

**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
AY: 2021-22**

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

Name of the Principal: Dr. K. Sivaji Babu

SNo	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
1	B.Tech in Civil Engineering	272	224
2	B.Tech in Computer Science and Engineering	752	750
3	B.Tech in Electronics and Communication Engineering	544	540
4	B.Tech in Electrical and Electronics Engineering	544	485
5	B.Tech in Information Technology	544	543
6	B.Tech in Mechanical Engineering	545	461
UG TOTAL:		3201	3003
PG			
1	M.Tech (Computer Science & Engineering)	19	0
2	M.Tech (Power System Control & Automation)	19	1
3	M.Tech (Machine Design)	26	0
4	M.Tech (Microwave and Communication Engineering)	26	4
5	MBA	130	129
PG TOTAL		220	135
UG & PG TOTAL:		3421	3135

Faculty Strength

Sl. No	Branch	Prof	Asso. Prof	Sr. Asst. Prof	Asst. Prof	Total	Ph.D
1	Principal	1	-	-	-	1	1
2	Mech	4	5	-	25	34	12
3	ECE	2	7	4	14	27	12
4	EEE	3	4	2	17	26	10
5	IT	3	1	1	21	26	13
6	CSE	5	2	3	30	40	14
7	CIVIL	2	1	-	11	14	6
Total (Engg)		20	20	10	118	168	66
8	MBA	1	-	-	8	9	6
9	Freshman Engg. (Science & Humanities)	1	2	2	28	33	11
Total		22	22	12	154	210	85

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(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni, employers and parents is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus revised in 2020 as per AICTE and APSCHE guidelines
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:	A	A number of training programs and certification courses are conducted and some of them in collaboration with industry
1.4	Total No. of teaching days during the AY:	A	180 days
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	Roles are defined clearly
1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength	A	SFR at the institute level is 16.29 SFR across the departments is within 15.20
1.8	Class rooms, program specific labs , computing facility and other labs availability	A	All the classrooms and laboratories are up to date
1.9	Attainment levels of the POs of the programme	PO attainment level	
	B.Tech in Civil Engineering	A	The attainment of POs in general met the targets in all the departments. It is observed that the targets are also revised.
	B.Tech in Computer Science & Engineering		
	B.Tech in Electronics and Communication Engineering		
	B.Tech in Electrical and Electronics Engineering		
	B.Tech in Information Technology		
	B.Tech in Mechanical Engineering		
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content	A	133
1.11	Lab Component -New Labs added -No of new experiments introduced -New Hardware /software developed	A	The labs are being updated based on the revised curriculum.
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	Programmes/Courses focused on employability / entrepreneurship / skill development during the academic year (594 in number)

			5 skill oriented and 2 job-oriented courses are introduced in all the programs
1.13	Number of students undertaken -full time field projects -full time internships	B	Internships are made mandatory and field projects varied from 10 to 50 % across the departments

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions	C	Awards are limited to only a few faculty
2.2	Faculty qualifications: Percentage of existing faculty with PhD a. Faculty awarded with PhD: b. Faculty submitted their PhD: c. Faculty pursuing PhD: d. Faculty registered for PhD	B	40% of the faculty are with PhD at the institute level. 80 to 90% of the remaining faculty are pursuing PhD.
2.3	Faculty guiding /guided PhDs:	B	All the departments are recognised as research centers by JNTUK except Civil Engg. However the number of scholars allotted are lower.
2.4	e-Content development / Lectures added to Web-resources	A	The developed video lectures are shared with the 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 the departments is observed. Faculty are also actively undergoing NPTEL courses.
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	C	Interaction with outside is limited to few faculty members in each department. Visibility has to be increased.

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners; Outcome	A	Procedure has been well established in identifying the slow learners and conduct of remedial classes.
3.2	Mechanism and activities for Advanced Learners; Outcome	B	Advanced learners are identified, divided in to different functional groups and specific training, certification courses are conducted.

3.3	Value added courses Outcome	A	Certification and training programs have been conducted in each program, some of them in collaboration with industry.
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	B	Students are encouraged to do major projects in industries. As a result, 10 to 50% of the projects are done in industries.
3.5	Monitoring of Teaching Learning Process	A	For each course, the teacher has to propose the T-L methods to be used for each CO, which is monitored regularly by the Module coordinator and HoD.
3.6	Initiatives undertaken towards faculty development	A	Teachers provided with financial support Rs 2,59,640 to attend conferences / workshops and towards payment of membership fee of professional bodies during the year
3.7	Development Programmes for supporting staff	B	Training programs for staff were conducted in the latest equipment and Software.

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambience, activity and innovation (quality & quantity)	B	145 papers, 21 Book chapters and a number of patents are published. There is a significant increase in terms of quality and quantity.
4.2	Sponsored Research Projects and Consultancy	D	Sponsored ongoing R&D projects are very limited. Consultancy activity is observed in Civil and Mechanical departments. 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.
4.4	Faculty publications in journals: Scopus indexed: SCI / SCIE (Not ESCI): 143 Total: h-index: Dept & Highest in the faculty: 20 in EEE dept.	B	Consistent increase in the quality and quantity of publications is observed.
4.5	Publications in conferences: - National (Scopus, SCI & equivalent): 62 - International (Scopus, SCI equivalent): 65 - Total: 127	B	
4.6	Faculty contribution in:books:book chapters: 21	B	

	(Books/Chapters with ISBN only are considered)		
4.7	Government: Funded R&D projects	D	Sponsored ongoing R&D projects are very limited. Consultancy activity is observed in Civil and Mechanical departments. This is a concern which need to be addressed. From AICTE , RPS scheme grant received is Rs.11,39,510/-
4.8	Non- Government: Funded R&D projects / Industry sponsored projects		
4.9	Faculty involved in Consultancy & amount earned	C	Limited to few departments and a few faculty. Need significant improvement.
4.10	Faculty intellectual property rights / Patents: Filed: 5 Published: 36 Granted: 46	A	A significant increase in patents. Mechanical department received awards for filing / publishing record number of patents
4.11	In-house R&D grants & projects and their outcomes	B	8.19 lakhs given to faculty. A research seed money is provided by the management. To each department.
4.12	New research facilities/ laboratory facilities added	C	Few departments have established new laboratories.
4.13	MOU's with industries/ R&D/ Premier Institutes Details of activities	A	63 functional MoUs with ongoing activities
4.14	Research centers of excellence established: Outcome in research centers	C	Quality circles to promote R&D activities are established in a few departments
4.15	Skill development centers established: outcome:	B	Skill departments are being organized in collaboration with APSSDC.
4.16	Incubation centers: - Established with outside Industries: -Status of incubation:	D	Innovation and incubation center at the institute level may be established.
4.17	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	D	Start-ups and entrepreneurship culture has to be promoted among the students.

