day workshop on "DRONES"	Electronics and Communication Engineering	18/01/2019
A three day workshop on Frontend Foundations	Electronics and Communication Engineering	19/09/2018
Python Programming with IoT applications (Certification Program)	Electronics and Communication Engineering	18/02/2019
Guest Lecture on Awareness on telecommunication engineering	Electronics and Communication Engineering	15/09/2018
A six day workshop on	Electronics and	06/09/2018

Google Android Developer Fundamentals	Communication Engineering	
Guest Lecture on Development of Mobile Services in India	Electronics and Communication Engineering	24/08/2018

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Innovative Prototype Designing in WIDTH (Workshop on Innovation Design Thinking)	Mr. Irshad (16481A05D4)	University College of Engineering Kakinada	20/03/2019	Student Poster Presentation
Innovative Prototype Designing in WIDTH (Workshop on Innovation Design Thinking)	Mr. Ramana (16481A05C9)	University College of Engineering Kakinada	20/03/2019	Student Models Presentation
Best Electrical and Electronics Engineering Student	Mr.B.V.V.Ganesh Reddy	ISTE, A.P. Section	18/03/2019	Student

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NA	NA	NA	XLr8 Andhra Pradesh TECHNOLOGY BUSINESS ACCELERATOR	As an Entrepreneur	25/10/2018

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Civil Engineering	2
Electrical and Electronics Engineering	2
Mechanical Engineering	1
Computer Science and Engineering	2
Master of Business Administration	2
Basic Sciences and Humanities	3

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	28	11.05
International	Electrical and Electronics Engineering	2	2.58
International	Mechanical Engineering	24	7.62
International	Electronics and Communication Engineering	25	8.0
International	Computer Science and Engineering	4	1
International	Information Technology	5	4.54
International	Basic Sciences and Humanities	14	0
National	English	3	0
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Computer Science and Engineering	14
Electronics and Communication Engineering	8
Electrical and Electronics Engineering	17
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Artificial Intelligence Based Method for Computer-Aided Progressive Die Design	Published	201941037055	20/09/2019
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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
Evaluation of drainage and surface water	A.V. Phani Manoj	International Journal of Recent Technology and Engine	2018	0.09	Gudlavalleru engineering college	9

resources of bhramay yalingam lake in agirapalli mandal, Krishna District India using Geo spatial te chnologies		ering				
Efficient Approach for Linear ization of Mixed Signal in Radio- Frequency Receiver Circuits	Veera Punnaiah Manda	Internatio nal Journal of Engineerin g Technology	2019	0.135	Gudlavalle ru Enginee ring College	292
Design a Glitch Tolerant Adiabatic Dynamic Logic Circuits for Crypto graphy	N.V.Appara o	Internatio nal Journal of Engineerin g Technology	2018	0.135	Gudlavalle ru Enginee ring college	292
Wearable Antennas Using Different Substrates	Dr. D.Prab hakar	Internatio nal Journal of Engineerin g and Advanced Technology	2019	0.13	Gudlavalle ru Enginee ring College	61
Flexible Microstrip patch Antennas Using Different Substrates for Bio- Medical Ap plications	Dr. D.Prab hakar	Internatio nal Journal of Innovative Technology and Exploring Engineerin g (IJITEE)	2019	0.08	Gudlavalle ru Enginee ring College	21
Flexible Microstrip patch Antennas Using Different Substrates for Bio-	Dr. Ch.Bal aswamy	Internatio nal Journal of Innovative Technology and Exploring Engineerin	2018	0.08	Gudlavalle ru Enginee ring College	21

Medical Applications		g (IJITEE)				
Cross layered based Adaptive Secured Routing and Data transmission in MANET	Dr. Ch.Balaswamy	International Journal of Mobile Network Design and Innovation	2019	0.115	Gudlavalleru Engineering College	45
Wearable Antennas Using Different Substrates	Dr. .V.K.D.V.Prasad	International Journal of Engineering and Advanced Technology	2019	0.13	Gudlavalleru Engineering College	61
Low power flip-flop design using tri-state inverter logic	Dr. M.Kamaraju	Journal of Low Power Electronics	2019	0.14	Gudlavalleru Engineering College	57
Performance Evaluation of Stochastic Mobility Model and Trace based Mobility Model for MANETs	Dr. Ch.Balaswamy	Journal of Adv Research in Dynamical Control Systems	2018	0.112	Gudlavalleru Engineering College	282
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A novel model reduction approach for linear time-invariant systems via enhanced PSO-DV	Dr. M. Siva Kumar	Journal of Systems and Control Engineering	2019	40	0	Gudlavalleru Engineering College

algorithm and improved MPPA method						
Experimental implementation of Flower Pollaination Algorithm for speed controller of a BLDC motor	Dr.K.Alice Mary	Ain Shams Engineering Journal .Elsevier	2019	0	1	Gudlavalleru Engineering College
Interconnected multi-machine power system stabilizer design using whale optimization algorithm	B.Dasu Dr. M. Siva Kumar	Protection and Control of Modern Power Systems	2019	0	4	Gudlavalleru Engineering College
Design of Robust Stabilizing PI/PID Controller for time delay Interval Process Plants Using Particle Swarm Optimization	Dr. M. Siva Kumar D.Srinivasa Rao	Advances in Systems Science and Applications	2018	8	1	Gudlavalleru Engineering College
Cross layered based Adaptive Secured Routing and Data transmission in MANET	Dr. Ch.Bala swamy	International Journal of Mobile Network Design and Innovation	2019	10	0	Gudlavalleru Engineering College
Enhancement Of Power Quality Based On DE, HDE VSHDE Algorithm	B.Mahesh Babu Dr.L.Ravi Srinivas	Journal of Electrical Engineering	2018	6	6	Gudlavalleru Engineering College

Incorporating DVR							
Accurate characterization of crack in beam like structures using square of curvature mode shape: without baseline data	L.Ramesh	Journal of mechanical engineering research developments (JMERD)	2019	1	0	Gudlavalleru Engineering College
DFTDT: Distributed Functional Tangent Decision Tree For Aqua Status Prediction In Wireless Sensor Networks	Dr. Ch. Sureshbabu	International Journal of Machine Learning and Cybernetics	2018	3	10	Gudlavalleru Engineering College
Performance and emission analysis of diesel engine with design modifications on piston crown	Dr.J. A. Ranga Babu	International Journal of Ambient Energy, Taylor and Francis	2018	0	0	NIT Warangal
Design a Glitch Tolerant Adiabatic Dynamic Logic Circuits for Cryptography	N.V.Apparao	International Journal of Engineering Technology	2018	20	0	Gudlavalleru Engineering College
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	12	189	52	159

