Prasad V. Potluri Siddhartha Institute of Technology (Autonomous)

Kanuru, Vijayawada – 520 007

(Permanently Affiliated to JNTUK, KAKINADA, Accredited by NBA, Accredited with A+ grade by NAAC, ISO 9001:2015 Certified Institute)

INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(EXTERNALACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

(The activities are to be graded on the following scale)

Excellent	Good	Satisfactory	Need Improvement
A	В	C	D

Name of the Principal: Dr. K. Sivaji Babu

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (E	ngineering)		
1	B.Tech. in Civil Engineering	46+14	45+14
2	B.Tech. in Computer Science & Engineering	193+18	193+17
3	B.Tech. in Electronics and Communication	128+12	127+12
	Engineering		
4	B.Tech. in Electrical and Electronics Engineering	120+12	102+18
5	B.Tech. in Information Technology	120+8	120+8
6	B.Tech. in Mechanical Engineering	120+12	115
UG TO		803	771
	PG (Engineering)		
1	M.Tech. (Computer Science & Engineering)	18	0
2	M.Tech. (Power System Control & Automation)	18	1
3	M.Tech. (Machine Design)	18	1
	M.Tech. (Microwave and Communication	18	4
4	Engineering)		
5	MBA	64	64
PG TO	DTAL	136	70
	PG TOTAL:	939	841

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	А	Feedback from students, alumni, Employers and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	А	Syllabus is revised in 2020, as per AICTE and APSCHE guidelines
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2020-21	A	All the Departments have conducted a number of training programs and certification courses. Some of the programs

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			arcanizad in
			were organized in collaboration with
			Industry.
			A minimum of 90
	Total No. of teaching days during the AY: 2020-		Teaching days per
1.4	21: 183	A	semester excluding
	21: 183		examinations is ensured
	Preparation, distribution and availability of time-		Available in Institute
1.5	tables, Academic Calendar, Curriculum and syllabi	A	website
1.6	Academic, administrative set up and functioning	A	Clearly defined roles
1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength	A	Teacher Student ratio across departments is within 15-19. However at Institute level, the teacher student ration is within 1:15.
1.8	Class rooms, program specific labs, computing facility and other labs availability	A	The laboratory equipment is upgraded every year in each department with Rs. 10-15 lakhs. All the Class rooms have been equipped with LCD projectors.
	Attainment levels of the POs of the programme	PO attainment level	
	B.Tech in Civil Engineering (90)		In all the Departments,
	B.Tech in Computer Science & Engineering		attainment of POs
	(~80%)		exceeded the set
	(~8070)	1	targets. It is observed
1.9			
1.9	B.Tech in Electronics and Communication	٨	that the targets are also
1.9	B.Tech in Electronics and Communication Engineering (~90%)	A	increased in the
1.9	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering	A	
1.9	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%)	A	increased in the
1.9	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%)	A	increased in the
1.9	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%)	A	increased in the subsequent years.
1.9	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced	A	increased in the subsequent years. The PVP-2020
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation	A	increased in the subsequent years. The PVP-2020 curriculum
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced	A	increased in the subsequent years. The PVP-2020 curriculum incorporated 5 Skill
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation		The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation	A	increased in the subsequent years. The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2 job-oriented courses.
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation		The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2 job-oriented courses. The syllabus content is
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation		increased in the subsequent years. The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2 job-oriented courses.
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation		The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2 job-oriented courses. The syllabus content is also upgraded. For the first time, Minors and Honours programs are
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation		The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2 job-oriented courses. The syllabus content is also upgraded. For the first time, Minors and Honours programs are introduced.
	B.Tech in Electronics and Communication Engineering (~90%) B.Tech in Electrical and Electronics Engineering (~80%) B.Tech in Information Technology (~88%) B.Tech in Mechanical Engineering (~70%) New courses introduced -Courses upgraded and percentage of up gradation		The PVP-2020 curriculum incorporated 5 Skill oriented courses and 2 job-oriented courses. The syllabus content is also upgraded. For the first time, Minors and Honours programs are

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	-No of new experiments introduced -New Hardware /software developed		MODROB. For upgradation of laboratory equipment an amount of Rs. 10-15 lakhs is spent every year in all the Departments.
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	Available in Institute website
1.13	Number of students undertaken -full time field projects -full time internships	A	Clearly defined roles

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions		
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 70/198 = 35% a. Faculty awarded with PhD: 13 b. Faculty submitted their PhD: c. Faculty pursuing PhD: d. Faculty registered for PhD	В	At the Institute level 35% of the faculty are with PhD. Almost 90% of the faculty are pursuing PhD. The remaining faculty also may be motivated to register for PHD.
2.3	Faculty guiding /guided PhDs:	В	All the Professors are guiding few external research scholars. However, the number of scholars allotted are lower. Efforts may be made to increase this number.
2.4	e-Content development / Lectures added to Web- resources	A	During the pandemic, all the courses were taught online. All the video lectures are shared with students.
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A	A huge participation by all faculty across all departments is observed. This is due to the support from the management.



2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	В	Interaction outside world is limited to a few faculties in each department. Visibility has to be increased.
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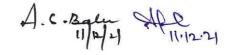
(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
	Mechanism and activities for slow learners		Remedial classes are
3.1	Outcome	A	conducted, resulting in
			higher pass %.
	Mechanism and activities for Advanced Learners		Advanced learners are
	Outcome		divided in to different
			functional groups and
3.2		A	specific training,
		71	certification courses are
			organized in order to
			get higher pay packages
			and Higher studies.
	Value added courses		Certification programs
	Outcome		and Training programs
2.2		0.00	have been conducted in
3.3		A	each programs. Some of
			the programs are
			organized with the help
	Initiatives taken for innovative mini and major		from industry experts.
200	projects		A few departments are
3.4	-Training for students & faculty	В	promoting students to
	Training for students & faculty		do mini and major projects in industries.
_	Monitoring of Teaching Learning Process		A systematic procedure
3.5	g of reasoning reasons	A	is in place to monitor T-
) Sept.		Λ	š ,
			L process All the faculty are
			encouraged to
			participate in
3.6	Initiatives undertaken towards faculty	040	FDPs/Webinars and also
3.0	development	A	publishing patents by
			providing necessary
			financial support by the
		_	management.
			Some departments have
3.7	Development Programmes for supporting staff	В	conducted training
2.7	20.010pinont i rogrammos for supporting staff		programs to the
			supporting staff.

(4) RESEARCH AND INNOVATION

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SNC	ITEM	GRADI	E COMMENTS
4.1	Research ambiance, activity and innovation (quality & quantity)	A	The quantity of quanlity publications are observed to increase in every Department. Most of the Departments have established QC on R&D and concerted efforts are in place to
4.2	Sponsored Research Projects and Consultancy	С	further improve. All the Departments have been applying for sponsored projects. In the whole Institute there are only one or two ongoing projects. This is a concern, which need to be addressed.
4.3	Innovative processes adopted in teaching & learning	A	All the faculty have been using modern teaching methods suitable for online teaching.
4.4	Faculty publications in journals: Scopus indexed: 49 SCI / SCIE (Not ESCI): 12 Total: 60 h-index: Dept & Highest in the faculty.	A	A consistent increase in the quality and quantity of publications. The incentives provided the management is found to yield good results.
4.5	Publications in conferences: - National (Scopus, SCI & equivalent): 7 - International (Scopus, SCI equivalent): 97 - Total: 104	A	A consistent increase in the number of publications in conferences is observed.
4.6	Faculty contribution in:books: 14book chapters: 25 (Books/Chapters with ISBN only are considered	A	It has been observed that reputed publishers such as Academic press have published some of the books.
4.7	Government: Applied:, Total Funded R&D Amount: projects Ongoing: Total Amount: Completed: Total Amount:		All the Departments have been applying for sponsored projects. In the whole Institute there are only one or two ongoing projects. This is a concern, which
	Non- Government: Applied:, Total		need to be addressed.



	Funded R&D projects / Industry sponsored projects	Amount:		have been applying for sponsored projects. This is a concern, which need to be addressed. The consultancy is
4.9	Faculty involved in Cons	sultancy & amount earned	В	limited to few departments and few faculty. Need improvement.
4.10	Faculty Filed: 10 I intellectual property rights / Patents:	Published: 60 Granted: 12	A	A good culture of publishing patents is in place. Financial support provided by the management is observed to show positive results. It is heartening to note that the Institute has 13 patents granted so far to its credit.
4.11	In-house R&D grants & outcomes	projects and their	A	A research seed money to the extent of Rs. 300 lakhs is provided by the management, resulting in improving publications, filing patents and apply for sponsored research projects.
4.12	New research facilities/added	laboratory facilities	В	A few departments have established new laboratories utilizing the funds received through MODROB.
4.13	MOU"s with industries. Details of activities	, R&D/ Premier Institutes	A	All the departments have functional MOUs resulting in increased internships, Mini and major projects. A number of training programs and certification courses are being organized with the help of such organizations.
4.14	Research centers of exc Outcome in research ce	nters	С	There is no COE to promote R&D.
4.15	Skill development cent outcome:	ers established:	В	At present a number of skill development

				1 1
				programs are being
				organized in
				collaboration with
				APSSDC. Dassaults
				Systems Lab is
				established by APSSDC
				in Mechanical
				Engineering
				department.
		•		Incubation centers have
	Incubation centers:		В	been initiated by few
	- Established with outside Industries:	*.		departments. Efforts
4.16	-Status of incubation:			have resulted in
	Status of the state of the stat		().	registering for a start-up
				and filing a patent.
	Start-ups & Entrepreneurships:			Only start-up is
4.17			В	registered so far.
4.17	No of Start-ups & status: Awards from outside platforms:		_	
	Awards from outside platforms.			