(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)	A	First year pass percentage is observed to be reasonably good except in Civil and Mechanical
5.2	Professional society/Chapter activities	A	The following chapters are active: CSI, ISTE, IETE, IEEE, IE, ASHRAE, INTEL and ACM
5.3	Number of capability enhancement and development schemes	A	Activities such as soft-skills, life skills, certification courses are

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			conducted benefitting many students.
5.4	Support for competitive examinations and career counselling	B	GATE coaching and Campus recruitment training are in place
5.5	Number of students who opted for higher studies: 48	B	The number seems to be reasonable. However, further motivation for higher studies is required.
5.6	Student pass percentage	A	Though the pass percentage in a few departments is not up to the mark in the first 4 semester, it is observed that the pass percentage at the end of 4 years is above 85%
	First Year I SEM: 76.88%		
	First Year II SEM: 76.72%		
	Second Year I SEM: 71.43%		
	Second Year II SEM: 79.36%		
	Third Year I SEM: 82.68%		
	Third Year II SEM: 85.46%		
	Final Year I SEM: 90.53%		
	Final Year II SEM: 95.55%		
	Pass percentage of the outgoing batch: 89.81%		
	No of students who have graduated without backlogs in any semester of study: 366		
5.7	Placements	B	CRT, company specific trainings, and training programs on resume building are regularly conducted. Though the % of placements are good, efforts may be put in to get core companies and improve the average salary.
	Total No of Final Year Students(N): 784		
	No of students placed (X): 578		
	Percentage of Placements (X/N): 73.72%		
	No of students placed in Pay Package \geq 10 Lakhs: 08		
	Pay Package $<$ 10 Lakhs & \geq 5 Lakhs: 153		
	Package \leq 5 Lakhs: 417		
	Highest pay Package: Rs. 44 LPA		
	Minimum Pay Package: Rs. 1.68 LPA		
5.8	Average pay package: Rs. 4.65 LPA	A	
	Median pay package: Rs. 4.00 LPA		
	Activities of Grievance redressal mechanism		
5.9	Scholarships and Financial support	A	Number of students receiving scholarships and freeships provided by the Government during the year: 1811 Number of students receiving scholarships and freeships provided by non-government agencies during the year = Rs. 62,85,650

(6) INFRASTRUCTURE AND INTERNET CONNECTIVITY

SNO	ITEM	GRADE	COMMENTS
6.1	Availability of band-width of connectivity	A	500 mbps bandwidth is available.
6.2	Usage of digital library and computing facilities	A	Students can access digital library facilities even through their mobile phone.
6.3	Availability of information on college web-site	A	Available
6.4	Available facilities like class rooms/seminar halls/LCD /WiFi/ICT/video center/courts/ equipment etc.	A	All facilities are available including campus wide WiFi.

(7) CENTRAL LIBRARY FACILITY

SNO	ITEM	GRADE	COMMENTS
7.1	<p>Services: (Please rate the following services in the library)</p> <ul style="list-style-type: none"> • Circulation services • Clipping Services • Information display services • Reference/referral services <ul style="list-style-type: none"> • Photocopy and printing services • User Orientation / Information Literacy • Resource sharing • Internet/digital resources • Suggestion Box 	A	Library is automated with LIBSYS and Bar Coding. Digital resources can be accessed within the campus. All the services mentioned in the first column are in place.
7.2	<p>Usage:</p> <p>Average number of visitors to the library per day, books issued / returned per day, visitors to the digital library per day</p>	B	<p>20 to 50 teachers and up to 250 students visit the library on an average.</p> <p>A total amount of Rs. 24.26 lakhs was spent.</p>

(8) EXAMINATION SECTION

SNO	ITEM	GRADE	COMMENTS
8.1	Availability of space and staff security measures	A	Adequate space with single entry, bio-metric authentication and CC cameras are in place.
8.2	<p>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 sems/years, Preparation and adherence to time tables)</p>	A	Impressive automation system with all security features is 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 followed.

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(9) AMINITIES AND SPORTS FACILITY

SNO	ITEM	GRADE	COMMENTS
9.1	Extra Curricular Activities /Activities during the period	A	475 students participated in 16 intramural tournaments.
9.2	Special recognitions / prizes/ achievements during the period: 23	B	
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. 2 quarters for ladies' hostel wardens is provided.
9.4	Additional facilities available on campus like bank / post office / etc.,	A	A post office, syndicate bank and canteen are available within the campus.
9.5	First aid doctor facility	A	First aid facility with a doctor available on campus daily for 2 hours.
9.6	Other facilities	A	A Cooperative store, solid waste management, Yoga center, transport facility for students and staff, waiting halls for boys and girls and an auditorium are available. Necessary facilities such as Ramps, lifts are in place.

(10) PLACEMENT CELL:

SNO	ITEM	GRADE	COMMENTS
10.1	Campus placement activity	B	Though the % of placements are good, efforts may be put in to get core companies and improve the average salary.
10.2	Industry Institute collaborations	B	Industry-institute interactions have resulted in increased internships and field projects.
10.3	Details of programmes conducted by the placement cell for personality development / communication skill / entrepreneurship development etc.	A	CRT, 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 and NCC units are in place.
11.2	Activities during the year in the sphere of extension activities and Institutional Social Responsibility	A	A number of events are being organized regularly by these centers
11.3	Details of awards and recognition received by the Institution, its teachers and students for extension activities from Government	A	3 awards at state level and 4 at local level were received.

(12) ADMINISTRATIVE MATTERS:

SNO	ITEM	GRADE	COMMENTS
12.1	Financial allocation and expenditure	A	Management granted the budget proposed by the departments. Expenditure is in the order of 85 to 90%
12.2	Procedures and implementation of faculty and staff related matters	A	All staff related procedures and service rules are available in the institute web site. 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 up to 6 books per semester.
12.4	Support to differently abled students	A	Lifts and ramps are available.
12.5	Support to foreign students on campus	-	No foreign students
12.6	General Campus maintenance	A	Campus is clean and green with a good maintenance.
12.7	Faculty and staff grievance redressal mechanism	A	Mechanism is in place.

Budget allocated for infrastructure augmentation	Expenditure for infrastructure augmentation	Expenditure on maintenance of academic facilities (excluding salary for human resources)	Expenditure on maintenance of physical facilities (excluding salary for human resources)	Total expenditure excluding salary
Rs. 42,01,000/-	Rs. 68,55,086/-	Rs. 2,70,19,413/-	Rs. 2,71,58,111	Rs. 5,41,77,524/-

(13) GOVERNANCE, LEADERSHIP AND MANAGEMENT

SNO	ITEM	GRADE	COMMENTS
13.1	Pursuit of the vision and Mission of the Institution	A	IQAC cell as per norms is in place. All quality aspects are continuously monitored by an advisory committee. Quality circles have been created to address the deficient issues such as R&D, placements in core companies with higher packages, industry-institute interactions.
	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		
13.2	Activities and support from the Alumni Association	B	Alumni interactions are regularly happening towards improvements in placements and partial course delivery.