Presented papers	58	11	0	0
Resource persons	0	4	1	9

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Inspection report of five spanned single lane R.C deck slab bridge on Sankaraguptam drain near Keasavadasupalem, Leading to Chintalamuri, East Godavari District A.P, SD-1	Sri S. Lakshmi Ram, DGM (Civil), ONGC, Base Complex, Rajahmundry, E.G. District	43000
Civil Engineering	Soil and water testing PH and chloride tests	The DGM Production, ONGC, Rajahmundry	16800
Civil Engineering	testing and providing CBR values of soil by conducting compact test " Collection of soil samples and conducting leveling survey of designing of 8km long road from KW#843 D/s Sankaraguptam centre located at Kesanapalli – Antervedi palem, East Godavar	Sri S. Lakshmi Ram, DGM (Civil), Godavari Bhavan, ONGC KG-Rajahmundry E.G.District, A.P.	90565
Civil Engineering	Formation of flexible pavement of 8km long road from KW# 8 43 D/s to Sankaraguptam centre located to Kesanapalli	Sri S. Lakshmi Ram, DGM (Civil), Godavari Bhavan, ONGC KG-Rajahmundry, E.G. District, A.P.	51920
Mechanical Engineering	Stir Casting Machine	S.R.K.R. Engineering College, Bhimavaram	13000
Mechanical Engineering	Stir Casting, Micro Structure, Hardness Tester, Wear Tester, UTM	GEC, Gudlavalleru	14000

Civil Engineering	Design of ONGC rig foundations	Sri P.Vidhya Sagar, DGM (Civil), ONGC, Rajahmundry Sri D.V.S.RAMA RAO, Contractor, Chinchinada	95000
Civil Engineering	Sub soil investigation	Sri D.V.S.RAMA RAO, Contractor, Chinchinada Sri Ch.RamaKrishna, D.No.4/345, 4/346, Rajupeta, Machilipatnam-521001 and Sri Siva Prasad Nandina Geoseva Pvt.Ltd., Nizampet, Hyderabad-500090	124600
Civil Engineering	NDT tests	Anjaniputra construction, D.No.302/6-265, Gollalakoderu Village, Palakoderu Mandal, W.G. District.	7500
Civil Engineering	Design of Abutments for the erection of Bailey bridge across Thangulavaripalem drain near Nagayalanka, Krishna District	Sri S. Lakshmi Ram, DGM (Civil), ONGC, Base Complex, Rajahmundry, E.G. District	15000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NA	NA	NA	0	0
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Plastic Free village campaign	NSS	10	150
Health Camp	NSS	16	450
Computations Conducted in Z.P.H.School	NSS	16	303

Clean Green Program and Plantation	NSS	24	518
Janma Bhumi Maa Vuru	NSS	18	400
NSS Band Team March Past	NSS	10	222
Awareness Programme on Traffic Rules and Regulations	NSS	19	460
Graduation Day Celebrations	NSS	25	426
Health Tips	NSS	16	278
Awareness Programme on Fire accidents	NSS	14	358
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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
Indian innovation Design contest2019	Participation certificate	DST Texas Instruments	5
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat	Gudlavalleru Engineering College	Janma Bhumi Maa Vuru	18	400
Swachh Bharat	Gudlavalleru Engineering College	Clean Green Program and Plantation	24	518
Swachh Bharat	Gudlavalleru Engineering College	Computations Conducted in Z.P.H.School	16	303
UnnathBharat abhiyan	Gudlavalleru Engineering College	Village survey and Household survey	12	775
Unnatha Bharat abhiyan scheme	MHRD Govt. of India	Village survey and house hold survey	16	433
Unnatha Bharat abhiyan scheme	MHRD Govt. of India	Plastic Free village campaign	10	150
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Project – "Embedded System for Child rescue from bore wells"	15481A0431, 15481A0418, 15481A0408, 16485A0408	Gudlavalleru Engineering College	201819
Project – "Track Bot assistance for Industries	15481A04N6, 15481A04I7, 15481A04L9, 16485A0446	Gudlavalleru Engineering College	201819
Project – "Finger Print based Electronic Voting System using IOT	15481A04F3, 15481A04G5, 15481A04E6, 15481A04H1	Gudlavalleru Engineering College	201819
Project – "The Embedded based power Theft analyser"	15481A0432, 15481A0449, 15481A0444, 15481A0415	Gudlavalleru Engineering College	201819
Project – "Automatic Solar Grass Cutter"	15481A0404, 15481A0440, 16485A0410	Gudlavalleru Engineering College	201819
Project – "Smart Electronic Shopping Basket"	15481A0435, 15481A0414, 16485A0420	Gudlavalleru Engineering College	201819

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Training	AP State Housing Corporation	06/05/2019	01/06/2019	1
Internship	Training	Jayadurga consultancy	06/05/2019	01/06/2019	32
Internship	Training	Vizay Steel Plant	06/05/2019	01/06/2019	21
Internship	Training	RS builders Developers	06/05/2019	01/06/2019	4
Internship	Training	National Small Scale Industries Corporation Ltd., Technical Services Centre	06/05/2019	05/06/2019	29

Internship	Training	Bhaarath Sanchaar Nigam Ltd	06/05/2019	01/06/2019	30
Internship	Industrial Training	BEL, Machili patnam	06/05/2019	29/06/2019	12
Internship	Industrial Training	BSNL, Vijayawada	06/05/2019	29/06/2019	93
Internship	Industrial Training	ECIL, Hyderabad	06/05/2019	29/06/2019	17
Internship	Industrial Training	Microlink, Peripheral Controls Pvt. Ltd , Vijayawada	06/05/2019	29/06/2019	35

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Hitech Automation, Vijayawada	01/04/2019	Development and up gradation of technology in the fields of PLC applications, instrumentation, measurements, industry automation and closed loop controllers.	10
Voltino Systems LLP, 3-13-112/A, Srinivasapuram, Ramanathapura, Hyderabad-500013	06/03/2019	Development and upgradation of technology in the fields of design of power supplies, Industry Automation and PV Battery Chargers.	10
CodeTantra Tech Solutions Pvt. Ltd., Hyderabad	09/11/2018	Interactive Teaching Platform	5000
Electronics and ICT Academy of NIT, Warangal	07/02/2018	Training	288
Andhra Pradesh State Skill Development Corporation	01/06/2018	Training	1270
Code Tantra, Hyderabad	24/11/2018	Training Classes for faculty, students and provide software	2400

	based on programming languages like C,C, JAVA etc.	
Germany Center for Engineering and Management Studies UG Aachen, European Center for Mechatronics APS GmbH Aachen	15/02/2019	Provides international research, training, academic programs and establish Advanced Robotic Labs.	2

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
0	247766

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
GECLib	Fully	8.05	2002
E-CAP	Fully	3.0	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	47238	18683972	1840	728640	49078	19412612

Reference Books	8656	4538859	235	94250	8891	4633109
e-Books	8700	548757	2000	19470	10700	568227
Journals	541	827354	131	184713	672	1012067
e-Journals	1251	4760261	1092	1077276	2343	5837537
Digital Database	20867	562129	4329	66198	25196	628327
CD & Video	11500	330000	500	10000	12000	340000
Library Automation	57	1380008	2	39000	59	1419008
Weeding (hard & soft)	778	194500	92	23000	870	217500
Others(specify)	105538	65902	2	19470	105540	85372