(5) STUDENT SUPPORT AND PROGRESSION:

$\frac{\text{STU}}{\text{S.No.}}$	ITEM	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt) 75.5%	A	First year pass% is observed to be reasonably good.
5.2	Professional society/Chapter activities	A	The following professional chapters are active: ISTE, IETE, IEEE, IE, ASHRAE, CSI, INTEL.
5.3	Number of capability enhancement and development schemes	A	Activities such as Soft Skills, Language and Communication Skills, Life Skills, Awareness in latest technologies are conducted benefitting 3112 students.
5.4	Support for competitive examinations and career counselling: GATE - 19; CAT - 3; GRE - 29; TOEFL - 3; IELTS - 21; Civil Services - 14 and State / Central Govt. examinations - 28	A	It is good in overall perception. However, the culture shall further enhance.
5.5	Number of students who opted for higher studies: 45	В	The number seems to be reasonable. However, further motivation for higher studies is required.



	· ·		
5.6	Student pass percentage		mi 1 d
	First Year I SEM 79.78%		Though the pass percentage in a few
	First Year II SEM 79.19%		departments is not up to
	Second Year I SEM 65.40%		the mark in the first 4
	Second Year II SEM 72.08%		semesters, it is observed
	Third Year I SEM 78.50%		that the pass percentage
	Third Year II SEM 82.75%	A	at the end of 4 years is
	Final Year I SEM 91.46%		close to 90%.
	Final Year II SEM 98.21%		
	Pass percentage of the outgoing batch 88.58%		
	No of students who have graduated without		
	backlogs in any semester of study 365		
5.7	Placement	S	CDT
	Total No of Final Year Students(N): 708		CRT programs, Company Specific
	No of students placed in the companies (X) .		Trainings and Training programs on Resume Building are regularly
	(headcount only): 522	_	
	Percentage of Placements (X/N): 77.97		
	No of students placed:		conducted.
	(Pay Package ≥ 10 Lakhs): 02		
	No of students placed	В	Though the % placements are good,
	(Pay Package $<$ 10 Lakhs and \ge 5 Lakhs): 43		
	No of students placed		efforts may be put in to
	(Package ≤ 5 Lakhs): 477		get core companies and improve the average and highest packages.
	Highest pay Package: Rs. 12 LPA		
	Minimum Pay Package: Rs. 1.50 LPA		T SECTION TO A
	Average pay package: Rs. 3.54 LPA	- 10	
	Median pay package: Rs. 3.50 LPA		

5 STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM	GRADE	COMMENTS
5.8	Activities of Grievance redressal mechanism		
5.9	Scholarships and Financial support		

(6) INFRASTRUCTURE AND INTERNET CONNECTIVITY

SNO	ITEM	GRADE	COMMENTS
6.1	Availability of band-width of connectivity: 240 Mbps	A	The band width has been increased to 500 Mbps wef. 1-4-2021
6.2	Usage of digital library and computing facilities		
6.3	Availability of information on college web-site		
6.4	Available facilities like class rooms/seminar halls/LCD /Wifi/ICT/vedio center/courts/ equipment etc	A	The whole campus is WiFi enabled with 35 access points. All the



class rooms are
equipped with LCD
projectors apart from 1
e-CR and 1 Seminar
Hall shared by two
every two departments
The Equipment is
regularly upgraded
every year.

(7) CENTRAL LIBRARY FACILITY

) CEN SNO	ITEM		GRADE	COMMENTS
7.1	Services: (Please rate the in the library) • Circulation services • Clipping Services • Information display services • Reference/referral services	 Photocopy and printing services User Orientation / Information Literacy Resource sharing Internet/digital resources Suggestion Box 	A	Library is automated with Libsys and barcoding. The digital resources can be accessed within the campus. All the services given in the first column are in place. The library has 3 qualified Asst. Librarians and 7 supporting staff.
7.2	Usage: Average number of vis day, books issued / retu to the digital library pe	irned per day, visitors	В	On an available average the number of visitors pe day is around 250. 5,763 e-books are available. A total amount of Rs. 25.69 lakhs have been spent in procuring Books, Journals etc.

(8) EXAMINATION SECTION

EXA SNO	MINATION SECTION ITEM	GRADE	COMMENTS
8.1	Availability of space and staff security measures	· A	Adequate space with single entry Biometric authentication and CC cameras are in place
8.2	Maintenance of records: (Please rate the maintenance of the following records) Register for Answer booklet (Used/unused), Register for Marks memos (used / unused), Availability of Answer scripts of earlier semesters/years, Preparation and adherence to time tables)	A	Impressive Automation system with all security features in place. Answer books are being stored since the Institute attained Autonomous status.

8.3	Adherence to Procedures (Question paper setting, conduct of examinations, Declaration of results, Revaluation)	A	All procedures are scrupulously maintained.	
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(9) AMINITIES AND SPORTS/ OTHER FACILITY

SNO	ITEM	GRADE	COMMENTS
9.1	Extra Curricular Activities /Activities during the period	· A	The activities were limited to intra-mural competitions in sports and games due to pandemic. A total of 907 students have participated in these competitions.
9.2	Special recognitions / prizes/ achievements during the period: NIL	В	Due to pandemic events were not held.
9.3	Hostels	A	3 own buildings with a boarding and lodging capacity for 250 girls and 80 boys is available. Hostels are equipped with WiFi, Solar Water Heating and RO Purification system.
9.4	Additional facilities available on campus like bank / post office / etc.,	A	A Post office, a full-fledged Syndicate bank are available within the campus.
9.5	First aid doctor facility	A	First aid facility with availability of a Doctor for a period of 2 hours every day.
9.6	Other facilities	A	A canteen, cooperative stores are available within the campus. A solid waste management for converting to manure is available. Yoga Center, Transport Facility for students and Staff, Waiting Halls for Boys and Girls, Gym for Boys and Girls, Gym for Boys and Girls and an Auditorium are available. Necessary facilities such as ramps, lifts are in place to take care of PwD students and staff.

(10) PLACEMENT CELL:

SNO	ITEM	GRADE	COMMENTS
10.1	Campus placement activity	В	61 companies visited for placement. 881 offers for 522 students out of 707 eligible students. Average/Median/Highest

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			Salary: 3.54/3.50/12.00 LPA
10.2	Industry Institute collaborations	В	Being handled by respective Departments.
10.3	Details of programmes conducted by the placement cell for personality development / communication skill / entrepreneurship development etc.	\mathbf{A}_{i}	A number of CRT programs, Company Specific Trainings and Training programs on Resume Building are regularly conducted.

(11) SOCIAL SERVICE AND EXTENSION ACTIVITIES:

SNO	ITEM	GRADE	COMMENTS
11.1	Functioning of recognized units available	A *	Full fledged NSS & NCC units in place. NCC is being headed by a Lieutenant rank officer. The admission is limited to a total 50 cadets.
11.2	Activities during the year in the sphere of extension activities and Institutional Social Responsibility	A	15 out of 51 events organized online by NSS unit. 10 activities were conducted by NCC unit.
11.3	Details of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-	A	Appreciation certificates from REDCROSS, LIONS club, Youth Welfare Services and American Oncology Institute recd. 3 awards recd. At state level from Rotaract Club of AP. 1 NCC cadet has been selected for the Republic day parade at the National level. 15 cadets were awarded C certificate (7 cadets with A grade) and 21 cadets were awarded B certificate.

(12) ADMINISTRATIVE MATTERS:

SNO	ITEM	GRADE	COMMENTS
12.1	Financial allocation and expenditure	A	Budget proposals from each Department will be consolidated and sent to Management. Full sanction is always granted by the Management. Expenditure is in the order of 80-85%.
12.2	Procedures and implementation of faculty and staff related matters	A	All staff related procedures and service rules are available in the Institute website. 6 th CPC is fully implemented. Promotions are regularly implemented as per AICTE norms
12.3	Support to socially backward students	A	SC/ST, OBC and Minority Cells are in place. Under Book Bank students are issued upto 6 books per semester.



12.4	Support to differently abled students	A	Lift and Ramps are available at all entries.
12.5	Support to foreign students on campus		No foreign students.
12.6	General Campus maintenance	·	Campus is clean and green and the maintenance is good.
12.7	Faculty and staff grievance redressal mechanism	В	In place.

(13) GOVERNANCE, LEADERSHIP AND MANAGEMENT

SNO	ITEM	GRADE	COMMENTS
	Pursuit of the vision and Mission of the Institution		IQAC cell as per norms in place. All Quality aspects are continuously monitored. An advisory committee is
13.1	Quality improvement strategies adopted by the institution for Curriculum Development Teaching Learning Examination and Evaluation Research and development Library, ICT and Physical Infrastructure / Instrumentation Human Resource Management Industry Interaction/Collaboration Admission of students	В .	Also in place. Quality Circles have been created at the department level to address the deficient issues such Research and Development, Placements in core companies and higher pay packages, Student progression, and Industry Institute Interaction.
13.2	Activities and support from the Alumni Association	С	Limited visibility of Alumni. Can be improved.
13.3	Activities and support from the Parent - Teacher Association	В	Two meetings organized every year.
13.4	Interaction and support from the Industry	В .	Functional MOUs in all departments resulting in student and Faculty training, student internships & projects. A few of them getting converted into placements. Capacity building programs and Certification courses are being organized with the help of Industry experts.
13.5	Description of administration	A	Employee friendly Management with financial incentives for Publishing Patents, Quality Journal Publications, Research seed grant, Deputing Faculty for FDPs and conferences.

14 Quality Circles and Outcome

Quality circles such as Research and Consultancy, Industry Institute Collaboration, Skill Development, Students' progression and Quality Placements at department level are established with a focus to improve the performance.