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13.3	Activities and support from the Parent - Teacher Association	A	Two meetings are being organized every year.
13.4	Interaction and support from the Industry	B	Functional MOUs in all departments resulting in student training and internships and field projects. Capacity building programs and certification courses are being organized with the help of industry experts.
13.5	Description of administration	A	Pro-active management with financial intensives for patents, publications, attending FDPs and conferences and Research seed grant.

(14) QUALITY CIRCLES AND OUTCOME

Various departments have established the following Quality circles:

1. Research and Consultancy

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

2. Faculty Improvement

Outcome: To encourage faculty by delivering FDP's and to participate in various workshops and conferences.

3. Language Enhancement

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

4. Student Placements, Higher studies and Competitive exams

Outcome: To enhance the skills among students by organising Skill Development Programs, internships and innovation training.

5. Industry-Institute interaction

Outcome: to promote field projects and internships.

6. Semester Readiness program

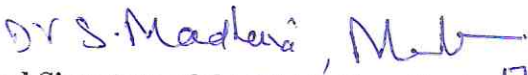
Outcome: to make the faculty ready for the courses being handled by them

(15) BEST PRACTICES OF THE INSTITUTION


- Employee friendly working environment with good retention.
- Incentives for publications, patents, attending FDPs and Conferences.
- Minors and Honors programs are running in a few departments.


(16) SUGGESTIONS FOR IMPROVEMENTS:


- Focus on sponsored Research and consultancy with a target of at least one sponsored project in each department.
- Eminent persons may be hired to train the faculty on writing project proposals for funding.
- Best practices among the departments may be shared and practiced.
- Start-up and Entrepreneurship culture to be promoted.
- M.Tech. programs may be re-designed to attract admissions.


Name and Signature of the IQAC Coordinator 17/2/23

Name and Signature of the External Auditor:

1. 
(Prof. A. Sarath Babu)

2. : 17.2.23
(Prof. A. Venu Gopal)


Name and Signature of the Principal K.SIVATI DADDU
PRINCIPAL
PRASAD V.POTLURI
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INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

Department of Civil Engineering

AY: 2021-22

17-2-2023

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

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

S No	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
1	Civil Engineering (P3)	66	32
TOTAL:			

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Feedback from students, alumni, parents and faculty is collected regularly
1.2	Revision / Update of regulation or syllabi	A	Syllabus is revised in PVP14, PVP19 & PVP20 regulation as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY	B	Webinars: 20; Workshops: 37; Quiz: 2; Internships: 100%
1.4	Total No. of teaching days during the AY: IV Year-I Semester: (02.09.2021 to 31.12.2021) III Year-I Semester: (20.09.2021 to 12.01.2022) II Year – I Semester: (18.10.2021 to 31.01.2022) IV Year – II Semester: (31.01.2022 to 13.05.2022) III Year – II Semester: (16.02.2022 to 04.06.2022) II Year – II Semester: (03.03.2022 to 25.06.2022)	A	180 days
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, Teacher student ratio, Non-teaching staff strength	A	Professor: 2 Associate Professor: 1 Assistant Professor: 10 SFR:15.85 Non-teaching staff strength: 5

1.8	Class rooms, program specific labs, computing facility and other labs availability	A	3 + 1 + 1 + 8
1.9	Attainment levels of the POs of the programme	PO attainment level	
	B.Tech in Civil Engineering	A	2.21 to 2.33 against a target of 1.92
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content	A	36.63% content updated
1.11	Lab Component -New Labs added: Nil -No of new experiments introduced: 2 1) Determination of Hardness (EE Lab) 2) MPN Test Calculation (EE Lab) -New Hardware /software developed: 10	B	All required labs for UG are in place
1.12	Number of and % of courses focusing on employability /entrepreneurship/skill development	A	100%/0%/10%. Course on entrepreneurship may be introduced
1.13	Number of students undertaken -full time field projects: partial: 18/66 -full time internships: 100%	A	

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions: 8	B	
2.2	Faculty qualifications: Percentage of existing faculty with PhD a. Faculty awarded with PhD: 6 b. Faculty submitted their PhD: - c. Faculty pursuing PhD: 2 (1 about to submit) d. Faculty registered for PhD: Nil	B	Other faculty also may be encouraged to register for PhD
2.3	Faculty guiding /guided PhDs: 2/0	B	
2.4	e-Content development / Lectures added to Web-resources:	B	e-content/video lectures made available
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	A	No. of man-days: 48
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	C	

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome:	A	33% Success
3.2	Mechanism and activities for Advanced Learners Outcome:	B	Gate
3.3	Value added courses Outcome:	B	Certificate courses
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty:	B	18 out of 66 doing field projects
3.5	Monitoring of Teaching Learning Process:	A	Regular monitoring by HOD
3.6	Initiatives undertaken towards faculty development:	A	
3.7	Development Programmes for supporting staff:	A	40 man-days

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambience, activity and innovation (quality & quantity):	D	
4.2	Sponsored Research Projects and Consultancy:	B	Rs. 5.12 lakhs consultancy
4.3	Innovative processes adopted in teaching & learning:	A	Industrial visits; Participative & experiential learning; industrial guest lectures
4.4	Faculty publications in journals: Scopus indexed: 3 SCI / SCIE (Not ESCI): 2 Total: 10 h-index: Dept & Highest in the faculty: 7	B	
4.5	Publications in conferences: - National (Scopus, SCI & equivalent): Nil - International (Scopus, SCI equivalent): 6 - Total: 8	B	
4.6	Faculty contribution in:books: Nilbook chapters: 1 (Books/Chapters with ISBN only are considered)	C	
4.7	Government: Applied:...Nil....., Total Funded R&D Amount:...Nil..... projects Ongoing:...Nil..... Total Amount:...Nil..... Completed:...Nil..... Total Amount:...Nil.....	D	No funded projects
4.8	Non- Applied:...Nil....., Total	D	No funded projects

	Government: Amount:...Nil..... Funded R&D Ongoing:...Nil... Total projects / Industry Amount:...Nil... sponsored Completed:...Nil..... Total projects Amount:...Nil...		
4.9	Faculty involved in Consultancy & amount earned: Rs. 5,12,572/-	B	
4.10	Faculty Filed...Nil.....Published.....Nil....., intellectual Granted...Nil..... property rights / Patents:	D	
4.11	In-house R&D grants & projects and their outcomes: 1 (ongoing)	C	
4.12	New research facilities/ laboratory facilities added: 10	B	
4.13	MOU's with industries/ R&D/ Premier Institutes Details of activities:	B	8 functional MOUs
4.14	Research centers of excellence established: Nil Outcome in research centers	D	
4.15	Skill development centers established: Nil outcome:	D	
4.16	Incubation centers: - Established with outside Industries: Nil - Status of incubation:	D	
4.17	Start-ups & Entrepreneurships: Nil No of Start-ups & status: Awards from outside platforms:	D	