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.M.Sivakumar Sri.G.Balaji, Sri.B.Satish	DC Machines Transformers	Gudlavalleru Engineering College Library	03/08/2018
Dr.M.Sivakumar Sri.D.Srinivasa Rao Smt.JLSanthakumari	Electric Circuit Analysis	Gudlavalleru Engineering College Library	03/08/2018
Sri.Md.Rafikhan, Sri.B.Dasu, Sri.V.Pratap Babu	Power Systems-I	Gudlavalleru Engineering College Library	03/08/2018
Smt.CH.Sujatha Smt.CH.Trinayani Sri.M.Suresh	Electrical Machines-III	Gudlavalleru Engineering College Library	03/08/2018
Sri.E.Vargil Kumar Sri.B.Mahesh Babu Sri.K.Santhosh Kumar	Power Electronics	Gudlavalleru Engineering College Library	03/08/2018
Dr.G.Srinivasa Rao Smt.K.Vindhya Smitha Sri.J.Hema Sundar	Power System Analysis	Gudlavalleru Engineering College Library	03/08/2018
Dr.L.Ravi Srinivas Sri.Md.Rafi Khan Dr.K.Kalyan Raju	Utilization of Electrical Energy	Gudlavalleru Engineering College Library	03/08/2018
Sri.B.Dasu Dr.B.Madhu Kiran Sri.J.Kiran	Electrical Distribution systems	Gudlavalleru Engineering College Library	03/08/2018
Sri.A.Amarendra Dr.K.Kalyan Raju	Flexible AC Transmission	Gudlavalleru Engineering College	03/08/2018

| Sri.Y.Anil Kumar | Systems | Library | |
| Dr.M.Siva Kumar, Sri.G.Ramesh Sri.D.Vijay Arun | Control Systems | Gudlavalleru Engineering College Library | 03/08/2018 |

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1400	27	230	1	1	2	9	230	0
Added	120	3	50	0	0	0	0	50	0
Total	1520	30	280	1	1	2	9	280	0

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

280 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E-Content (Learning Material)	http://civil.gecgudlavalleru.ac.in/e_content
E-Content (Learning Material)	http://eee.gecgudlavalleru.ac.in/e_content
E-Content (Learning Material)	http://me.gecgudlavalleru.ac.in/e_content
E-Content (Learning Material)	http://ece.gecgudlavalleru.ac.in/e_content
E-Content (Learning Material)	http://cse.gecgudlavalleru.ac.in/e_content
E-Content (Learning Material)	http://it.gecgudlavalleru.ac.in/e_content

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
78.2	59.53	47.55	52.03

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

Institution devised definitive policies, procedures and mechanisms for the establishment, utilization and maintenance of physical, academic and support facilities. Mechanisms for maintaining building hygiene, toilet hygiene, water supply, power backup, medical facilities, etc., are formulated for efficient

functioning of the college. Faculty, staff and students are sensitized on the guidelinesmechanisms framed. Class Rooms: • Use of non-dust chalks. • Daily sweeping of class rooms. • Wet cloth cleaning of benches (at least twice a week). • Black board cleaning (with we cloth daily). • Provision of dustbins in each class room. Laboratories – Maintenance Utilization: • Preventive maintenance is followed. • Additional experiments are designed to utilize all the equipment available in the lab. • Periodical checkups and calibration of equipment in all laboratories. • Depending on the experiment, one, two or a maximum of three students perform a single experiment with common set of apparatus. • Stock verification is being conducted in all laboratories every year. Computing Facilities-Maintenance Utilization • Computing facilities are provided as per the AICTE norms, even extra computers are provided to meet the practical requirements. • Internet connectivity with a total of 280 Mbps band width is provided. • All the computer systems in the college are on LAN with OFC backbone. • Computing facilities are made available to the students for at least 12 hours a day and WiFi enabled facility is provided in a radius of 0.5 km. • A team of technicians with a faculty in-charge takes care for the maintenance of computers. • Necessary Licensed software are procured. • Servers like LINUX, WINDOWS, Web Servers, Database etc., are provided. • Additional projects are taken up by the students for optimum utilization of the facilities. Water: Sufficient and suitable water for utilities and drinking are provided. RO plants are installed for the supply of pure drinking water. Procedures for proper maintenance of the plant are followed. Electricity: HT supply is provided to the college. All electrical installations used to be certified for safety. Sufficient backup power supply is provided. Ample lighting, fans, air-conditioning are provided. They should be used frugally and when required, promoting the culture of avoiding unnecessary usage and promoting the culture of energy saving and economizing the energy cost. Periodical verification and maintenance of all the electrical installation will be done as a means of employee preventive maintenance. Medical facilities: Medical centre is established. Two part-time medical doctors and Two full-time medical assistants are appointed. First aid boxes are provided in all departments and sections. Ambulance is provided. Newly joined students will be given free vaccination against Typhoid, Hepatitis-B every year. Sports facilities: College provided adequate infrastructure for sports games, Gymnasium for ladies and gents is provided separately. Both indoor and outdoor games facilities are provided. Three physical directors are appointed for training the students. Coaching camps will be conducted with external expert resource persons. Enthusiastic students are provided with encouragement, support and motivational incentives. National level tournaments are also organized in the college.

https://gecgudlavalleru.ac.in/central_library/At-a-Glance

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	Poor Merit Scholarchip sponsored by Alumni Association, GEC	26	26000
Financial Support from Other Sources			
a) National	Fee Reimbursement GATE Stipend	3260	90729250

b)International	0	0	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Remedial coaching	09/07/2018	679	GEC Faculty
Bridge courses	17/07/2018	1440	GEC Faculty
Yoga	17/07/2018	965	RRI, Gudivada
Meditation	17/07/2018	965	RRI,Gudivada
Personal Counselling and Mentoring	02/07/2019	3272	GEC Faculty
NSS	02/07/2018	913	GEC NSS Faculty
Soft skill development	19/08/2019	1035	Q Logic Solutions, Talentio, Face, Six Phrase
Language lab	19/08/2019	811	GEC ELCS Lab

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	GATE	97	119	9	0
2019	GRE	45	0	14	0
2019	Placements	1007	0	0	662

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

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
NA	850	522	NA	625	133

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	4	B.Tech	IT	JNTUK & Andhra University	M.Tech
2018	10	B.Tech	CSE	JNTUK & Andhra University	M.Tech
2018	85	B.Tech	CE	JNTUK & Andhra University	M.Tech
2018	4	B.Tech	EEE	JNTUK Andhra University	M.Tech
2018	19	B.Tech	ECE	New York Institute of Technology, etc.	M.Tech, MS

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

Items	Number of students selected/ qualifying
GATE	15
GRE	5
Any Other	1

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

Activity	Level	Number of Participants
JNTUK Basketball (Women) team coaching camp	State Level	55
JNTUK Ball Badminton (Women) team coaching camp	State Level	12
JNTUK Basket Ball (Women) team coaching camp	State Level	12
JNTUK Table Tennis (Women) team coaching camp	State Level	5
Founder's Week Celebrations, GECFEST' 19 – Sports, Cultural Literary and Technical	National Level	1500
JNTUK Men Central Zone Inter Collegiate Inter Zonal Tournament`	State Level	743