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15 Best Practices of the Institution

- 1. Research seed grant being sanctioned to each Department in order to promote research culture.
- 2. Faculty are being encouraged by providing fully financial support for Patenting, which is resulting in the grant of patents.
- 3. Employee friendly working environment with good retention
- 4. Incentives for quality research publications is further increased by the management resulting in substantial improvement in quality and quantity of publications.
- 5. Merit Scholarships, Gold medals, Best project, Innovative project are supported by Management.
- Curriculum has recently been revised by introducing skill development and joboriented courses. For the first time, Minors and Honours programs also introduced to promote cross disciplinary learning based on the students' interest.

SUGGESSIONS FOR IMPROVEMENTS:

- 1. Best practices followed in a particular department may be shared at the institute level so that other departments can also implement the same.
- 2. Research output can increase in the presence of M.Tech. programs. M.Tech. programs can be revised by developing the curriculum in cutting edge technologies. It is also recommended to start with at least one M.Tech. program in each department.
- 3. Explore the possibility of hosting Full Time research scholars in each department in collaboration with a higher-level institute by providing scholarship for a period of at least 3 years.
- 4. Sponsored research and consultancy are very poor. The Institute may take steps such as: conducting training/workshops on how to write good research proposals by inviting eminent researchers. Management may award cash incentives (up to 5% of the sanctioned grant) to faculty for Professional Development.
- 5. Consultancy activity is absent. A liaison Cell may be created with the objective of identifying problems faced by the nearby industries.
- Alumni visibility is poor. Alumni contributions by way of offering Gold Medals, Scholarships, Internships and Placements need to be pursued.

Name and Signature of the IQAC Coordinator

Dr. S. Madhavi, Professor, CSE Department, PVPSIT, Vijayawada

Name and Signature of the External Auditor:

A. S. 1824 Spl 11/12/24 11/12/21 Dr. A. Sarat Babu,

Professor,

Department of Chemical Engineering, NIT Warangal Dr. A. Venu Gopal,

Professor,

Department of Mechanical Engineering, NIT Warangal

Name and Signature of the Principal

PRINCIPAL

PRASAD V. POTLURI

SIDDHARTHA INSTITUTE OF TECHNOLOGY KANURU, VIJAYAWADA-520 007

Dr. K. Sivaji Babu Principal, PVPSIT, Vijayawada

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(The activities are to be graded on the following scale)

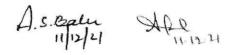
Excellent	Good	Satisfactory	Need Improvement
A	В	C	D

Name of Head of the Department: Dr. K. Ramesh

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engi	neering)		
В	Tech in Civil Engineering	60	59
Total		60	59

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised in 2020, as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2020-21	A	Students have participated in 825 events which include webinars, training programs and certification courses.
1.4	Total No. of teaching days during the AY: 183	A	
1.5	Preparation, distribution and availability of timetables, Academic Calendar, Curriculum and syllabi	A	Available in Institute website
1.6	Academic, administrative set up and functioning	A	Clearly defined roles
1.7	Faculty strength cadre-wise: Professors: 2; Associate Prof.: 1; Assistant. Prof.: 8 Teacher student ratio: 1:19.09	A	Teacher Student ratio is satisfactory
1.8	Non-teaching staff strength: 5 Class rooms; program specific labs, computing facility and other labs availability 3CR+1 Tut. +1 Seminar Hall	A	Well equipped laboratories and Class rooms
1.9	Program specific labs: 8 Attainment levels of the POs of the programme	PO attainment level	



	B.Tech in Civil Engineering	~ 90% A	Attainment levels are more than the set targets
1.10	New courses introduced: -Courses upgraded and percentage of up gradation in course content	A	In PVP-2020 regulations 5 skill oriented and 2 job oriented courses are introduced. In addition Minors and Honours programs are introduced for the first time. The changes in the curriculum content is around 33.25%
1.11	Lab Component -New Labs added: Nil -No of new experiments introduced: 6 -New Hardware developed: 3	A	
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	5 Skill Development courses are introduced.
1.13	Number of students undertaken -full time field projects: 3 -full time internships: NIL	В	Provision for FT internships is introduced in R20 regulations.

(2) Faculty information and their contribution

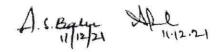
SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions:	В	One of the faculty members is awarded Distinguished Professor by Amaravathi Research Academy.
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 5/11 = 45.5% a. Faculty awarded with PhD: NIL b. Faculty submitted their PhD: Nil c. Faculty pursuing PhD: 02 d. Faculty registered for PhD: 01	A	Remaining 3 faculty may be motivated to register for PhD.
2.3	Faculty guiding /guided PhDs: 07/01	В	The Department has been recognized by the University as a Research centre.



2.4	e-Content development / Lectures added to Web- resources	В	All the online video lectures are posted in the Institute website.
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A	Faculty have participated in 193 events
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	В	A few faculty are involved in FDPs, Guest lectures, BOS members, Governing bodies, reviewer for journals and PhD evaluation.

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome	A	Remedial classes are conducted, resulting in increased pass %.
3.2	Mechanism and activities for Advanced Learners Outcome	A	GATE coaching provided.
3.3	Value added courses Outcome	A	50% fee for students to participate in training programs is supported by management resulting in 9 placements 5 internships.
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	A	Students were involved in live construction projects
3.5	Monitoring of Teaching Learning Process	А	A systematic procedure is in place to monitor T-L process
3.6	Initiatives undertaken towards faculty development	A	Faculty were



			encouraged to attend FDPs/Online webinars/ NPTEL courses by providing financial support
3.7	Development Programmes for supporting staff	В	2 training programs on total station and Primavera are conducted.

	EARCH AND INNOVATION	EM	GRADE	COMMENTS
SNO 4.1	Research ambiance, activity		A	Increase in the number of publications.
4.2	quantity) Sponsored Research Project	ts and Consultancy	В	Consultancy: Rs.5.68 lakhs One ongoing research project
4.3	Innovative processes adopte	ed in teaching & learning	A	All the faculty have been using modern teaching methods suitable for online teaching
4.4	Faculty publications in jour Scopus indexed: 01 SCI / SCIE (Not ESCI): 03 Total: 4		В	Needs improvement i quality publications
4.5	h-index: Dept & Highest in Publications in conferences - National (Scopus, SCI & - International (Scopus, SC - Total: 8	:: equivalent): Nil	В	Needs improvement in quantity
4.6	Faculty contribution in:books: 1book chapters: Nil (Books/Chapters with ISB)	only are considered)	В	
4.7	Government: Funded R&D projects	Applied: 4, Total Amount: Rs. 93.85 lakhs Ongoing: NIL Total Amount: Nil Completed: Total Amount:	С	It is a concern. A problem that need to be addressed It is a concern. A
4.8	Non- Government:	Applied: 01,	<u> C</u>	It is a concern.



the second secon	Funded R&D projects / Total Amount: Rs. 15 Industry sponsored lakhs projects Ongoing: Total Amount: Completed: Total Amount:	14. 22. 44. 19. 19.	problem that need to be addressed
4.9	Faculty involved in Consultancy & amount earned: 2 Rs. 5.68 lakhs	i A	
4.10	Faculty intellectual property Filed: Nil; rights / Patents: Published: Nil Granted Nil	C	Needs improvement
4.11	In-house R&D grants & projects and their outcomes.	A	one ongoing project worth Rs. 2.06 Lakhs resulted in one paper publication and 2 communicated
4.12	New research facilities, laboratory facilities added 3	.1	In concrete lab and Environmental lab, new facilities rae added worth Rs. 6.0 labbs
4.13	MOU"s with industries R&D Premier Institutes Details of activities	A	7 Functional MOUs, resulting in internships
4.14	Research centers of excellence established Nil Outcome in research centers	C	resulting of internalitys
4.15	Skill development centers established: outcome:	В	In collaboration with APSSDC, skill development programs organized
4.16	Incubation centers: - Established with outside Industries: -Status of incubation:	C	wgamzed
4.17	Start-ups & Entrepreneurships: Nil No of Start-ups & status: Awards from outside platforms:	C	The second secon

(5) STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM :	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt): 32.2%	В	Poor pass %
5.2	Professional society/Chapter activities:	A	Number of activities: 15 Resulted in 2 awards for students.

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5.3	Number of constitu		
The state of the s	schemes: 2	A	30 students trained in Primavera and 47 students in using Total
5.4	counselling	A	station. Support for GATE coaching through PRERANA scheme
5.5	Number of students who opted for higher studies: 7 MS		Scheme
	abroad)	A	
5.6	Student pass percentage		Pass % in first
	First Year I SEM: 64.41%.	-	two years
	First Year II SEM: 32.20%	-	needs to be
	Second Year I SEM: 29.09%		addressed.
And the second s	Second Year II SEM: 40%		
	Third Year I SEM: 67.69%	$\dashv B$	
	Third Year II SEM: 60%		
	Final Year I SFM: 90.32%		
	Final Year II SEM: 100%		
	Pass percentage of the outgoing batch: 80.95%		
	No of students who have graduated without backlogs in any semester of study: 21		
5.7	Placements		
	Total No of Final Year Students(N): 63		The %
	No of students placed in the companies (X) (headcount only): 18		placements are good. Efforts
	Percentage of Placements (X/N): 28.57%		may be put in
to de la constitució de la con	No of students placed		to improve
2.6	(Pay Package >= 10 Lakhs): Nil		the average and highest
	No of students placed		packages.
	(Pay Package < 10 Lakhs and >=5 Lakhs): Nil	В	
	No of students placed		
	(Package < =5 Lakhs): 18		
	Highest pay Package: Rs.4.50 L		
	Minimum Pay Package: Rs. 1.20 L		
	Average pay package: Rs. 2.47 L		
	Median pay package: Rs. 2.5 L		

Quality Circles and Outcome

1. The Department has established a quality circle on Consultancy.

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2. Outcomes:

1. The increase in consultancy amount has been observed.

Best Practices in the Department;

- 1. Students associations at department and college level
- National Level technical event and project exhibition.

SUGGESSIONS FOR IMPROVEMENTS:

- 1. Improve publications, Faculty Cadre Ratio.
- 2. Students may be attached to the department right from first year.
- 3. Conscious efforts must be made to get sponsored research projects.