(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): 53.13% (17 out of 32 students)	B	
5.2	Professional society/Chapter activities: 3	B	
5.3	Number of capability enhancement and development schemes:	A	1165 man-days
5.4	Support for competitive examinations and career counselling:	C	GATE & Career counselling
5.5	Number of students who opted for higher studies: 3	C	M.Tech., MBA, MS
5.6	Student pass percentage	A	
	First Year I SEM: 65.63		
	First Year II SEM: 60.00		
	Second Year I SEM: 67.65		
	Second Year II SEM: 61.76		

	Third Year I SEM: 65.45		
	Third Year II SEM: 54.55		
	Final Year I SEM: 80.30		
	Final Year II SEM: 87.88		
	Pass percentage of the outgoing batch: 77.27% (51 out of 66 students) (E-45)		
	No of students who have graduated without backlogs in any semester of study: 10 students (Marks register)		
5.7	Placements	B	Quality and quantity of placements I core companies need improvement
	Total No of Final Year Students(N): 66		
	No of students placed in the companies (X) (headcount only: 29		
	Percentage of Placements (X/N): 43.94		
	No of students placed: Nil		
	(Pay Package >= 10 Lakhs)		
	No of students placed: 2		
	(Pay Package < 10 Lakhs and >=5 Lakhs)		
	No of students placed: 27		
	(Package < =5 Lakhs)		
	Highest pay Package: Rs. 6,28,004		
	Minimum Pay Package: Rs. 1,80,000		
	Average pay package: Rs. 2,96,999		
	Median pay package: Rs.2,16,000		

Quality Circles and Outcome:

1. Quality circle on consultancy

Outcomes: The consistency in consultancy amount had been observed.

Best Practices in the Department:

1. Effective implementation of Mentorship Scheme
2. Faculty proposes different teaching-learning methods for each CO in every course, which is being monitored regularly by the Module coordinator and Head.
3. Second year courses are taught by Senior faculty, resulting in a significant improvement in the pass%.

Suggestions for Improvements:

1. Strive for research funding from external agencies
2. The Department may enter into MOU with Higher level Institutes and apply for Joint Research projects
3. Department may address prospective students to improve the quality of admitted students

Name and Signature of the Departmental IQAC Coordinator

K.V. SUBASH - K.V. Subash
17/2/23

Name and Signature of the Head of the Department

K. Ramesh 17/2/2023
(Dr. K. RAMESH)

Name and Signature of the External Auditor:

1. A. S. Babu
17/2/23
(Prof. A. Sarath Babu)

2. A. Venu Gopal
17.2.23
(Prof. A. Venu Gopal)

Dr. S. Nataraj 17/2/23

Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

K. SIVAKI BABU

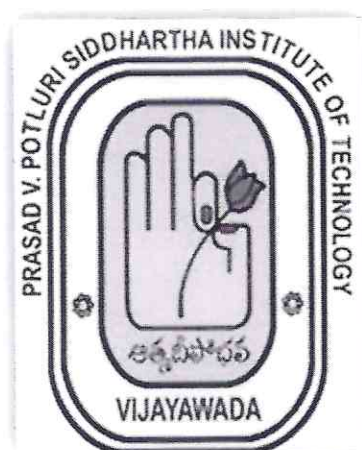
PRINCIPAL
PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 007

**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
Department of Computer Science and Engineering
2021-22

17-2-2023

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

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

S N O	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
1	B.Tech. Computer Science and Engineering	198	197
	Lateral Entry	18	19
PG (Engineering)			
		19	0
UG & PG TOTAL:		235	216

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders:	A	Feedback from students, alumni, parents and faculty is collected regularly
1.2	Revision / Update of regulation or syllabi:	A	Syllabus is revised in PVP14, PVP19 & PVP20 regulation as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:	B	Guest Lectures: 01 III/ Webinar: 09 Workshops: 01 CSE Honors: 63 Minor in CSE: 44
1.4	Total No. of teaching days during the AY:	A	180
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, Teacher student ratio, Non-teaching staff strength:	B	Professors – 5, Asso. Professor -2, Asst. Professors: 30 SFR - 15.45 Non-teaching staff strength: 11

1.8	Class rooms, program specific labs, computing facility and other labs availability: 1 –Seminar Hall, 1-Incubation Center, Specific Labs - 5	A	9 + 5 + 1 Sem. Hall + 1 Incubation Centre
1.9	Attainment levels of the POs of the programme - B.Tech. in Ccomputer Science & Engineering	PO attainment level	
		B	Targets for PO attainment need to be fixed
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content	A	PVP-19: 28 PVP-20: 05
1.11	Lab Component -New Labs added -No of new experiments introduced -New Hardware /software developed	A	OOPs through C++, IoT Lab, SE Lab, WAD Lab, Introduction to Linux OS lab, ADS Lab
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	employability: 61/78 courses entrepreneurship: 1/78 skill development: 11/78
1.13	Number of students undertaken -full time field projects -full time internships	A	71/131 field projects 497 internships

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions	B	NPTEL SPOC: 01 Guest Lectures Delivered: 03 Industry Training by E-PAM: 01 Session Head: 01
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 35%	B	Faculty with PhD: 03 Submitted PhD: 02 Pursuing PhD: 20 Registered for PhD: 06
2.3	Faculty guiding /guided PhDs:	C	05
2.4	e-Content development / Lectures added to Web-resources - Moodle	A	
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process: Workshops: 03; Webinars: 07; FDPs – 51; Conferences – 20; STTPs -08; Certifications – 11 NPTEL /Coursera - 06	A	Total 2101 man-days

2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.) Selection Committee:	C	Faculty involved as members in BOS, Examiner for PhD, Chairperson, Chief Guest, Selection Committee
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(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners- Remedial classes & Outcome	A	In place
3.2	Mechanism and activities for Advanced Learners	A	Skill Training on Problem Solving And Encourage students in participating National Level Coding competitions and Hackathon - Increased High package placements
3.3	Value added courses	A	NPTEL -192, Microsoft: 48 Spoken Tutorial: 808 Infosys Springboard: 202
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	B	Encouraged students to select problems from latest research domain and publish their work in journals
3.5	Monitoring of Teaching Learning Process – Lesson Plan	A	Monitored regularly
3.6	Initiatives undertaken towards faculty development: 2.	A	Every Faculty will attend minimum 2 FDPs organized by IITs, NITs and ATAL Some Faculty members are attending skill development training provided by Industries
3.7	Development Programmes for supporting staff	B	All Supporting staff have attended relevant training programs - 01