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Shuttle badminton Runners	National	1	0	15481A0120	Ch.Poorna Sai
2018	Table tennis winners	National	1	0	15481A0163	K.V.Koteswara Rao
2018	Badminton - Overall champion ship trophy in JNTUK inter – Zonal inter collegiate	National	1	0	15481A0117	B.Hemachand
2018	Kho-kho - Overall champion ship trophy in JNTUK inter – Zonal inter colligate	National	1	0	15481A0148	I.Venkatesh
2018	Table tennis winners - Overall champion ship trophy in JNTUK inter – Zonal inter colligate	National	1	0	15481A0163	K.V.Koteswara Rao
2018	Volley ball - Overall champion ship trophy in JNTUK inter – Zonal	National	1	0	16485A0149	M.DurgaRao

2018	JNTUK C-ZONE Shuttle Badminton	National	1	0	16481A0376	K.NAVEEN
2018	JNTUK Inter-Zonal collegiate tournament Shuttle Badminton	National	1	0	16481A0376	K.NAVEEN
2018	JNTUK C-ZONE KHO-KHO	National	1	0	174810319	K.Prudvi sagar
2018	JNTUK C-Zone Inter Collegiate Men Tournament hosted by DIET, Vijayawada	National	1	0	18481A1284	P. Sri Raghu Ram
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Class Monitoring Committee (CMC) of each section is in place, which is composed of class representative, lady representative, representatives from different sections. The students of the class can bring their problems, needs, views on various issues to the notice of the CMC representatives. During CMC meetings conducted with faculty and head of the department, CMC representatives discuss the issues and the issues will be suitably resolved. The remedial measures will be implemented. Further, several students clubs like Green Club, Music Photography Club, Cultural Club, Innovation Startup Club, Coding Club, Technology Transfer, Quest, Literary Dramatic Club and Debate Club are established for enhancing the skills of students. Students are the members of Academic Council, Technolight-a Semi annual news letter, training and placement cell, committees for organizing annual day celebrations, GECFEST, Seminars, etc. to impart leadership skills among students. One of the prominent alumnus will be member of governing body.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association of Gudlavalleru Engineering College (AAGEC) was registered on 31st July 2012 under the A.P. Societies Registration Act 35 of 2001. Alumni Association of Gudlavalleru Engineering College was started in the year 2003. Objectives of the AAGEC: ? To bring together all the old students and the faculty of the college to share their experiences with each other. ? To maintain and update the database of all the alumni of the college and to interact with them. ? To utilize the rich experiences of old students of the college for the benefit and progress of the present students. ? To provide guidance to the young engineers in their endeavor for better employment and

higher studies. ? To promote the campus placements through the old students working in reputed industries in India and abroad. ? To get the valuable advices of the Alumni in the overall development of the college. ? To arrange seminars, debates, workshops on Science and Technology and also to arrange cultural and social welfare programs. ? To provide financial assistance to the needed alumni members pursuing higher studies based on merit and means. ? To arrange donations to the poor students either by way of cash or kind for their education purpose. ? To maintain libraries, reading rooms, lecture halls, training centers, etc. useful to the members of the Association. ? To arrange teaching and training classes to the students studying in the college and also to the members to upgrade technical and general skills. ? To gather and maintain database of employment information and to assist the members in securing suitable jobs. ? To maintain website, publish periodical magazines of bulletins with valuable information useful to the members and students. ? To involve the members in the overall development of the college and the society. Composition of AAGEC: Chief Patron - Principal, Patron - Vice Principal, Honorary President - Professor, Advisor - Senior Faculty. Activities of AAGEC: ? Organizing "DISA a way forward..." – a career building program for first year under graduate students annually. ? Organizing technical seminars / guest lectures department-wise. ? Offering scholarships to meritorious economically poor students every year. ? Awarding GATE top tanker of the college with cash. ? Motivation and guidance to the students of the college and communications related to placement opportunities, trends in employment are in place..

5.4.2 – No. of registered Alumni:

12020

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

1481000

5.4.4 – Meetings/activities organized by Alumni Association :

14

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)

College has a very well defined organization structure. The organization structure indicates the degree of decentralization followed in the governance of the college. Organisational Structure Chairman is the functional head of the college. He mainly looks after academics, development of education and also growth of institution and can cause any action to be initiated which is required in his opinion for the promotion of the above subject to ratification by the Governing Body. The Secretary Correspondent is the chief executive of the College. He coordinates between the sponsoring Society, College Management Committee and the other systems of management in the college. Advisor to the management advises the Management and Principal on academic, administrative and developmental activities by keeping himself apace with the latest trends in education. He shall be an active experienced person having distinguished himself in academic and administrative work. He shall be the reason for the dreams of the college and strive for their realization. The Principal is the chief Academic Administrator and a bridge between the Management, Staff and Students. Vice principal-Academics assists Principal in the domains of Teaching-Leaning process, Library and Laboratory Development, Academic Development, Examinations, Engineering PG studies, Research and Development and Consultancy. Vice principal-Administration assists Principal in the domains of Overall

Development Planning and implementation, including Quality Document, Recruitment, Training and Placement, Industry-Institute Interaction, Entrepreneurship development, Student Facilities, Student Counseling, Extra-curricular activities, Student Discipline and Alumni Information. College established Academic strengthening and Advancement Cell for reinforcing Teaching-learning process, Faculty competency, Research and consultancy. The Director of the cell with the Mentors from each discipline works out the issues and presents the recommendations and action plans to College Academic Committee. ASA implements the action plans after the approval of CAC. Controller of examinations (CoE) takes care of the responsibilities of Autonomous examination system and reports to Principal. HOD is responsible for the functioning of that Department as per the laid down policies of the college. He will be consulting with and reporting to Vice Principal concerned in technical matters coming within the purview of him. In all subject matters of Vice principals, HOD shall report to the Principal through the Vice principal concerned. HOD will prepare budget estimation for the Department for its operation, maintenance and development. HOD will constitute various committees to help in various matters. The faculty are empowered with a decision making power in his / her related domain. Faculty of the college from all levels will be on various committee and statutory bodies. Faculty will participate in management as members of Governing Body (GB), Academic Council (AC), Internal Quality Assurance Cell (IQAC), Finance Committee (FC), College Academic Committee (CAC), College Management Committee (CMC), Boards of Studies (BOS), Anti-ragging Committee, Women Protection Cell, ICC, Counseling and Guidance Cell, Grievances Redress Cell, etc. The views of the members will be considered in the process of decision making. Right from the lab technician to the Head of the Department involve in developing budget proposal and purchase of the equipment and consumables.

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

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Yes

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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	? Appointing industry personnel, academicians and alumni as members of Boards of Studies. ? Receiving feedback from the employers and alumni on existing curriculum and improvement and innovation required. ? Involving academicians from various reputed institutes in the design and development of curriculum. ? Collecting information on latest technologies and forecasting the future needs of the industry. ? Conducting workshops on curriculum design and development for the faculty members.
Teaching and Learning	? The ASA Cell is constituted to strengthening the academics as well as advancement. ? Promoting the usage of ICT. ? Arranging training on pedagogy and assessing its impact on teaching-learning. ? Arranging training on latest technologies and software tools.