K.V.SUBASH K.V. Inhad-Name and Signature of the Departmental IQAC Coordinator

Name and Signature of the Head of the Department - K. Recolle
(Dr. K. RAMESH)

Name and Signature of the External Auditor:

Professor,

Department of Chemical Engineering,

NIT Warangal

Dr. A. Venu Gopal,

Professor,

Department of Mechanical Engineering,

NIT Warangal

Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

PRINCIPAL

PRASAD V. POTLURI

SIDDHARTHA INSTITUTE OF TECHNOLOGY

KANURU, VIJAYAWADA-520 007

Prasad V. Potluri Siddhartha Institute of Technology (Autonomous)

Kanuru, Vijayawada – 520 007

(Permanently Affiliated to JNTUK, KAKINADA, Accredited by NBA, Accredited with A+ grade by NAAC, ISO 9001:2015 Certified Institute)

INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(EXTERNALACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

(The activities are to be graded on the following scale)

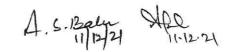
Excellent	Good	Satisfactory	Need Improvement
A	В	C	D

Name of Head of the Department: Dr. A. Jayalakshmi

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (Enginee	ring)		
	ch in Computer Science and Engineering	193+18	193+17
PG (Enginee			
M.T.	ech in Computer Science and Engineering	18	Nil
UG & PG TO		229	210

(1) ACADEMIC ACTIVITIES

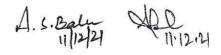
SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised in 2020, as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:	A	NPTEL-5, Coursera:11, Certification courses: 4; WS:3; FDPs: 5; Webinars: 15
1.4	Total No. of teaching days during the AY: 183	A	
1.5	Preparation, distribution and availability of timetables, Academic Calendar, Curriculum and syllabi	A	Available in Institute website
1.6	Academic, administrative set up and functioning	A	Clearly defined roles
1.7	Faculty strength cadre-wise: Professors: 4; Associate Prof.: 2; Assistant. Prof.: 30 Teacher student ratio: 1:15.66 Non-teaching staff strength: 11	A	Teacher Student ratio is good
1.8	Class rooms; program specific labs, computing facility and other labs availability 7CR+ 1 Tut. +1 Seminar Hall + 1 Incubation Centre Program specific labs: 5	A	Well equipped laboratories and Class rooms



1.9	Attainment levels of the POs of the programme	PO attainment level	
1.9	B.Tech in CSE	~ 80% A	Attainment levels are more than the set targets
1.10	New courses introduced: 3 -Courses upgraded and percentage of up gradation in course content	A	Al tools, Design Thinking and Product Innovation and Problem Solving techniques introduced
1.11	Lab Component -New Labs added: 5 -No of new experiments introduced -New Hardware /software developed	А	New labs in Life Sciences for Engineers, Design Thinking and Product Innovation, AI tools, Design and Analysis of algorithms and Python programming are introduced
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	А	Employability: 60/73 Entrepreneurship: 4/73 Skill Development: 9/73
1.13	Number of students undertaken -full time field projects: -full time internships: 104	В	Need to encourage students to take up field projects

(2) Faculty information and their contribution

SNO	ITEM 4	GRADE	COMMENTS
2.1	Faculty Awards and recognitions:	В	
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 10/36 = 28% a. Faculty awarded with PhD: 1 b. Faculty submitted their PhD: 2 c. Faculty pursuing PhD: 13 d. Faculty registered for PhD: 3	A	Remaining 7 faculty may be motivated to register for PhD.
2.3	Faculty guiding /guided PhDs: 03	В	The Department has been recognized by the University as a Research centre.



2.4	e-Content development / Lectures added to Web- resources	В	All the online video
2.4	resources	1	lectures are posted in
	List of conforce - /		the Institute website.
	List of conferences/seminars/ webinars/	A	Faculty have
2.5	workshops/FDPs attended for the enrichment of teaching - learning process		participated in 8
4.5	* ***		conferences, WS: 12;
			FDPs 53 and 12
	-		webinars
	Faculty interaction with outside world	В	A few faculty are
	(BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)		involved in FDPs,
2.6			Guest lectures and
	Bucst / ctc./		BOS members. The
			faculty need to show
			better visibility outside

(3) Teaching-Learning Process and Evaluation

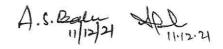
SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome	A	2 – 4 hrs/week Remedial classes are conducted,
			resulting in increased pass %.
3.2	Mechanism and activities for Advanced Learners Outcome	А	Significant rise in selections in coding competitions and increased no. of
3.3	Value added courses Outcome	A	placements Students have been trained on latest technologies from CISCO, AWS, Palotio, Blueprism and Celonies academies. 135 students obtained certifications
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	А	Students were encouraged to

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			select mini projects from AICTE suggested website: pactpub.com. Major projects are research oriented.
3.5	Monitoring of Teaching Learning Process	А	A systematic procedure is in place to monitor T-L process
3.6	Initiatives undertaken towards faculty development	А	Faculty were trained on latest technologies and inturn they train students.
3.7	Development Programmes for supporting staff	В	Appropriate training programs for Supporting and non-teaching staff may be organized

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance , activity and innovation (quality & quantity)	А	Increase in the number of publications and publishing patents
4.2	Sponsored Research Projects and Consultancy	В	Consultancy: Rs. 1.40 I No ongoing research projects
4.3	Innovative processes adopted in teaching & - learning	А	All the faculty have been using modern teaching methods suitable for online teaching
4.4	Faculty publications in journals: Scopus indexed: 03 SCI / SCIE (Not ESCI): 02 Total: 5	В	Needs improvement in quality publications

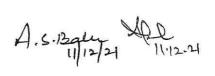


	h-index: Dept & Highest in	the faculty: 3		
4.5	Publications in conference - National (Scopus, SCI & e - International (Scopus, SC - Total: 8	s: quivalent): Nil	В	Needs improvement in quantity
4.6	Faculty contribution in:books: 2book chapters: 5 (Books/Chapters with ISBN	I only are considered	Α	Both Books are published by Acacdemic Press publishers
4.7	Government: Funded R&D projects	Applied: 4, Total Amount: Rs.118.64L Ongoing: NIL Total Amount: Nil Completed: Total Amount:	С	It is a concern. A problem that need to be addressed
4.8	Non- Government: Funded R&D projects / Industry sponsored projects	Applied: Nil, Total Amount: Ongoing: Total Amount: Completed: Total Amount:	С	It is a concern. A problem that need to be addressed
4.9	Faculty involved in Consu 2; Rs. 1.4 lakhs	ltancy & amount earned:	В	Needs improvement
4.10	Faculty intellectual property rights / Patents	Filed: 2; Published: s: 9 Granted: 1	А	Granted with 1 patent
4.11	In-house R&D grants & prooutcomes: Rs. 1.06 L seed	rojects and their	A	Resulted in projects on new technology
4.12	New research facilities/ la	aboratory facilities	А	Rs. 13.04 L sanctioned under MODROBS is being utilized to setup a new AI & ML lab
4.13	MOU"s with industries/ Details of activities	R&D/ Premier Institutes	А	12 Functional MOUs resulting in organizing certification programs and internships
4.14	Research centers of excellent		С	
4.15	Skill development center outcome:	3	В	In collaboration with APSSDC, skill development programs organized

4.16	Incubation centers: - Established with outside Industries: -Status of incubation:	С	
4.17	Start-ups & Entrepreneurships: Nil		
	No of Start-ups & status:	C	
	Awards from outside platforms:		

(5) STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt): 80.82%	A	Good pass%
5.2	Professional society/Chapter activities: A number of activities: 6	А	
5.3	Number of capability enhancement and development schemes: 2 activities are organized	А	
5.4	Support for competitive examinations and career counselling	А	Support for GATE coaching, GRE, Softskills and personality development in place
5.5	Number of students who opted for higher studies: 6 MS abroad)	А	
5.6	First Year I SEM: 94.81% First Year II SEM: 87.05% Second Year I SEM: 89.09% Second Year II SEM: 85.64% Third Year I SEM: 90.98% Third Year II SEM: 96.24% Final Year I SEM: 97.73% Pass percentage of the outgoing batch: 93.18% No of students who have graduated without	- A	Improvement in Pass % is consistently increasing.
	backlogs in any semester of study: 88	1	
5.7	Placements Total No of Final Year Students(N): 132 No of students placed in the companies (X) (headcount only): 107 Percentage of Placements (X/N): 81.06% No of students placed	B	The % placements are good. Efforts may be put in to



(Pay Package >= 10 Lakhs): 0	improve the
No of students placed	average and
(Pay Package < 10 Lakhs and >=5 Lakhs): 42	highest
No of students placed	packages.
(Package < =5 Lakhs): 65	
Highest pay Package: Rs.7.00 L	
Minimum Pay Package: Rs. 2.50 L	
Average pay package: Rs. 4.07 L	
Median pay package: Rs. 3.8 L	

Quality Circles and Outcome

The Department has established 4 quality circles namely: Skill training, Industry Institute Interaction, Semester Readiness program and Research and Consultancy.

Outcomes:

- 1. Advanced Skill training resulted in obtaining higher pay packages
- 2. Improved Industry Institute Interaction is facilitating the partial delivery of course content.
- 3. Through Semester readiness program, faculty are given proper inputs in the beginning of the semester to improve the T-L processes.
- 4. Efforts are underway to improve quality publications, research projects and consultancy.

Best Practices in the Department;

- 1. Semester readiness program at the beginning of the semester.
- 2. Partial delivery of course content in most of the courses by industry experts is being implemented
- 3. A systematic review of the quality of Question papers is in place.