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance, activity and innovation (quality & quantity) : All faculty members are actively involved in research through Research Groups	D	Three Research groups: 1. Learning & Computing 2. AI & Data Science 3. Networks & Security
4.2	Sponsored Research Projects and Consultancy – NIL	D	
4.3	Innovative processes adopted in teaching & learning	A	Minimum of two innovative teaching methodologies are being implemented by Each faculty for

			each course
4.4	Faculty publications in journals:	B	Scopus: 09; SCI / SCIE: 06 Total: 15 h-index: Dept & Highest in the faculty. 2.84 & 6
4.5	Publications in conferences:	A	International (Scopus, SCI equivalent) -22
4.6	Faculty contribution in:books:book chapters: 01 (Books/Chapters with ISBN only are considered	C	
4.7	Government: Applied: 07 Funded R&D Total Amount: projects 45,233,527. Ongoing:..... Total Amount:..... Completed:..... Total Amount:.....	D	No funded projects
4.8	Non- Government: Applied: Funded R&D Total Amount: projects / Ongoing:..... Industry Total Amount:..... sponsored Completed:..... projects Total Amount:.....	D	
4.9	Faculty involved in Consultancy & amount earned - NIL	D	
4.10	Faculty intellectual property rights / Patents:	A	Published: 15
4.11	In-house R&D grants & projects and their outcomes –	B	Training on Robotics and Automation, Model Building – Rs. 1,52,891/-
4.12	New research facilities/ laboratory facilities added –	C	
4.13	MOU's with industries/ R&D/ Premier Institutes	A	Details of activities - 13
4.14	Research centers of excellence established: NIL Outcome in research centers	D	
4.15	Skill development centers established:	B	Hexaware, Virtusa
4.16	Incubation centers: - Established with outside Industries : -Status of incubation:	D	
4.17	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	D	

(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) –	A	168/211 = 79.6%
5.2	Professional society/Chapter activities	B	ACM: 02 ISTE: 03 CSI: 01
5.3	Number of capability enhancement and development schemes: 01 (UIF)	B	
5.4	Support for competitive examinations and career counselling -	B	
5.5	Number of students who opted for higher studies -26	B	
5.6	Student pass percentage	A	
	First Year I SEM : 95.43		
	First Year II SEM : 88.78		
	Second Year I SEM : 85.31		
	Second Year II SEM : 97.13		
	Third Year I SEM : 94.17		
	Third Year II SEM : 95.15		
	Final Year I SEM : 96.21		
	Final Year II SEM : 99.24		
	Pass percentage of the outgoing batch – 96.95		
	No of students who have graduated without backlogs in any semester of study – 101		
5.7	Placements	B	Improvement in placements with high package.
	Total No of Final Year Students(N) - 131		
	No of students placed in the companies (X) (headcount only - 119		
	Percentage of Placements (X/N) – 90.83		
	No of students placed		
	(Pay Package >= 10 Lakhs) - 06		
	No of students placed		
	(Pay Package < 10 Lakhs and >=5 Lakhs) - 43		
	No of students placed		
	(Package <=5 Lakhs) - 57		
	Highest pay Package - 44 LPA		
	Minimum Pay Package – 3.25 LPA		
	Average pay package – 6.24		
	Median pay package – 4.5 LPA		

Quality Circles and Outcome:**Four Quality Circles:**

1. Industry Institute Interaction
2. Semester Readiness Program
3. R&D and Consultancy
4. Skill Oriented Program

Best Practices in the Department:

1. Significant number (about 50%) of students getting paid internships ranging from Rs. 12,000/- to Rs. 85,000/-.
2. Partial course delivery by industrial personnel.
3. Identifying and providing additional training to advanced learners in coding on five different platforms is resulting in placements with higher pay package.
4. Promoting students in Smart India Hackathon and Virtusa Neural Hack – season 5.
5. Honours with 63 students and Minor with 44 students are being offered.

Suggestions for Improvements:

1. Focus on external funded R&D Projects and consultancy
2. The Department may enter into MOU with Higher level Institutes and apply for Joint Research projects.
3. Redesign M.Tech. program to attract students.

Name and Signature of the Departmental IQAC Coordinator

Mrs. D. Sree Lakshmi

- *D. Sree Lakshmi*

Name and Signature of the Head of the Department

Dr. A. Jayalakshmi

- *Jayl* 17/2/23

Name and Signature of the External Auditor:

1. Prof. A. Sarath Babu

- *A. S. Babu* 17/2/23

2. Prof. A. Venu Gopal

- *AVG* 17.2.23

Name and Signature of the IQAC Coordinator

Dr. S. Madhavi

- *Madhavi* 17/2/23

Name and Signature of the Principal

Dr. K. Sivaji Babu

- *K. Sivaji Babu*

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INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

Department of Electronics and Communication Engineering

AY: 2021-22

17-2-2023

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

Name of the Principal: Dr. K. Sivaji Babu

S N O	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
	B.Tech. in Electronics and Communication Engineering	132+12	131+13
UG TOTAL:		144	144
PG (Engineering)			
	M.Tech. (Microwave and Communication Engineering)	6	Nil
PG TOTAL		6	--
UG & PG TOTAL:		150	144

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Available
1.2	Revision / Update of regulation or syllabi	A	Updated regularly as per AICTE, JNTUK and APSCHE guidelines
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2021-22	B	4 programs conducted
1.4	Total No. of teaching days during the AY: 2021-22 IV Year-I Semester: 112 III Year-I Semester: 108 II Year – I Semester: 102 IV Year – II Semester: 105 III Year – II Semester: 105 II Year – II Semester: 108	A	More than stipulated guidelines of AICTE
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi	A	Given to the students in the beginning of the session and made available in website
1.6	Academic, administrative setup and functioning	A	Functional setup is available
1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength	A	Professors - 2 Associate Professors - 7 Assistant Professors - 18

			Non-teaching staff - 7+2 STR - 1: 17.44
1.8	Class rooms, program specific labs , computing facility and other labs availability	A	Class Rooms – 7 e-Class Room – 1 Tutorial rooms – 1 Seminar Hall - 1 Programme specific labs and S/W labs – 6 other labs - 2 (EDAC & TI Lab)
1.9	Attainment levels of the POs of the programme	PO attainment level	
	B.Tech in Electronics and Communication Engineering	A	All POs (2.31 to 2.51) met the Target
1.10	New courses introduced:	A	New courses introduced:13 % of up gradation in course content: 13/39 = 33.33% (> 25%)
1.11	Lab Component	A	New Labs added: 2 New experiments added: 10 New Hardware /software developed: Arduino, IDE software
1.12	Number of courses focusing on employability /entrepreneurship/ skill development: 95%, value added courses: 04	A	Courses on Entrepreneurship may be given a focus.
1.13	Number of students undertaken	A	full time field projects – 32 students (22.22%) full time internships – 57 students (39.6%)

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions:	B	2 Faculty are recognised as research guides by JNTUK
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 25% a. with PhD: 04 b. submitted PhD: 01 c. pursuing PhD: 10 Registered for PhD: 01	B	Faculty without PhD may be encouraged to register for PhD.
2.3	Faculty guiding /guided PhDs:	B	Guiding 4 scholars
2.4	e-Content development / Lectures added to Web-resources	A	e-Content is made available on institute website

2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process:	A	Total number of programs attended by the faculty: 87
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	C	Only two faculty are involved in outreach activities

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome	A	Support for slow learners is well established
3.2	Mechanism and activities for Advanced Learners Outcome	C	Only motivational classes by alumni to improve placements and higher studies are being conducted
3.3	Value added courses	B	4 programs are conducted and as an outcome, quality placements are increased.
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	B	Field/Industrial projects are encouraged
3.5	Monitoring of Teaching Learning Process	A	
3.6	Initiatives undertaken towards faculty development	A	Faculty are supported by providing Regn. and travel to attend FDPs and Conferences
3.7	Development Programmes for supporting staff	B	Regular in-house training programs are being organized.