	? Conducting FDP programs and refresher courses. ? Arranging in-house coaching for competitive examinations and providing placement related trainings. ? Arranging industrial visits and internships to provide hands-on experience. Arranging industrial training programs for the faculty.
Examination and Evaluation	? Preparing question banks in each subject for conducting semester end examinations by involving internal and external subject experts and updating the question bank in every two years or new regulations come into existence. ? Conducting examinations as per the academic calendar and publication of results within two weeks time. ? Award of internal marks based on continuation evaluation. ? Evaluation of semester end examination answer scripts both by internal and external subject experts under the supervision of chief valuer. ? Double valuation in the case of PG M.Tech courses.
Research and Development	? Formation of an expert committee to scrutinize and approve the research project proposals. ? Allocation of a separate budget for in-house RD. ? Encouraging faculty to register for Ph.D by giving leave and financial assistance. ? Encouraging faculty for guiding research scholars. ? Providing financial assistance to faculty for presentation of research papers, attending conferences, workshops, etc. ? Motivating the faculty and students by conducting workshops, seminars, and arranging guest lectures with experts from industrial and RD organizations. ? Encouraging the students to take up research oriented projects. ? Subscribing to standard e-journals and providing the required resources like internet, digital learning materials, PCs, software, etc. to carryout research. ? Getting four engineering departments, viz., EEE, ME, ECE CSE recognized as Research Centres by the affiliating university.
Library, ICT and Physical Infrastructure / Instrumentation	Library ? Procuring the required prescribed and reference text books as suggested by the subject experts. ? Subscribing to e-journals of reputed publishers. ? Providing access to e-books and e-learning resources through digital library. ? Providing access to e-learning resources prepared by the

	faculty members. ICT ? Installing computer system, LCD projector and public address system in all the seminar halls and e-class rooms. ? Providing internet connectivity to all the class rooms. ? Making the campus WiFi enabled. ? Providing internet and intranet facility with sufficient bandwidth. Infrastructure ? Providing required ergonomically designed class rooms, tutorials, seminar halls etc. ? Providing required number of laboratories with the state-of-the-art facilities. ? Providing required computational facilities with sufficient number of computers and peripherals. ? Providing the facilities like canteen, indoor and outdoor game facilities, gym centres, medical centre, hostels and transport, etc. ? Providing the required indoor and outdoor games facilities and gym centres separately for boys and girls. ? Providing the required instrumentation facilities in all the laboratories to conduct experiments.
Human Resource Management	The Gudlavalleru Engineering College (GEC) developed a Strategy to retain the employees for relatively longer period by clearly defining their roles and responsibilities and evaluating their performance by specifying key performance indicators (KPI) to understand where the faculty members stand with their overall performance ratings annually and providing required incentives depending on their performance to contain the attrition rate. The key performance indicators are five in number and they are 1. From feedback analysis : 35 Marks 2. Results analysis : 40 Marks 3. Administrative other contributions : 10 Marks 4. Research publications academic achievements : 5 Marks 5. Exemplary academic performance : 10 Marks
Industry Interaction / Collaboration	? MoUs are signed with local industries. ? Training is provided for faculty and technical staff in local industries. ? Guest lectures are arranged on industry related topics by the industry persons. ? Students are deputed to industry for internship. ? Faculty also deputed to the industry under faculty development program.
Admission of Students	? Highlighting infrastructural facilities, faculty, placements and

| | achievements of the college through advertisements, brochures and website. ? Increasing placements and quality of placements year after year. ? Revising the curriculum every 3 years to suit the requirements of industry. ? Improving faculty quality in-terms of qualifications and experience. ? Updating the existing equipment and introducing research oriented laboratories. |

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

E-governace area	Details
Planning and Development	Process of devising e-governance for planning and development is in progress.
Administration	The day-to-day administration is carried out with the ECAP software. The sub-domains of ECAP software like Admission Register, Attendance Report, Current Time Table, Disciplinary Action, Internal Marks, Student Profile, Syllabus Coverage, Circulars, Leave Management, Payroll, Parent Correspondence, Complaints / Suggestions, etc. facilitate e-governance of administration.
Finance and Accounts	Bank accounts will be generated through ECAP software. The details like Bank transaction report, Expenditures report, Fee refund, Profit / Loss statements can be maintained through ECAP. The other features of the software Day Book, Cash withdrawals, Expenditures support e-governance of Finance and Accounts. Accounts of the college will be maintained with the aid of Tally Software.
Student Admission and Support	The ECAP software used is equipped with the sub-domains of Counseling, student profile, Academic Calendar, Assignments Report, Backlogs, Class Assignments, Exam-schedule, Fee Details, Library books, Circulars, Book Search, Feedback, Marks. These provisions of ECAP software aid e-governance of student admission and support.
Examination	The college has a separate Examination Section equipped with ICT tools necessary for examination purposes. As per the requirement of examination section, the college has provided all the necessary equipment such as a separate server, computer systems, printing machines, scanners and

	internet facility for smooth conduct of examinations and publication of results. Question Bank software is used to generate the question paper automatically by following the prescribed levels of Blooms Taxonomy. The examination section has a separate examination management system to cover all the pre-examination post examination activities and help in smooth examination conduction and faster and accurate result calculation and publication of results on the website. Recently digital evaluation is introduced in the semester-end examinations so that the evaluation and assessment processes become fast, easy, accurate and highly secure and customized reports can be generated with ease.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	B.Hanuman Dileep	"Design and Implementation of Power Converters with EMC/EMI Modelling for Micro grid Electric vehicle Applications"	IIT Ropoar	13500
2018	P.Bala Koteswara Rao	"feedback controllers for renewable energy systems in Microgrid"	Bapatla Engineering college ,Baptla	1744
2018	D.Vijay Arun	Hands on workshop on metaheuristic optimization in multidisciplinary research (MOMR-2018)	AU college of engineering, Andhra University, Visakhapatnam	2175
2018	J.Hema Sunder	"A one week hands On training program on photovoltaic system and DC	AU college of engineering, Andhra University, Visakhapatnam	5240

Year		Title	Organizer	Amount
		Micro grids,(PV SDCM-2018) Under TEQIP-III		
2018	B.Rama Krishna	"Machine learning Applications in Signal Processing"	Gudlavalleru Engineering college.	2500
2018	Dr.G.Madhu Kiran,	"Recent trends in Power Electronics applications in smart grid electric vehicles and renewable energy "	NIT Warangal	2900
2018	Dr.G.Kishor Kumar	"Recent trends in Power Electronics applications in smart grid electric vehicles and renewable energy "	NIT Warangal	3000
2018	Sri K.Ch.Kishore Kumar	International conference on recent advances in materials ,manufacturing energy systems, (ICRAMMES-2019)	Gudlavalleru Engineering college.	5000
2018	Sri P.Tejomurti	National conference on recent trends innovations in mechanical engineering	Gudlavalleru Engineering college.	3010
		[View File](#)		

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Training Program on "DSP Kits"	NA	12/07/2018	12/07/2018	13	0