SUGGESSIONS FOR IMPROVEMENTS:

1. Improve publications.

2. Conscious efforts must be made to get sponsored research projects and Consultancy works.

Name and Signature of the Departmental IQAC Coordinator

Mrs. D. Sree Lakshmi

Name and Signature of the Head of the Department Dr. A. Jayalakshmi

Name and Signature of the External Auditor:

Department of
Computer Science & Engineering
PVP Signature Institute of Technology
Kaneru. 1...
20007.

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A. S. Balue

Dr. A. Sarat Babu,

Professor,

Department of Chemical Engineering, NIT Warangal Dr. A. Venu Gopal,

Professor,

Department of Mechanical Engineering,

NIT Warangal

Name and Signature of the IQAC Coordinator

Name and Signature of the Principal PRINCIPAL

PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY KANURU, VIJAYAWADA-520 007

Prasad V.Potluri Siddhartha Institute of Technology (Autonomous)

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INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(EXTERNALACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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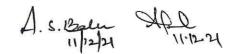
Excellent	Good	Satisfactory	Need Improvement
A	В	C	D

Name of Head of the Department: Dr. Ch. Subba Rao

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (E	ngineering)		
	B.Tech in Electronics and Communication	128+12	127+12
	Engineering	*	
PG (E	ngineering)		L
*****	M.Tech (Microwave and Communication	18	4
	Engineering)		-
UG &	PG TOTAL:	158	143

(1) ACADEMIC ACTIVITIES

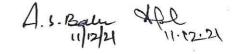
SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised in 2020, as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2020-21	A	About 7 programs in collaboration with ApplyVolt, NI, APSSDC and Texas University were conducted, involving 15,117 man hours of training
1.4	Total No. of teaching days during the AY: 183	A	
1.5	Preparation, distribution and availability of timetables, Academic Calendar, Curriculum and syllabi	A	Available in Institute website
1.6	Academic, administrative set up and functioning	A	Clearly defined roles
1.7	Faculty strength cadre-wise: Professors: 3; Associate Prof.: 7; Assistant. Prof.: 18 Teacher student ratio: 1:16 Non-teaching staff strength: 7+2	A	Teacher Student ratio is good.
1.8	Class rooms; program specific labs, computing facility and other labs availability 7CR+1 E-CR+1 Tut + 1 Seminar Hall (IT+ECE) Program specific labs with computing facility: 6 Other labs: 2 (Hardware)	A	Well equipped laboratories and Class rooms
1.9	Attainment levels of the POs of the programme	PO attainment	



		level	
	B.Tech in Electronics and Communication Engineering	~ 90% A	Attainment levels are more than the set targets
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content 4 Skill oriented and 2 Job oriented courses are introduced	A	The syllabus is updated in 2020 by giving emphasis to Skill and Job oriented courses
1.11	Lab Component -New Labs added: 1 -No of new experiments introduced -New Hardware /software developed	A	Laboratory equipment purchased with Rs. 13.62 L, Rs. 12.84 L sanctioned under MODROB is being utilized to set a new lab
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	In 2020 curriculum 4 skill based and 2 job oriented courses are introduced. Seven Value added courses are conducted
1.13	Number of students undertaken -full time field projects: 31 (Mini projects) -full time internships: 207 students	A	31 mini projects, and 207 students have taken full time internship

(2) Faculty information and their contribution

SNO	ITEM	FI CONTRACTOR	GRADE	COMMENTS
	Faculty Awards and recognitions: 1		В	M/s Capricot
			-	Technologies offered
2.1	•			Rs. 54,000/- as
		Ē		Fellowship to one
				faculty
			A	Only 3 faculty have to
	Faculty qualifications:			register for PhD. Out
	Percentage of existing faculty		·	of the 12 faculty
2.2	with PhD: 7/28 = 25%			pursuing PhD, 3 to 4
2.2	a. Faculty awarded with PhD: 1b. Faculty submitted their PhD: 2			faculty are in
	c. Faculty pursuing PhD: 12			advanced stage and
	d. Faculty registered for PhD: 3	1		likely to submit in the
				next year.
	Faculty guiding /guided PhDs: 04/02	1	A	The Department has
2.2				been recognized by
2.3	a-			the University as a
	•			Research centre.
	e-Content development / Lectures added to Web-		В	All the online video
2.4	resources			lectures are posted in
				the Institute Server



2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A	Faculty have participated in 116 programs totalling 1349 man days
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	В	The faculty need to show better visibility outside

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome	A	2 – 4 hrs/week Remedial classes are conducted, resulting in increased pass %.
3.2	Mechanism and activities for Advanced Learners Outcome	A	GATE coaching, training in CLAD, HFSS, IOT, Python programming and MSP430.
3.3	Value added courses Outcome	A	The above resulted in improved placements.
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	A	A number of students have done their major projects using MSP430.
3.5	Monitoring of Teaching Learning Process	A	A systematic procedure is in place to monitor T-L process
3.6	Initiatives undertaken towards faculty development	A	Faculty are encouraged and supported for participation in WS/FDPs resulting in 1349 man days of participation
3.7	Development Programmes for supporting staff	A	All 8 members have been trained on Labview for AI

A

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
~ ~ . ~			

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4.1	Research ambiance, activity and innovation (quality & quantity)	A	Increase in the number of publications and publishing patents
4.2	Sponsored Research Projects and Consultancy	С	No ongoing research projects on hand. This concern need to be addressed
4.3	Innovative processes adopted in teaching & learning	A	All the faculty have been using modern teaching methods suitable for online teaching
4.4	Faculty publications in journals: Scopus indexed: 6 SCI / SCIE (Not ESCI): 3 Total: 9 h-index: Dept & Highest in the faculty: 5	В	Needs improvement in quality publications
4.5	Publications in conferences: - National (Scopus, SCI & equivalent) - International (Scopus, SCI equivalent): 2 - Total: 2	В	Needs improvement
4.6	Faculty contribution in:books: NILbook chapters: 3 (Books/Chapters with ISBN only are considered	В	Needs improvement
4.7	Government: Funded Applied: NIL, R&D projects Total Amount: NIL Ongoing: NIL Total Amount: Nil Completed: Total Amount:	С	It is a concern. A problem that need to be addressed
4.8	Non- Government: Applied: Nil, Funded R&D Total Amount: projects / Industry Ongoing: sponsored projects Total Amount: Completed: Total Amount:	С	It is a concern. A problem that need to be addressed
4.9	Faculty involved in Consultancy & amount earned: Rs. 24,500/- through two works	В	Needs improvement
4.10	Faculty intellectual Filed: 20; Published: property rights / 20 Granted: Nil Patents:	Α	Publishing patents is good.
4.11	In-house R&D grants & projects and their outcomes: Rs. 3.0L seed grant is awarded by the Management	A	Resulted in few publications and applied for funding R&D projects
4.12	New research facilities/ laboratory facilities added	A	A new lab "SDR" is being setup utilizing the MODROBS

			project
4.13	MOU"s with industries/ R&D/ Premier Institutes Details of activities	A	Functional MOUs with NI And TI, resulting in organizing training programs
4.14	Research centers of excellence established: Nil Outcome in research centers	С	
4.15	Skill development centers established: outcome:	В	In collaboration with APSSDC, skill development programs organized
4.16	Incubation centers: - Established with outside Industries: Nil -Status of incubation:	С	
4.17	Start-ups & Entrepreneurships: Nil No of Start-ups & status: Awards from outside platforms:	С	

(5) STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt): 85%	A	Good pass%
5.2	Professional society/Chapter activities:	A	A number of activities under ISTE: 2; IETE: 10 and IEEE:1 are conducted
5.3	Number of capability enhancement and development schemes	A	7 activities are organized
5.4	Support for competitive examinations and career counselling	A	Support for GATE coaching, GRE, Softskills and personality development in place
5.5	Number of students who opted for higher studies:	A	11 took up M.Tech and 1 MBA
5.6	Student pass percentage		
	First Year I SEM: 84.25%	A	
	First Year II SEM: 85.04%		Pass % is consistent
	Second Year I SEM: 56.52%		except in II year I
	Second Year II SEM: 84.06%		sem.
	Third Year I SEM: 82.17%		
	Third Year II SEM: 92.97%		
	Final Year I SEM: 89.21%		
	Final Year II SEM: 100%		
	Pass percentage of the outgoing batch: 93.25%		
	No of students who have graduated without		
	backlogs in any semester of study: 66		



5.7	Placements		
	Total No of Final Year Students(N): 139		The % placements are
	No of students placed in the companies (X) (headcount only): 98		good. Efforts may be put in to improve the
	Percentage of Placements (X/N): 70.5%		average and highest
	No of students placed		packages.
	(Pay Package >= 10 Lakhs): 01		
	No of students placed		
	(Pay Package < 10 Lakhs and >=5 Lakhs): 3	В	
	No of students placed		
(Package < = 5 Lakhs): 94 Highest pay Package: Rs. 1	(Package <=5 Lakhs): 94		
	Highest pay Package: Rs.12.0 L	State	
	Minimum Pay Package: Rs. 1.8 L		
	Average pay package: Rs. 3.78 L		2
	Median pay package: Rs. 3.8 L		

Quality Circles and Outcome

Quality Circle-1: R&C

Outcome: To publish more quality papers in SCI and Scopus journals. Increase the revenue

in consultancy

Quality Circle-2: Infrastructure

Outcome: To provide sophisticated infrastructure both physical and computing

Quality Circle-3: Faculty Improvement

Outcome: To encourage faculty by delivering FDPs and to participate in various workshops and conferences.

Quality Circle-4: Language Enhancement

Outcome: To improve the communication skills among the student community.

Best Practices in the Department;

- 1. Efficient usage of online and offline resources for academic administration.
- 2. Practical projects for students through institute-industry interaction.

SUGGESSIONS FOR IMPROVEMENTS:

- 1. Improve publications.
- 2. Conscious efforts must be made to get sponsored research projects.