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambience, activity and innovation (quality & quantity)	C	No evidence of research activities
4.2	Sponsored Research Projects and Consultancy	D	Efforts shall be made to get external funded research projects and consultancy
4.3	Innovative processes adopted in teaching & learning	B	Quiz exams are being conducted at the end of every module. Quality Circle on learning is introduced. Additional experiments are introduced in labs wherever possible
4.4	Faculty publications in journals: h-index: Highest in the faculty: 6	B	SCIE: 06 Scopus: 11 Patents: 2 published,

			2 granted h-index: highest-6
4.5	Publications in conferences:	B	National (Scopus, SCI & equivalent): 15 International (Scopus, SCI equivalent): 6
4.6	Faculty contribution in: (Books/Chapters with ISBN only are considered)	D	Books: 00 Book Chapters: 01
4.7	Government: Funded R&D projects	D	Applied: 01 (Rs.: 23,89,200/-) Ongoing: Nil Completed: Nil Total amount:
4.8	Non- Government: Funded R&D projects / Industry sponsored projects	D	Applied: Nil Ongoing: Nil Completed: Nil
4.9	Faculty involved in Consultancy & amount earned	D	Nil
4.10	Faculty intellectual property rights / Patents:	C	Published:2 Granted:4
4.11	In-house R&D grants & projects and their outcomes:	C	MATLAB Deep Learning Tool box- Rs:69,533/-
4.12	New research facilities/ laboratory facilities added	B	2 Labs IoT Lab and AAS Lab
4.13	MOU"s with industries/ R&D/ Premier Institutes	B	9 activities conducted
4.14	Research centers of excellence established: Nil	D	Nil
4.15	Skill development centers established:	D	Nil
4.16	Incubation centers	D	Established with outside Industries: Nil
4.17	Start-ups & Entrepreneurships:	D	Motivate the students to inculcate start-up culture.

(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):	B	More than 70%
5.2	Professional society/Chapter activities	B	ISTE / IETE / IEEE
5.3	Number of capability enhancement and development schemes:	A	12 programs are conducted
5.4	Support for competitive examinations and career counselling	C	Motivate students to go for higher studies
5.5	Number of students who opted for higher studies:5	C	

5.6	Student pass percentage			Students pass percentage by the time of final year is more than 94%
	First Year	I SEM: 68.7%	A	
	First Year	II SEM: 85.04%		
	Second Year	I SEM: 75%		
	Second Year	II SEM: 82.01		
	Third Year	I SEM: 83.33		
	Third Year	II SEM: 95.62		
	Final Year	I SEM: 96.09		
	Final Year	II SEM: 99.22%		
	Pass percentage of the outgoing batch: 94.6%			
	No of students who have graduated without backlogs in any semester of study: 89 (61.8%)			
5.7	Placements			Number of quality placements with higher salary package have to be increased
	Total No of Final Year Students(N): 128		B	
	No of students placed in the companies (X) (headcount only: 98			
	Percentage of Placements (X/N): 76.5%			
	No of students placed (Pay Package >= 10 Lakhs): Nil			
	No of students placed (Pay Package < 10 Lakhs and ≥ 5 Lakhs): 18			
	No of students placed (Package ≤ 5 Lakhs): 80			
	Highest pay Package: 9 LPA			
	Minimum Pay Package: 2.2 LPA			
	Average pay package: 4.38 LPA			
	Median pay package: 4 LPA			

Quality Circles and Outcomes:

Quality Circle 1: Research and Consultancy

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 FDP's and to participate in various workshops and conferences.

Quality Circle 4: Language Enhancement

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

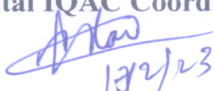
Best Practices in the Department:

- Efficient usage of online and offline resources for academic administration.
- Field projects for students through institute-industry interaction
- Learning circle for slow learners by peer mentoring
- Quizzes are conducted regularly at the end of every unit.
- Conducting additional experiments for advanced learners in some of the labs wherever possible.

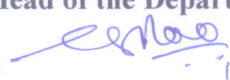
SUGGESTIONS FOR IMPROVEMENTS:

- Focus on external funded research and consultancy
- Placements in core companies are to be focused.
- Industry-Institute interaction may be given a priority

Name and Signature of the Departmental IQAC Coordinator

M. Srinivasa Rao 
13/2/23

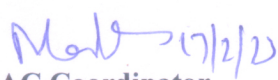
Name and Signature of the Head of the Department

Dr. C. Subbarao 
17/02/23

Name and Signature of the External Auditor:


1. A. S. Balu
17/2/23
(Prof. A. Sarath Babu)

2. 
17.2.23
(Prof. A. Venu Gopal)

Dr. S. Madhavi 
17/2/23
Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

K. SIVASI BABU


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INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

Department of Electrical and Electronics Engineering

AY: 2021-22

17-2-2023

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

Name of the Principal: Dr. K. Sivaji Babu

S N O	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
	ELECTRICAL AND ELECTRONICS ENGINEERING	130+12	130+12
UG TOTAL:			142
PG (Engineering)			
	ELECTRICAL AND ELECTRONICS ENGINEERING (Program closed in AY 2021-22)	18	1
PG TOTAL		1	--
UG & PG TOTAL:		150	143

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	Available
1.2	Revision / Update of regulation or syllabi	A	Updated regularly as per AICTE, JNTUK and APSCHE guidelines PVP-R20 revised in 2020-21
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2021-22	B	Industrial tours, skill development programs, guest lectures have been organized
1.4	Total No. of teaching days during the AY: 2021-22 IV Year-I Semester: 112 III Year-I Semester: 108 II Year - I Semester: 102 IV Year - II Semester: 105 III Year - II Semester: 105 II Year - II Semester: 108	A	More than stipulated guidelines of AICTE
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi	A	Given to the students in the beginning of the session and made available in website
1.6	Academic, administrative setup and functioning	A	Functional setup is available