2018	International Conference on Computational Intelligent Techniques for Automation of Engineering Systems	NA	30/11/2018	01/12/2018	40	0
2019	Python Programming by APSSDC	Python Programming by APSSDC	13/05/2019	24/05/2019	16	0
2019	FDP on Machine Learning and Deep Learning	NA	01/05/2019	07/05/2019	49	0
2018	How to Write a Good Research Paper	NA	23/11/2018	23/11/2018	30	0
2018	FDP on "IoT with IBM WATSON"	NA	26/11/2018	01/12/2018	44	0
2018	Application of Artificial Intelligence and Soft computing Techniques in Electrical Engineering	NA	13/11/2018	17/11/2018	31	0
2019	A One week Faculty Development Program on "Machine Learning Applications in Signal Processing"	NA	04/02/2019	09/02/2019	44	0
2018	A Two day FDP on Design and developmen	NA	06/12/2018	07/12/2018	39	0

| 2018 | One Week FDP on Communications Signal processing | NA | 29/10/2018 | 03/11/2018 | 36 | 0 |

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
"Feedback controllers for renewable energy systems in Microgrid"	1	27/09/2018	28/09/2018	2
"Green Energy Smart Grids"	2	20/07/2019	21/07/2019	2
"Design and Implementation of Power Converters with EMC/EMI Modelling for Micro grid Electric vehicle Applications"	1	18/07/2019	21/07/2019	4
Ground water Hydrology, Hydrologic cycle and Abstractions, Measurement and Analysis of precipitation, Runoff and Hydrograph Analysis, S-curve Hydrograph and problems, Flood Routing	2	10/06/2019	22/06/2019	13
Training on Testing procedures of various materials like	1	10/06/2019	22/06/2019	13

soil, concrete and steel				
Training on Various testing procedures of soils, building materials and concrete	1	27/05/2019	08/06/2019	13
Undergone training in soil and concrete testing procedures and visit to construction practices	2	10/06/2019	22/06/2019	13
Sub structure and fly over construction – errection work at site and training on details of substructure and casting yard of Kanaka Durga Fly over project, Vijayawada.	1	10/06/2019	22/06/2019	13
Analytical training on high performance liquid chromatography, Mass spectrometry, Inductively coupled plasma optical emission spectrometry	1	30/05/2019	21/06/2019	22
A short-term course on "Advances in Materials and Structural Aspects of Tall Building Construction" on 13th March 2019, organized by the Department of Civil	1	11/03/2019	16/03/2019	6

Engineering, Pondicherry Engineering College, Puducherry during 11-03-2019 to 16-03-2019 unde				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
340	340	150	150

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
? EPF: Rs.1800/- per month. College pays its contribution of Rs.1800/- month if the faculty member pays his contribution. ? Gratuity kind of payment: Faculty with five years of continuous service in the college, are eligible for Gratuity kind of payment subject to a maximum consideration of a monthly salary of Rs.20,500/-. 75 of the Gratuity kind of payment payable to the faculty after 5 years of stay in the college will be paid as interest free loan against Gratuity kind of payment payable and the gap between two loan claims is 3 years. ? Insurance cover for Health (Rs.50,000/- Mediclaim) and Personal Accidents (Rs.1,00,000/). ? Transport Facilities: Free Transport for Professors Concessional Transport for other staff. ? Medical Facilities: Free Medical consultancy and Hospitalization for common ailments: provided through College Medical Centre and two medical	? EPF: Rs.1800/- per month. College pays its contribution of Rs.1800/- month if the faculty member pays his contribution. ? Gratuity kind of payment: Faculty with five years of continuous service in the college, are eligible for Gratuity kind of payment subject to a maximum consideration of a monthly salary of Rs.20,500/-. 75 of the Gratuity kind of payment payable to the faculty after 5 years of stay in the college will be paid as interest free loan against Gratuity kind of payment payable and the gap between two loan claims is 3 years. ? Insurance cover for Health (Rs.50,000/- Mediclaim) and Personal Accidents (Rs.1,00,000/). ? Transport Facilities: Free Transport for Professors Concessional Transport for other staff. ? Medical Facilities: Free Medical consultancy and Hospitalization for common ailments: provided through College Medical Centre and two medical	? Medical Facilities: Free Medical consultancy and Hospitalization for common ailments: provided through College Medical Centre and two medical officers, one male and the other female officer are appointed and two medical assistants (one male and one female). ? Free vaccination for Hepatitis-B, Typhoid, etc. ? Providing sports suit to University blues. ? Extending on-way fair and registration fee to the participants in various symposia. ? In case of emergency, ambulance facility is provided.

officers, one male and the other female officer are appointed and two medical assistants (one male and one female). ? Earned Leave (E.L) of one for 30 days actual service and 1/3 of vacation period. ? Maternity leave: 60 days for two times in career with full pay for 1st time and half pay for 2nd time. ? Medical leave of 20 half pay leaves per year subject to a maximum of 180 cumulative half pay medical leaves. ? Sabbatical leave to undertake study or research or other academic pursuits solely for the objective of increasing their proficiency and usefulness to the institution on higher education system. ? Extra Ordinary Leave on Loss of pay	officers, one male and the other female officer are appointed and two medical assistants (one male and one female). ? Earned Leave (E.L) of one for 30 days actual service and 1/3 of vacation period. ? Maternity leave: 60 days for two times in career with full pay for 1st time and half pay for 2nd time. ? Medical leave of 20 half pay leaves per year subject to a maximum of 180 cumulative half pay medical leaves. ? Sabbatical leave to undertake study or research or other academic pursuits solely for the objective of increasing their proficiency and usefulness to the institution on higher education system. ? Extra Ordinary Leave on Loss of pay	

6.4 – Financial Management and Resource Mobilization

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

Institution conducts both internal and external financial audits regularly. Institution conducts internal audit four times in a year. The quarterly audited reports will be presented during College Management Committee (CMC). CMC consists of members of the Management, College authorities, Heads of Departments and Sections heads, Professors and Senior Associate Professors. The financial transactions and financial position of the institution will be explained to the members and suggestions of the members will be invited for arriving at corrective measures to be implements. Annually external audit will be conducted, audited reports are made available in the website.

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
NA	0	NA
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6.4.3 – Total corpus fund generated

20672400

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Aassan Educare Foundation, Chennai	No	
Administrative	Yes	Aassan Educare Foundation, Chennai	No	

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

? Civil Engineering department organized Parent – Teacher meeting for II B.Tech on 14-12-2018, III B.Tech students on 27-12-2018 and IV B.Tech on 25-01-2019. ? Electronics and Communication Engineering department organized Parent – Teacher meeting for II, III and IV B.Tech on 08-09-2018. ? Computer Science and Engineering department organized Parents Meet on 8th September 2018 for II, III IV B.Tech. ? Information Technology department organized parents meet of II, III IV B.Tech students on 08-09-2018. Principal, Director etc., addressed the parents in Central Lecture Theatre. Suggestions were invited from the parents and a discussion on the suggestions ensued. ? Master of Business Administration Department organized Parents interaction with faculty on 16-08-2018.