Name and Signature of the Departmental IQAC Coordinator

A. S. Balu Spe 11/12/11

Lor K. Ramanjaneyulus

Name and Signature of the Head of the Department

Electronics & Communication Engg.Dept.
PRASAD V.POTLURI
SIDDHARTHA INSTITUTE DE TECHE LOGY
KANURU, VIJAYAWADA-523 007.

Name and Signature of the External Auditor:

A. C. Baly

Dr. A. Sarat Babu, Professor,

Department of Chemical Engineering,
NIT Warangal

Dr. A. Venu Gopal, Professor,

Department of Mechanical Engineering, NIT Warangal

Name and Signature of the IQAC Coordinator

PRINCIPAL

PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY KANURU, VIJAYAWADA-520 007

Prasad V. Potluri Siddhartha Institute of Technology (Autonomous)

Kanuru, Vijayawada - 520 007

(Permanently Affiliated to JNTUK, KAKINADA, Accredited by NBA, Accredited with A+ grade by NAAC, ISO 9001:2015 Certified Institute)

INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(EXTERNALACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

(The activities are to be graded on the following scale)

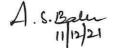
Excellent	Good	Satisfactory	Need Improvement
A	В	C	D

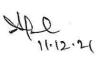
Name of Head of the Department: Dr. M. Venu Gopala Rao

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (E	ngineering)	Uz.	1
	B.Tech in Electrical and Electronics Engineering	120+12	102+18
DC (E			
PG (E	ngineering)		
	M.Tech (Power System Control and Automation)	18	1
Total		150	121

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised in 2020, as per CBCS and APSCHE 20% Change in the content
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:	A	Skill development programs were organized in collaboration with APSSDC benefitting 89 students. Online events resulting in 37 certifications involving 15 students.
1.4	Total No. of teaching days during the AY: 183	A	
1.5	Preparation, distribution and availability of timetables, Academic Calendar, Curriculum and syllabi	A	Available in Institute website
1.6	Academic, administrative set up and functioning	Α .	Clearly defined roles
1.7	Faculty strength cadre-wise: Professors: 3; Associate Prof.: 5; Assistant. Prof.: 19	A	Teacher Student ratio is satisfactory





	Teacher student ratio: 1:19.04 Non-teaching staff strength: 11		
1.8	Class rooms; program specific labs, computing facility and other labs availability 8 CR+ 6 Tut. + 1 Seminar Hall (EEE & CSE) Program specific labs: 12	A	Well equipped laboratories and Class rooms
1.0	Attainment levels of the POs of the programme	PO attainment level	
1.9	B.Tech in Civil Engineering	~ 80% A	Attainment levels are more than the set targets
1.10	New courses introduced: 17 -Courses upgraded and percentage of up gradation in course content	А	20% change in the content
1.11	Lab Component -New Labs added: Nil -No of new experiments introduced: Nil -New Hardware developed.	A	Upgraded equipment worth Rs. 13.20 lakhs under MODROB
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	А	5 Skill Development courses are introduced.
1.13	Number of students undertaken -full time field projects: 13 -full time internships: 44	A	

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions: NIL	С	COMMENTS
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 37% (10/27) a. Faculty awarded with PhD: 2 b. Faculty submitted their PhD: 1 c. Faculty pursuing PhD: 12 d. Faculty registered for PhD: 4	A	Remaining 4 faculty may be motivated to register for PhD.
2.3	Faculty guiding PhDs: 3 Ongoing PhD students: 13	A	The Department is recognized by the University as a Research centre.
2.4	e-Content development / Lectures added to Web-resources	В	All the online video lectures are posted in the Institute website.



2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A	Faculty have participated in 361 events.
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.): 12 activities	В	A few faculty are involved in FDPs, Guest lectures, BOS members, Governing bodies, reviewer for journals and PhD evaluation.

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	CDADE	0010
	Mechanism and activities for slow learners	GRADE	COMMENTS
3.1	Outcome	1	Remedial classes are
2004 (0.04)		A	conducted, resulting
	Mechanism and activities for Advanced Learners		in increased pass %.
3.2	Outcome Outcome		GATE coaching
		A	provided resulting in
	Value added courses		3 qualified ranks.
	Outcome		A certificate course
2.2			on FPGA is
3.3		A	conducted for 30
	8		students. Seven
			students received
	Initiatives taken for innovative mini and major		certifications.
3.4	projects		Need to be initiated
	-Training for students & faculty: Nil	С	
	Monitoring of Teaching Learning Process		
3.5	S Seatting 1 100035		A systematic
3.3		Α	procedure is in place
			to monitor T-L
	,		process
	Ψ.		Faculty were
3.6	Initiatives undertaken towards faculty	1	encouraged to attend
3.0	development	A	FDPs/Online
	accos. ★ configuration		webinars/ NPTEL
			courses by providing
	2.		financial support
	,		6 members were
3.7	Development Programmes for supporting staff	n	deputed for advanced
	Total supporting stail	В	training. The full fee
	Ŷ.		is paid by the
			institute.

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance, activity and innovation . (quality & quantity)		Quality publications need improvement.



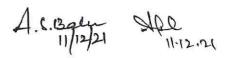
			2	
4.2	Sponsored Research Project	ets and Consultancy	С	Research projects and consultancy are not present. Need a substantial effort.
4.3	Innovative processes adopt learning		А	All the faculty have been using modern teaching methods suitable for online teaching
4.4	Faculty publications in jour Scopus indexed: SCI / SCIE (Not ESCI): 20- Total: 26 h-index: Dept & Highest in	+6 the faculty: 10	. В	The publications are limited to few faculty
4.5	- National (Scopus, SCI & e - International (Scopus, SCI - Total: 7	: equivalent): Nil	В	Needs improvement in quantity
4.6	Faculty contribution in:books:book chapters: 5 (Books/Chapters with ISBN considered)	only are	В	
4.7	Funded R&D Total projects 180 Ong Total Nil. Con Total Amo	olied: 4, al Amount: Rs9 lakhs going: NIL al Amount: appleted:	С	It is a concern. A problem that need to be addressed
4.8	Non- Government: Funded R&D projects / Industry sponsored projects	Applied: Nil Total Amount: Ongoing: Total Amount: Completed Total Amount:	С	It is a concern. A problem that need to be addressed
4.9	Faculty involved in Consultanearned: Nil	cy & amount	С	
4.10	Faculty intellectual property rights / Patents:	Filed: Nil; Published:10 Granted: 01	В	Needs improvement

A.S. Baly Spl 11/12/21 11/12.27

4.11	In-house R&D grants & projects and their outcomes:	A	Three ongoing projects worth Rs. 2.25 Lakhs supported by Institute
4.12	New research facilities/ laboratory facilities added: Nil	С	
4.13	MOU"s with industries/ R&D/ Premier Institutes: 2 Details of activities:		Applied for 2 SERB projects in collaboration with industries under MoU
4.14	Research centers of excellence established: Nil Outcome in research centers	С	
4.15	Skill development centers established: outcome:	В	In collaboration with APSSDC, skill development programs organized
4.16	Incubation centers: Nil - Established with outside Industries: -Status of incubation:	С	
4.17	Start-ups & Entrepreneurships: Nil No of Start-ups & status: Awards from outside platforms:	С	

(5) STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt): 46.07%	В	Poor pass %
5.2	Professional society/Chapter activities: Solar System of India, ISTE	С	Guest Lectures are arranged and awareness is created
5.3	Number of capability enhancement and development schemes:	В	Students have undergone 15 certification courses and 19 skill development programs
5.4	Support for competitive examinations and career counselling	A	Support for GATE coaching through PRERANA scheme



Pass % needs	
improvement	
in the first 4	
semesters.	
The % placements are good. Efforts may be put in to improve the average and highest packages.	
	placements good. Effor may be put to improve average and highest

Quality Circles and Outcome

1. Quality Circle-1: The Department has established a quality circle in R&D. Outcomes:

- 1. 6 SCIE and 20 Scopus papers were published.
- 2. 10 patents were published and 1 patent was granted
- 3. 4 funded projects were applied.
- 2. Quality Circle-2: Department has also established another Quality Circle for Skill Development.

Outcomes:

- 1. 44 internships in various reputed organisations.
- 2. 130 certificate courses through Course era, GUVI and APSSDC

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Best Practices in the Department;

- 1. Industry Institute interaction resulted in core placements and projects related to problems in industry.
- 2. Encouraging students to register for online courses on NPTEL to promote advanced learning.

SUGGESSIONS FOR IMPROVEMENTS:

- 1. Senior faculty shall handle Second year courses to monitor the progress of the students.
- 2. To establish a centre of excellence for promoting research activities.