A. S. Balu
17/2/23

SPD
17.2.23

1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength	A	Professors - 3 Associate Professors - 4 Assistant Professors - 19 STR - 1: 17.44
1.8	Class rooms, program specific labs, computing facility and other labs availability	A	Class Rooms – 7 Tutorial rooms – 3 Seminar Hall – 1 (sharing with Mechanical) Programme specific labs-10
1.9	Attainment levels of the POs of the programme	PO attainment level	
	B.Tech. in Electrical and Electronics Engineering	A	All POs are attained against the target value of 1.8 (60%)
1.10	New courses introduced:	A	New courses introduced:18 % of up gradation in course content: 52%
1.11	Lab Component	A	2 additional experiments are being conducted in every lab beyond curriculum
1.12	Number of courses focusing on employability /entrepreneurship/ skill development: 95%, value added courses: 04	A	
1.13	Number of students undertaken	A	full time field projects – 7 full time internships – all students

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions:	C	
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 25%	A	Faculty a. with PhD: 10 b. awarded PhD: 01 c. submitted PhD: 01 d. pursuing PhD: 14
2.3	Faculty guiding /guided PhDs:	B	Guiding 3 scholars
2.4	e-Content development / Lectures added to Web-resources	A	e-Content is made available on institute MOODLE servers
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process:	A	Conferences: 10 Webinars: 10 Workshops: 14 FDPs: 114 STTPs: 42

2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	C	Is limited to one or two faculty members only.
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(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome	A	Support for slow learners is well established.
3.2	Mechanism and activities for Advanced Learners Outcome	C	Activities are conducted with a focus only to improve placements.
3.3	Value added courses	D	NIL
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	C	Field projects are encouraged
3.5	Monitoring of Teaching Learning Process	A	Review of lesson plans by the HoD regularly at every 15 days from the beginning of semester
3.6	Initiatives undertaken towards faculty development	A	Faculty are supported by providing Regn. and travel to attend FDPs.
3.7	Development Programmes for supporting staff	B	Regular in-house programs are being organized to train the staff on new equipment in the labs

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambience, activity and innovation (quality & quantity)	C	Not evident
4.2	Sponsored Research Projects and Consultancy	D	Nil In-house: Rs. 2.9 lakhs
4.3	Innovative processes adopted in teaching & learning	B	Flipped classes and blended learning
4.4	Faculty publications in journals: h-index: Highest in the faculty: 20	C	SCIE: 09 Scopus: 30
4.5	Publications in conferences:	C	National (Scopus, SCI & equivalent): NIL International (Scopus, SCI equivalent): 07
4.6	Faculty contribution in: (Books/Chapters with ISBN only are considered)	D	Books: Nil Book Chapters: 06
4.7	Government: Funded R&D projects	D	Applied: Rs.16.58 L Ongoing: Nil

			Completed: Nil
4.8	Non- Government: Funded R&D projects / Industry sponsored projects	D	NIL
4.9	Faculty involved in Consultancy & amount earned	D	Nil
4.10	Faculty intellectual property rights / Patents:	C	Published:08 Granted: Nil
4.11	In-house R&D grants & projects and their outcomes:	C	Ongoing: Rs.2.90 L 3 projects, resulting in publications.
4.12	New research facilities/ laboratory facilities added	C	2 additional experiments are included in each and every lab beyond curriculum
4.13	MOU"s with industries/ R&D/ Premier Institutes	B	9 Functional MoUs leading to internships and field projects.
4.14	Research centers of excellence established: Nil	D	Nil
4.15	Skill development centers established:	D	Nil
4.16	Incubation centers	D	NIL
4.17	Start-ups & Entrepreneurships:	D	Motivate the students to inculcate start-up culture.

(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):	B	60%, focus shall be given to improve these results
5.2	Professional society/Chapter activities	B	ISTE: 03 SESI: 03
5.3	Number of capability enhancement and development schemes:	B	Organized 6 programs with a focus on improving placements
5.4	Support for competitive examinations and career counselling	C	Motivate students to go for higher studies
5.5	Number of students who opted for higher studies:2	C	
5.6	Student pass percentage		The percentage of pass in II year, I sem is very poor. Students pass percentage by the time of final year is more than 81%
	First Year I SEM: 65.59%	A	
	First Year II SEM: 73.63%		
	Second Year I SEM: 45.16%		
	Second Year II SEM: 71.54%		
	Third Year I SEM: 82.50%		
	Third Year II SEM: 79.37%		

	Final Year I SEM: 84.32%		
	Final Year II SEM: 94.78%		
	Pass percentage of the outgoing batch:	81.80%	
	No of students who have graduated without backlogs in any semester of study:	52	
5.7	Placements		
	Total No of Final Year Students(N): 126	B	Number of quality placements with higher salary package have to be increased. Efforts shall be made to attract more core companies for placements.
	No of students placed in the companies (X) (headcount only: 88		
	Percentage of Placements (X/N): 70%		
	No of students placed (Pay Package \geq 10 Lakhs): Nil		
	No of students placed (Pay Package $<$ 10 Lakhs and \geq 5 Lakhs): 09		
	No of students placed (Package \leq 5 Lakhs): 79		
	Highest pay Package: 6.5 LPA		
	Minimum Pay Package: 2.2 LPA		
	Average pay package: 3.91 LPA		
	Median pay package: 4 LPA		

Quality Circles and Outcomes:

Quality Circle 1: Research and Consultancy

Outcome: To enhance quality publications in SCI, Scopus and WoS.
To apply for external funded projects and consultancy.

Quality Circle 2: Student Placements

Outcome: To enhance the skills among students by organising Skill Development Programs, internships and innovation training.


Best Practices in the Department:

- Efficient usage of online and offline resources for academic administration.
- Field projects for students through institute-industry interaction.
- Conducting 2 additional experiments for advanced learners in all the labs.
- Conducting regular industry visits for the students right from 2nd year onwards.

SUGGESTIONS FOR IMPROVEMENTS:

- Efforts shall be made to apply and get external funded research and consultancy
- Efforts are to be made to invite core companies for placements
- Industry-institute interactions have to be given a priority.

Name and Signature of the Departmental IQAC Coordinator

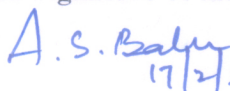

(Dr. N. Vijaya Anand)

Name and Signature of the Head of the Department



(Dr. Ch. Padmanabha Raju)

Name and Signature of the External Auditor:

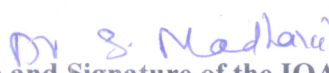
1.


(Prof. A. Sarath Babu)

2.