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

? Civil Engineering Department conducted One-week workshop on "Digitization Techniques on ARC GIS 10.3" for Supporting staff during 6 – 11 May 2019 by Sri K.Naga Raju, CAD CAM Experts, Vijayawada. ? Civil Engineering Department conducted One-week workshop on "Hands on Experience with Soil Test Procedures" for supporting staff of the college during 12 – 17 May 2019 by Sri Phani Kumar.Vaddi, Sr.Gr.Assistant Professor, Civil Engineering Department, Gudlavalleru Engineering College, Gudlavalleru. ? Civil Engineering Department conducted One-week workshop on "Land Survey Training with Total Station" for Civil Engineering Supporting Staff during 6 – 11 May 2019 by Sri Ch.Naga Bharath, Assistant Professor, Civil Engineering Department, Gudlavalleru Engineering College, Gudlavalleru. ? Computer Science Engineering Department organized online training program on "Python Programmin" for Supporting Staff of CSE IT during 13 – 24 May 2019 by the experts of APSSDC.

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

? Granted an amount to the faculty to develop a project under internal RD. ? Sanctioned paid leave to the faculty to take the training at industry. ? Granted a fund to the students to develop the projects.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Faculty – Workshop "Industrial	23/06/2018	02/08/2018	04/08/2018	45

	Familiarizat ion Programme"				
2018	Lecture on Development of Mobile Services in India	23/06/2018	24/08/2018	24/08/2018	55
2018	Lecture on "Machine Learning Deep Learning"	23/06/2018	30/07/2018	30/07/2018	35
2018	Faculty - Training on "Data Science and Big Data Analytics" and "Cloud Infrastructur e and Services"	18/04/2018	07/05/2018	11/05/2018	45
2018	Faculty - Workshop on "Application of Artificial Intelligence and Soft Computing Techniques to Electrical Engineering"	22/09/2018	13/11/2018	17/11/2018	40
2019	FDP on "Machine Learning Applications in Signal Processing"	22/09/2018	04/02/2018	09/02/2019	60
2018	Student - Workshop on "Tall Building Design using E-TAB"	22/09/2018	12/10/2018	13/10/2018	109
2019	Lecture on " Aeronautical Navigational System"	09/02/2019	29/03/2019	29/03/2019	46
2019	Python Programming with IoT applications	09/02/2019	18/02/2019	19/02/2019	60

| 2019 | Faculty – Online Training on "Artificial Intelligence" | 09/02/2019 | 06/05/2019 | 25/05/2019 | 48 |

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
NA	31/05/2019	31/05/2019	0	0

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

Percentage of power requirement of the University met by the renewable energy sources
The College has taken initiative to harvest the solar energy for its day-to-day power utilities, the installed capacity is 390KWp, with 1200 PV modules comprising of 60 parallel strings, and output voltage rating of 304V-528V, which contributes 40 to 45 of college load in daytime.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	4804
Provision for lift	Yes	4804
Ramp/Rails	Yes	4804
Rest Rooms	Yes	1607
Scribes for examination	Yes	6

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	5	1	12/02/2019	1	Village survey and House hold survey	1.Drainage problems 2.Water problems	114
2019	1	3	09/02/2019	1	Village survey and House	1.Water supply problems.	290

2019	1	2	25/02/2019	1	Village survey and House hold survey PMKVY is implemented	1.Need cleaning of Drinking water river and roads problems 2.Death rate of fowls in Poultry 3 .Unemploy ment of i lliterate youth	290

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
The students book	07/08/2018	The students who are admitted freshly into the courses are handed a book containing The vision, mission, objective based learning, the blooms taxonomy, code of conduct, details of the courses, facilities, the rules and regulations which are effective from time to time, etc.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Awareness Programme on Fire accidents	05/07/2018	05/07/2018	372
Eating together and hence reducing takeaways/parcels	10/08/2018	10/08/2018	90
Environment towards Sustainability	03/11/2018	03/11/2018	90

Janma Bhumi Maa Vuru	04/01/2019	04/01/2019	418
Clean Green Program and Plantation	05/01/2019	05/01/2019	542
Health Camp	07/01/2019	07/01/2019	466
Plastic Free village campaign	25/01/2019	25/01/2019	160

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

? Encouraging faculty, staff and students to use cycles for their mobility within the campus. ? Usage of LED bulbs for lighting ? Water Harvesting ? Solar power generation and usage ? Banning single use plastic in the campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - I 1. Title of the Practice : Faculty Motivation – Sponsorship Retention" 2. Objectives of the practice: ? To sponsor faculty for full-time Ph.D. programs in IITs, NITs, Central Universities, etc. under quality improvement program. ? To provide incentives for the faculty pursuing external part-time Ph.D. programs in various State and Central Universities. ? To develop research culture in the campus and provide motivational incentives to the faculty to present technical papers in various national and international conferences held in India and abroad. ? To attract and retain senior faculty by providing special incentives for long service in the college. 3. The context: At present, there are about 9 of the faculty members with Ph.D. degree in the college. In spite of repeated advertisements for recruitment of faculty with Ph.D. degrees, the college did not receive much response, particularly at the level of Professors and Associate Professors with required qualification. To encourage the faculty who are desirous of pursuing full-time Ph.D. programs in premier institutes / universities, the college sponsors few of the faculty members for full-time Ph.D. programs by granting study leave with pay and other service benefits. Since it is not possible and also not economically viable to sponsor majority of the faculty for full-time Ph.D. programs, it is felt that the incentives may be extended to encourage the faculty to register for part-time Ph.D. programs with different State and Central Universities and provide required financial support to complete their research work and obtain Ph.D. degrees in time. Since the college is located in rural area, it has become a difficult task to attract and retain the senior faculty. Providing special incentives is one of the measures to attract and retain senior faculty. 4. The Practice: Sponsorship to full-time Ph.D. Programs: ? Sponsoring faculty to full-time Ph.D. Program at reputed institutes like IITs, NITs and Government Universities with pay and service benefits. Incentives to pursue part-time Ph.D. Programs: ? A special pay of Rs.2,000/- per month is paid upon registering for Ph.D. Program for maximum period of 12 months. ? A special pay of Rs.3,000/- per month is paid upon completion of Pre-Ph.D. / satisfactory review by a committee for maximum period of 12 months. ? A special pay of Rs.4,000/- per month is paid upon satisfactory review by a committee for maximum period of 12 months. ? A special pay of Rs.10,000/- per month is paid upon submission of thesis work for maximum period of 12 months. Incentives for presenting technical papers in Conferences: ? The faculty members are encouraged to present their research work in National / International conferences both in India and Abroad by sponsoring registration fee, second sleeper charges and DA. A maximum amount of Rs.10,000/- is paid if the papers are presented in the conferences held in IITs, NITs and Government Universities