Name and Signature of the Departmental IQAC Coordinator

Name and Signature of the Head of the Department

Dept.of Electrical & Electronics Engg. PRASAD V.PDTLURI

Name and Signature of the External Auditor: RANURU, VIJAYAWADA-520007

Dr. A. Sarat Babu

Professor,

Department of Chemical Engineering, NIT

Warangal

Dr. A. Venu Gopal,

Professor,

Department of Mechanical Engineering,

NIT Warangal

Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

PRASAD V. POTLURI

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INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(EXTERNALACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

(The activities are to be graded on the following scale)

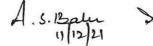
Excellent	Good	Satisfactory	Need Improvement
A	В	С	D

Name of Head of the Department: Dr. B. V. Subba Rao

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineer	ring)		
B.Tec	h in Information Technology	120+12	120+8
UG & PG TC	OTAL:	132	128

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised in 2020, as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2020-21	A	A number of program were conducted
1.4	Total No. of teaching days during the AY: 183	A	
1.5	Preparation, distribution and availability of time- tables, Academic Calendar, Curriculum and syllabi	A	Available in Institute website
1.6	Academic, administrative set up and functioning	A	Clearly defined roles
1.7	Faculty strength cadre-wise: Professors: 3; Associate Prof.: 1; Assistant. Prof.: 19 Teacher student ratio: 1:18.66 Non-teaching staff strength: 6	A	Teacher Student ratio is reasonable.
1.8	Class rooms; program specific labs, computing facility and other labs availability 7CR+ 1 Seminar Hall (IT+ECE) + 1 Incubation Centre Program specific labs: 10	A	Well equipped laboratories and Class rooms
1.9	Attainment levels of the POs of the programme	PO attainment level	
5	B.Tech in Information Technology	~ 88%	Attainment levels are

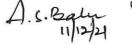


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	W	Α	more than the set
40.0		•	targets
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content 4 Skill oriented and 2 Job oriented courses are introduced Lab Component	А	The syllabus is updated in 2020 by giving emphasis to Skill and Job oriented courses
	-New Labs added: Nil -No of new experiments introduced -New Hardware /software developed	А	4
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	А	In 2020 curriculum 4 skill based and 2 job oriented courses are introduced. Certification course on RPA is conducted
1.13	Number of students undertaken -full time field projects: -full time internships: 82	В	Need to encourage students to take up field projects

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions: 1	В	One faculty was awarded Young Scientist Award by IJIEMR - Elesevier
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 52.17% a. Faculty awarded with PhD: 12 b. Faculty submitted their PhD: 0 c. Faculty pursuing PhD: 7 d. Faculty registered for PhD: 1	A	Only 3 faculty have to register for PhD.
2.3	Faculty guiding /guided PhDs: 01	В	The Department has not been recognized by the University as a Research centre, as there is no M.Tech program.
2.4	e-Content development / Lectures added to Webresources	В	All the online video lectures are posted in the Institute website





2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A	Faculty have participated in 121 WS/FDPs
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	В	A few faculty are involved in FDPs, Guest lectures and BOS members. The faculty need to show better visibility outside

(3) Teaching-Learning Process and Evaluation

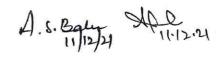
SNO	ITEM	00.45=	T
	Mechanism and activities for slow learners	GRADE	
	Outcome		2 – 4 hrs/week
	Outcome		Remedial
3.1	4		classes are
5.1		Α	conducted,
*	*		resulting in
	e e		increased pass
	Machanism and activities 5 - A i		%.
	Mechanism and activities for Advanced Learners Outcome		GATE coaching,
3.2	Outcome	A	training for
	7	, A	securing higher
	Value added courses		pay packages
	Outcome		A certification
3.3	Outcome		course on RPA,
3.3	*	Α	resulted in
			securing 2
	Initiation to be a second of the second of t		internships.
	Initiatives taken for innovative mini and major projects		Selection of 5
	-Training for students & faculty		best projects is
3.4		В	in place and a
121			merit
			certificate is
	Manifestania		awarded.
	Monitoring of Teaching Learning Process		A systematic
3.5	51		procedure is in
3.3		Α	place to
			monitor T-L
			process
	G el		Faculty are
3.6	Initiativas varietis		encouraged
5.0	Initiatives undertaken towards faculty development	Α	and supported
			for
			participation in



			WS/FDPs resulting in huge participation
3.7	Development Programmes for supporting staff	В	Appropriate training programs for Supporting and non-teaching staff may be organized

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance , activity and innovation (quality & quantity)	А	Increase in the number of publications and publishing patents
4.2	Sponsored Research Projects and Consultancy	С	No ongoing funded research projects on hand.
4.3	Innovative processes adopted in teaching & learning	А	All the faculty have been using modern teaching methods suitable for online teaching
4.4	Faculty publications in journals: Scopus indexed: 12 SCI / SCIE (Not ESCI): 0 Total: 12 h-index: Dept & Highest in the faculty: 2	В	Needs improvement in quality publications
4.5	Publications in conferences: - National (Scopus, SCI & equivalent): Nil - International (Scopus, SCI equivalent): Nil - Total: 10		Needs improvement in quality
4.6	Faculty contribution in:books: 4book chapters: 5 (Books/Chapters with ISBN only are considered	А	All 4 Books are published by reputed publishers
4.7	Government: Funded R&D Applied: 4, projects Total Amount: Rs.60.69L Ongoing: NIL Total Amount: Nil Completed:	С	It is a concern. A problem that need to be addressed



	Total Amount:		8
4.8	Non- Government: Funded Applied: Nil, Total R&D projects / Industry sponsored projects Ongoing: Rs. 35,000/- Total Amount:	С	It is a concern. A problem that need to be addressed
4.9	Faculty involved in Consultancy & amount earned: Nil	С	Needs improvement
4.10	Faculty intellectual property Filed: 0; Published: 11 rights / Patents: Granted: Nil	В	Publishing patents is good.
4.11	In-house R&D grants & projects and their outcomes: Rs. 35000/- seed grant is awarded by the Management	В	Resulted in 1 publication and filing 3 patents. Other faculty shall be motivated.
4.12	New research facilities/ laboratory facilities added	В	onan se motivatea.
4.13	MOU"s with industries/ R&D/ Premier Institutes Details of activities	А	5 Functional MOUs, resulting in organizing training programs for faculty and students
4.14	Research centers of excellence established: Nil Outcome in research centers	С	racticy and students
4.15	Skill development centers established: outcome:		In collaboration with APSSDC, skill development programs organized
4.16	Incubation centers: - Established with outside Industries : -Status of incubation: 1		One start up registered and 1 patent filed
4.17	Start-ups & Entrepreneurships: Nil No of Start-ups & status: Awards from outside platforms:	С	

(5) STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt): 89.84%	A	Good pass%
5.2	Professional society/Chapter activities:	A	6 number of activities
5.3	Number of capability enhancement and development schemes:	А	organized 2 activities are organized
5.4	Support for competitive examinations and career counselling	А	Support for GATE



5.5	Number of students who opted for higher studies:	A	coaching, GRE, Softskills and personality development in place 10 (1 MBA in IIM, 9 MS abroad)
5.6	Student pass percentage		
	First Year I SEM: 89.84%		
	First Year II SEM: 76.56%		
	Second Year I SEM: 88.57%		Pass % is
	Second Year II SEM: 89.29%	\neg A	consistently increasing.
	Third Year I SEM: 86.57%		increasing.
	Third Year II SEM: 90.37%		e.
	Final Year I SEM: 100%		
	Final Year II SEM: 100%		
	Pass percentage of the outgoing batch: 99.11%		
	No of students who have graduated without		
	backlogs in any semester of study: 79		
5.7	Placements		
	Total No of Final Year Students(N): 113		The %
	No of students placed in the companies (X)		placements are good.
	(headcount only): 93 Percentage of Placements (X/N): 82.3%	-	Efforts may
	No of students placed	-	be put in to
	(Pay Package >= 10 Lakhs): 0		improve the
	No of students placed		average and
	(Pay Package < 10 Lakhs and >=5 Lakhs): 12	В	highest
	No of students placed		packages.
	(Package < =5 Lakhs): 78		
	Highest pay Package: Rs.7.60 L		
	Minimum Pay Package: Rs. 3.0 L		
- 1	minimum ray radiago. No. 0.0 B	-	
	Average pay package: Rs. 4.01 L		1

Quality Circles and Outcomes

1. Department has established two quality circles namely, Knock-out backlogs and Quality placements.

Outcomes:

- 1. Improvement in success rate of academically weak students is observed. 2.
- 2. Specific training given to students through various coding platforms to improve quality placements.

1.5. Batu All

Best Practices in the Department;

- 1. Attention to secure high package placements by offering certification courses through various coding platforms
- 2. Number of certification of programs on Python, Tableau, Infosys Campus connect foundations are organised for the students

SUGGESSIONS FOR IMPROVEMENTS:

- 1. Improve publications.
- 2. Conscious efforts must be made to get sponsored research projects and consultancy.

Name and Signature of the Departmental IQAC Coordinator. De A. Haetha.

Name and Signature of the Head of the Department. Q. BV Subbalus MEAD

Information Technology Departm

Name and Signature of the External Auditor:

FRASAD V.PÕTLÜRI SIGGRARTHA HISTHRUTE OF YEDHNOLD KANURU, VIJAYAWADA-520 00

Professor,

Department of Chemical Engineering,

NIT Warangal

Dr. A. Venu Gopal,

Professor,

Department of Mechanical Engineering,

NIT Warangal

he IQAC Coordinator Name and Signature of

PRINCIPAL

PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY

KANURU, VIJAYAWADA-520 007

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INTERNAL QUALITY ASSURANCE CELL (IQAC) MECHANICAL ENGINEERING DEPARTMENT



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(ACADEMIC YEAR 2020-21)

(EXTERNALACADEMIC AND ADMINISTRATIVE AUDIT REPORT) FOR AY: 2020-2021

(The activities are to be graded on the following scale)

Excellent	Good	Satisfactory	Need Improvement
A	В	С	D

Name of Head of the Department: Dr. B. Raghu Kumar

SNO	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineer	ing)		
B.Tecl	h. in Mechanical Engineering	120+12	115
PG (Engineer	ing)	· · · · · · · · · · · · · · · · · · ·	
M.Tec	h. (Machine Design)	18	01
UG & PG TO	TAL:	150	116

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Student Feedback-Available Faculty Feedback -Available Parents -Available Employer Feedback Forms-Available Alumni feedback Forms- Available
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised as PVP20 for the academic year 2020-21 following CBCS and APSCHE guidelines
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:20-21	A	Certification Programmes: 03 *Applications of Non-Destructive Testing *Advanced Manufacturing Processes such as 3D printing, CNC and EDM *CATIA, DELMIA, SIMULIA Coursera: Students:46 Faculty:26 NPTEL: Students:02 Faculty:14
1.4	Total No. of teaching days: 183 during the AY:2020-2021	A	
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi	A	Available on the institute website
1.6	Academic, administrative set	A	Academic, administrative set up available