/ Organizations and Rs.5,000/- for others. 50 of actual expenses including registration fee or Rs.30,000/-, whichever is minimum, is paid if the papers are presented in the conferences held abroad. Retention Measures: ? After 5 years completion of service in this college, all the faculty members are eligible for gratuity kind of payment. ? The staff retention is another important practice in which the faculty who completes ten years of service at this college, gets Rs.1,00,000/- incentive and thereafter for every five years gets Rs.50,000/- 5. Evidence of Success: ? Four faculty members have been sponsored to full time Ph.D Program with pay and service benefits and two faculty members have been sponsored to full-time Ph.D. program without pay, but with service benefits at IITs, NITs and Central Universities during the last four years. Two of them are about submit Ph.D. thesis. ? Six faculty members who have registered for Ph.D with different universities got awarded Ph.D degrees during the last four years. Another three faculty members have submitted their Ph.D. thesis recently. ? Sixty Six faculty members have registered for Ph.D with different universities and are actively pursuing their research work. ? More than one hundred technical papers are presented in various conferences and about five hundred technical papers are published in national and international journals by the faculty during the last four years. ? Sixteen faculty members have put up 10 and above years of service and Seventy Seven faculty members have 5 and above years of service in the college. 6. Problems Encountered and Resources Required: ? Sponsoring faculty members for full-time Ph.D. programs with pay in large number is burdensome financially and is a major challenge to the college. ? Providing academic leave to the faculty members pursuing external part-time Ph.D. programs for fulfilling the residential requirements of each university and sponsoring to various conferences and faculty development programs without affecting the regular class work and with a little inconvenience to the students is challenging task for the administration. ? The various incentives offered to the faculty leads to additional financial burden of rupees fifty lakhs and above every year. Best Practice – II: 1. Title of the Practice: Enhancing the Employability Skills and Placements of Graduates 2. Objectives of the Practice: ? To conduct pre-placement training on Aptitude, Verbal, Reasoning, etc. for improving the success rate in tests conducted by recruiting companies. ? To develop programming skills, soft skills, English communication skills and interpersonal skills for preparing the students to face interviews and secure placements. ? To provide hands-on-experience on latest software tools to make the students industry ready. ? To conduct workshops on emerging areas for exposing the students to latest developments in the field of engineering and technology. ? To train the students in the industry and encourage them to work on industry oriented projects. 3. The Context: English communication is one of the main problems faced by the students as most of the students have vernacular back ground as they hail from villages. Further, some of them do not have required orientation towards engineering education because of their family background. Students are not aware of the skills required for employability. To overcome all these problems, students required to undergo regular training on soft skills, communication skills, interpersonal skills, etc. right from the first year. Ever changing technological advancements in engineering and technology necessitate students to expose them to latest software tools and gain knowledge on latest developments in the subject areas. Further, exposure to the industry in the form of training makes the students to gain knowledge on industry requirements and practices. 4. The Practice: ? Conducting pre-placement training classes on Aptitude, Verbal, Reasoning, etc. regularly on week days, six hours a week in pre-final and final year by internal and external professional trainers drawn from premier training institutes like Focus Academy for Career Enhancement, COIGN, Seventh Sense Talent Solutions, etc. Special slots are provided in the regular class time table for conducting pre-placement training classes. The topics covered in this course enable the students to

track the online-assessment tests conducted by various companies for campus recruitment process. It also helps the students to face competitive examinations like GRE/ GMAT/ CAT. ? Conducting classes on English communication at first and second year level by the faculty of English department. Besides, Infosys Campus Connect soft skills program is conducted for about 150 students every year for second year students of B.Tech program. ? Conducting personality development programs regularly to develop soft skills and interpersonal skill. Mock interviews by industry experts are conducted to instill confidence among the students by providing necessary inputs to face the interviews. ? Enhancing programming skills by conducting special classes and arranging training by industry experts during weekends. Infosys Campus Connect foundation program provides the opportunity to students to strengthen their knowledge on computer foundation courses and develop programming skills. ? Providing hands-on-training on latest software tools such as MAT Lab, ANSYS, STAAD Pro, Mentor Graphic Tools, etc. in pre-final and final year by the industry experts. ? Organizing workshops on emerging technologies such as Big Data Analytics, Cloud Computing, Internet of Things, etc. from second year onwards by eminent academicians and industry experts. 5. Evidence of Success: This process has helped in ? improving soft skills, programming skills, etc. of the students tremendously which has resulted in gradual increase in number of placements. ? providing hands-on-experience to the students on latest software tools which has made them industry ready. ? exposing the students to latest technologies so that they can choose a particular field and work on the related technology and secure suitable employment. The outcome of the above practices in terms of placements is given below: About 35 of students have been placed in IT Industries. About 17 of students have been placed in core industry. About 6 of students have been placed in allied areas. 6. Problems Encountered and Resources Required ? Developing professionalism and right attitude among all the students is a major challenging task to the college as some of the students are not serious in their studies. ? Conducting various training programs, personality development programs and workshops on emerging technologies.

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

http://cse.gecgudlavalleru.ac.in/images/admin/pdf/1595309430_Best%20Practices.pdf

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

Institution's vision is to become a leader by primarily focusing on creating challenging learning environment. In the process of creating competitive learning environment, college established Skill centers, Innovation centers, Professional societies, and clubs. College conducts internal Hackthans, organizes Smart India Hackathans. College adopted five villages under Unnath Bharat Abhiyan 2.0 to study and solve the problems prevailing in those villages. Participation of students in these shapes them as professional. APSSDC CM Skill Excellence Center (CMSEC) comprising of Programming Lab, Dassault Systems 3D Experience Lab and ARC Labs "Indo-Euorpean Skilling Centers for Mechatronics and Industrial Robotics", WEL centre are the various skills centers. Innovation Startup club, Coding club, Technology Transfer club are the various student lead clubs in addition to branch-wise students associations are functioning effectively under the guidance of faculty. The Green club, Music Photography club, Cultural club, Literary Dramatic club, and Debate club are contributing to the active student interactions. The students of the college short listed and participated in Gokart competitions, participated in National level Hackathon competitions. 29 students (5 groups) participated in Smart

India Hackathons 2019 2020 and presented projects on "An e-Portal for Textile Marketing", "Technological advances for Retail Outlets", and "Utilization of Airport facilities and utilities using IoT" under software category and "Silence Box", "Video Conference eye to eye – Mobile App" under hardware category. 4 students participated in AICTE – Chhatra Vishwakarma Awards 2019 and presented project on "Unmanned aquaculture monitoring system for better yield and profit". AICTE awarded Certificate of Participation under the AICTE's National Level Utkrisht Sansthan Vishwakarma Award 2019 for their participation and showing growth and development of adopted village.

Provide the weblink of the institution
https://gecgudlavalleru.ac.in/Institutional Distinctiveness

8.Future Plans of Actions for Next Academic Year

https://gecgudlavalleru.ac.in/futureplans ? To prepare and be ready with the requirements to secure NAAC- A by developing curriculum that suits Industrial demands, Implementation of modern pedagogical techniques, Research for solving complex societal problems and by adopting value based best practices. ? To reach all the goals of Academics Strengthening and Advancement cell, viz. o designing curriculum for students academic and wholesome development, including their industry readiness, o making teachers knowledgeable enough to train the students for academic, competitive, and placement examinations, following the Blooms Taxonomy. o making students solve complex engineering problems related to society, and carryout innovative projects using modern tools. o developing comprehensive learning materials for different levels of students on all important core and elective courses in all the disciplines, and o promoting research and consultancy by establishing new laboratories/ experimental setups. ? To make the institution energy conservative and also generate energy from renewable sources to enhance green echo system ? To establish more Centers of Excellence and Industry Certification facility on latest technologies in demand ? To have MoUs with industry to achieve research based solutions ? To collaborate with reputed global universities and industries. ? To make the institution as a source of technology transfer and training to surrounding villages.