A. C. Bally SAL

	up and functioning		with well defined rules.
1.7	Faculty strength cadre-wise, Teacher student ratio, Non- teaching staff strength	A	Faculty strength: 31 Professor: 4 Associate Professor: 5 Assistant Professor: 22 Teacher student ratio: 16.78 Non-teaching staff strength: 11
1.8	Class rooms, program specific labs, computing facility and other labs availability	A	Class rooms :9 Tutorial Rooms :2 Labs :15 Research Labs: 3 resulted in publications and patents
1.9	Attainment levels of the POs of the programme	PO attainment level	
	B.Tech in Mechanical Engineering	A	All PO's are attained for AY 20-21 set above the target level of 70%
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content	A	B.Tech- 29 Percentage-32.9%
1.11	Lab Component -New Labs added -No of new experiments introduced-60 -New Hardware /software developed	A	New Labs added: 3 1.Design Thinking Lab 2.Life Sciences for Engineers 3.AI tools lab *Software license was renewed in CAD Lab
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	B.Tech73 M.Tech19 Percentage-100%
1.13	Number of students undertaken -full time field projects -full time internships	A	Field projects: 12 students [03 Projects] Internships:108

(2) FACULTY INFORMATION AND THEIR CONTRIBUTION

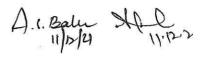
SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions	В	
12		A	*Percentage of existing faculty with PhD:11/31=35.48%
2.2	×		*Faculty awarded with PhD: 02 *Faculty submitted their PhD: NIL
			*Faculty pursuing PhD:17



	Faculty qualifications : Percentage of existing faculty with PhD Faculty awarded with PhD Faculty guiding /guided PhDs:	Α	*Faculty registered for PhD :02 Faculty guiding /guided PhDs:06
2.3	Tabana garang garana,		
2.4	e-Content development / Lectures added to Web- resources	A	*Google Class room. *Dr. B. Raghu Kumar is delivering Video lectures on Engineering Mechanics in YouTube.
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A .	Conferences:11 Seminars/Webinars:52 Workshops:44 FDPs:52
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	В	 BOS-01 NBA-01 Examiner for PhD evaluation - selection committee -1 Academic auditing- Chairperson- Chief guest -04 Need more visibility

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome	A	Remedial classes, Backlog classes were conducted.
3.2	Mechanism and activities for Advanced Learners Outcome	A	*GATE classes were conducted, resulting in 4 ranks and one student admitted in IIT Kanpur. *Placement Training
3'.3	Value added courses Outcome	A	03 80% of students trained in NDT secured placements.
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	A	*Working Models from Projects:14 Financial support is provided to an extent of Rs.5,000/- per each project. It also resulted in one patent. *Papers from Projects: 20
3.5	Monitoring of Teaching	Α .	*Lesson Plans were continuously



	Learning Process		monitored
3.6	Initiatives undertaken towards faculty development	A	Organized: *01 FDP was organized *01 International Conference was organized *07 webinars were organized Attended: 29 Faculty have attended 50+ FDPs outside
3.7	Development Programmes for supporting staff: Nil	В	Appropriate training programs may be planned regularly

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance, activity and innovation (quality & quantity)	A	*Research Groups were formed. *3 Lakhs seed money from SAGTE was sanctioned. * Out of 23 Patents, 8 patents were filed, 5 Patents were published and 10 were granted /Registered patents. Total:40 papers Scopus indexed: 03 papers, SCI/ESCI: 03 papers Others: 34 International Conferences: 25 (03 papers are Scopus, 22 papers are Non-Scopus)
4.2	Sponsored Research Projects and Consultancy	В	Research Projects: One AICTE RPS project worth of 11,56,863 lakhs has been sanctioned to Dr. P. Phani Prashanthi. Consultancy: 2 Projects Dr.P.Anusha - Rs.10,000/ Dr.M.N.Swapna Sri - Rs.10,000/- Efforts shall be made to increase the participation by more faculty
4.3	Innovative processes adopted in teaching & learning	A	NPTEL, Video lectures, Google Classroom, Cut Models, Working Models, YouTube lectures, etc.
4.4	Faculty publications in journals: Scopus indexed: SCI / SCIE (Not ESCI): Total: h-index: Dept & Highest in the faculty.	В	Scopus indexed: 03 SCI / SCIE (Not ESCI): 03 Total: 06 h-index: 4 Needs to be improved
4.5	Publications in conferences: National (Scopus, SCI & equivalent) - International (Scopus, SCI equivalent)	A	Publications in conferences: 25 National: NIL International:



T	- Total:		Scopus:03
			Non-Scopus:22
4.6	Faculty contribution in:books:book chapters: (Books/Chapters with ISBN only are considered	В	Book chapters: 01 Needs to be improved
4.7	Government: Applied: Funded R&D Total Amount: projects Ongoing: Total Amount: Completed: Total Amount:	C .	Applied: 05 Total Applied Amount: 1,09,60,000 Ongoing: 01 Total Ongoing Amount:11,56,863 Needs to be addressed with more focus
4.8	Non- Government: Applied: Funded R&D Total Amount: projects / Industry Sponsored projects Total Amount: Completed: Total Amount:	В	*ISHRAE Student Project has been completed worth Rs.50,000/- Needs to be addressed with more focus
4.9	Faculty involved in Consultancy & amount earned	В	Dr.P.Anusha Dr.M.N. Swapna sri Amount earned: Rs.20,000/- Needs to be improved.
4.10	Faculty intellectual property rights / Patents: Filed: Published Granted:	l: A	Filed:8 Published:05 Granted:10 Total: 23
4.11	In-house R&D grants & projects and their outcomes	A	An amount of worth Rs.3, 00,000 Lakhs was sanctioned and distributed to faculty depending on their requirement.
4.12	New research facilities/ laboratory facilities added	A	*Metallic Band Saw * Digital Viscometer * Digital Lathe Tool Dynamometer with data acquisition board * Digital Universal Testing Machine * Impact Testing Machine
4.13	MOU"s with industries/ R&D/ Premier Institutes Details of activities	В	11 functional MoUs resulting in internships, placements and industrial visits.
4.14	Research centers of excellence	В	JNTU-K has recognized the department as Research center. Outcome: *2 Scholars have been allocated to our faculty.
4.15	Skill development centers established: outcome:	A	Dassaults systemes lab has been established by APSSDC where the students are getting trained.

4.16	Incubation centers: - Established with outside Industries: -Status of incubation:	С		_	9 >
4.17	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	С	3*		

(5) STUDENT SUPPORT AND PROGRESSION:

SNO	ITEM	GRADE	COMMENTS
5.1	Transformation rate from I year to II year (passed all subjects in first attempt)	В	50/113 = 44.24% Low pass % and needs to be addressed.
5.2	Professional society/Chapter activities	В	Two Professional societies are enrolled, * ISTE * ISHRAE Institute of Engineers (IE) Student Chapter has been Processed
5.3	Number of capability enhancement and development schemes	A	*Remedial coaching *Bridge courses *Backlogs *Personal counselling & Mentoring. *Skill Development programs. *Certification programs.
5.4	Support for competitive examinations and career counselling	В	*Gate Classes *student training programme
5.5	Number of students who opted for higher studies	В	Opted: 13 Admitted: 6
5.6	Student pass percentage		
	First Year I SEM First Year II SEM Second Year I SEM Second Year II SEM Third Year I SEM Third Year II SEM Final Year I SEM Final Year I SEM Pass percentage of the outgoing batch No of students who have graduated without backlogs in any semester of study	В	69.0% 46.0% Needs improvement 44.2% Needs improvement 50.8% Needs improvement 66.1% 77.4% 88.9% 97.9% 113/144 = 78.5%

5.7	Placements				
	Total No of Final Year		144		
	Students(N)				
	No of students placed in		07		
	the companies (X)		87		
	(headcount only				
	Percentage of Placements		60.41%		
	(X/N)	4			
	No of students placed		0		
	(Pay Package >= 10	- B			
	Lakhs)				
	No of students placed (Pay Package < 10 Lakhs		0		
	and >=5 Lakhs)				
	No of students placed	1	87 (placements in core companies with		
	(Package < =5 Lakhs)	_	higher pay packages are to improved)		
	Highest pay Package		4.5 LPA		
			1.8 LPA		
	Minimum Pay Package		2.86 LPA		
	Average pay package	_	2.50 LPA		
	Median pay package		2.30 LFA		

Quality Circles and Outcome:

Following Quality circles have been established in the year 2020-21:

- > Quality Circle 1: Student Performance in Examination
- > Quality Circle 2: Student Placements, Higher Studies& Competitive Exams
- > Quality Circle 3: Research
- > Quality Circle 4: Student Participation

Outcomes:

- > To improve student performance in examinations
- > To get more number of placements and admissions into higher studies
- > To improve quality publications, and patents.
- > To improve soft skills, self-confidence, self-discipline, communication skills, interpersonal relations, broader vision, creativity, social responsibility, scientific and analytical skills, time management skills, empathy, and working habits.

Best Practices in the Department:

- > A skill development center on Dassault Systems is established in collaboration with APSSDC. Students are being trained in the advanced technologies to help them in getting good placements.
- > Students and staff are being continuously encouraged to do advanced courses on NPTEL and get themselves updated.

A. S. Balu 11.1221

SUGGESSIONS FOR IMPROVEMENTS:

- 1. Improve publications.
- 2. Conscious efforts must be made to get sponsored research projects.

Name and Signature of the Departmental IQAC Coordinator

Name and Signature of the Head of the Departmental Engineering Department

SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-820 ODT

Name and Signature of the External Auditor:

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Department of Chemical Engineering, NIT

Warangal

Dr. A. Venu Gopal,

Professor,

Department of Mechanical Engineering,

NIT Warangal

Name and Signature of the TQAC Coordinator

Name and Signature of the Principal

PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY KANURU, VIJAYAWADA-520 007