(Prof. A. Venu Gopal)

Name and Signature of the IQAC Coordinator


Dr. S. Madhavi

Name and Signature of the Principal

K. SIVASI DADU


PRINCIPAL
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SIDDHARTHA INSTITUTE OF TECHNOLOGY
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**(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

Department of Information Technology

AY: 2021-22

17-2-2023

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

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

S N O	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
	B.Tech.- Information Technology	120	128
UG & PG TOTAL:		120	128

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders:	A	Available
1.2	Revision / Update of regulation or syllabi:	A	Updated regularly as per AICTE, JNTUK and APSCHE guidelines
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: 2021-22	B	3 Value added courses are conducted
1.4	Total No. of teaching days during the AY: Semester I: II YEAR: 102 days III YEAR: 108 days IV YEAR: 112 days Semester II: II YEAR: 108 days III YEAR: 105 days IV YEAR: 105 days	A	More than stipulated guidelines of AICTE
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi:	A	Given to the students in the beginning of the semester and also made available in website
1.6	Academic, administrative set up and functioning	A	Functional setup is available
1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength	B	Professors :3 Associate Professors:1 Assistant Professors:19 SFR:18.61 Non-Teaching Staff: 6
1.8	Class rooms, program specific labs, computing facility and other labs availability Class Rooms:9 Labs: 8, Seminar Hall:1 Incubation center:1	A	Classrooms and Labs are sufficient.

1.9	Attainment levels of the POs of the programme B.Tech in Information Technology	A	All POs are attained with a target = 2.16
1.10	New courses introduced	A	17 courses are upgraded % of upgradation in the course content = 40.5%
1.11	Lab Component	B	No of new experiments introduced: 5
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	5 Skill development courses were introduced, each at the end of second semester onwards Placement Training is focused from the second semester onwards
1.13	Number of students undertaken	A	-field projects: Nil -full time internships: 90

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and Recognitions --2	B	Faculty recognised by JNTUK as research supervisors.
2.2	Faculty qualifications: Percentage of existing faculty with PhD a. Faculty awarded with PhD: 12 b. Faculty submitted their PhD: 1 c. Faculty pursuing PhD: 4 d. Faculty registered for PhD: Nil	A	75%
2.3	Faculty guiding /guided PhDs: 3 AQAR3.2.3	C	Guiding 3 PhDs
2.4	e-Content development / Lectures added to Web-resources:	A	e-content for the Course on Big Data Analytics is developed All Lectures were posted on institute website
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process Faculty attended workshops/FDPs.	A	50 FDPs of 1 week duration were attended
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	C	Only one faculty member is involved in outreach activities such as Session Chair, BoS member and resource person in FDP.

(3) Teaching-Learning Process and Evaluation

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners Outcome:	A	Support for slow learners is well established
3.2	Mechanism and activities for Advanced Learners Outcome:	C	Motivational classes by alumni to improve placements and higher studies are being conducted
3.3	Value added courses	B	3 programs are conducted to improve quality placements.
3.4	Initiatives taken for innovative mini and major projects	B	2 Industrial projects are performed by the students
3.5	Monitoring of Teaching Learning Process	A	Regular monitoring is done
3.6	Initiatives undertaken towards faculty development	A	Faculty are supported by providing Regn. and travel to attend FDPs.
3.7	Development Programmes for supporting staff	B	Regular in-house training programs on latest S/W are being organized.

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance, activity and innovation (quality & quantity)	D	Not evident
4.2	Sponsored Research Projects and Consultancy: In-house Sponsored Research Projects: 4	D	Nil
4.3	Innovative processes adopted in teaching & learning	B	
4.4	Faculty publications in journals: Scopus indexed: 7 SCI / SCIE (Not ESCI): 3 H-index: Dept & Highest in the faculty: 4	B	Quality and Quantity of publications have to be increased.
4.5	Publications in conferences: - National (Scopus, SCI & equivalent): Nil - International (Scopus, SCI equivalent): 9 - Others: 5	C	Quality and Quantity of publications have to be increased.
4.6	Faculty contribution in: - books: 1 - book chapters: 8	B	
4.7	Government: Funded R&D projects: NIL	D	Faculty shall apply for external funded research projects
4.8	Non-Government/Industry: Funded R&D projects Applied: 4 (in-house), Amount: Rs.1,60,000/- Completed: 1 Amount: Rs. 35,000/-	D	Faculty shall apply for Non-Govt. external funded research projects

4.9	Faculty involved in Consultancy & amount earned: NIL	D	Consultancy has to be focused
4.10	Faculty intellectual property rights / Patents: Filed: 0 Published: 4 Granted:0	C	
4.11	In-house R&D grants & projects and their outcomes: Nil	C	Faculty should apply for in-house funded projects
4.12	New research facilities/ laboratory facilities added	C	
4.13	MOU's with industries/ R&D/ Premier Institutes 7 functional MoUs 2 activities conducted	B	MoUs with R&D and Academia shall be focused to increase the research activities.
4.14	Research centers of excellence established: Nil	D	
4.15	Skill development centers established: NIL	D	
4.16	Incubation centers: NIL	D	
4.17	Start-ups & Entrepreneurships: Conducted awareness talks on Start-ups & Entrepreneurships to students and Faculty. No of Start-ups & status: NIL	D	Start-up culture has to be inculcated among the students

(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) I-I 87.8%, I-II:76.8%	A	More than 76%
5.2	Professional society/Chapter activities:	B	ISTE, IEEE
5.3	Number of capability enhancement and development schemes: 3	C	More number of schemes are to planned
5.4	Support for competitive examinations and career counselling (461 students)	B	
5.5	Number of students who opted for higher studies: 8	C	
5.6	Student pass percentage	A	Students progression is consistent and the final pass percentage is more than 95%
	First Year I SEM: 88.80%		
	First Year II SEM: 76.80%		
	Second Year I SEM: 83.57%		
	Second Year II SEM: 80.00%		
	Third Year I SEM: 89.29%		
	Third Year II SEM: 94.29%		
	Final Year I SEM: 94.81%		
	Final Year II SEM: 99.26%		
	Pass percentage of the outgoing batch		

	96.29%		
	No of students who have graduated without backlogs in any semester of study: 83		
5.7	Placements		
	Total No of Final Year Students(N): 135		
	No of students placed in the companies (X) (headcount only): 112		
	Percentage of Placements (X/N): 82.96%		
	No of students placed: 112		
	(Pay Package >= 10 Lakhs)		
	No of students placed: 1		
	(Pay Package < 10 Lakhs and >=5 Lakhs)		
	No of students placed: 47		
	(Package <=5 Lakhs): 64		
	Highest pay Package: 12.00 LPA		
	Minimum Pay Package: 3.00 LPA		
	Average pay package: 5.06 LPA		
	Median pay package: 4.50 LPA		
		B	Though the number of placements is good, the number of quality placements with higher salary package have to be increased

Quality Circles and Outcome: The department has formed Two Quality Circles

Quality Circle 1: Knockout backlogs

Outcome: Special attention on academically weak students to improve success rate. The success of backlog students has been improved.

Quality Circle 2: Quality Placements

Outcome: Skill Training is given to students through various coding platforms like CodeChef, Hackerrank, Hackerearth, geeks for geeks, Leetcode, CodeForces, InterviewBit and certification courses to get high package placements.

Best Practices in the Department

- Students are offered Certification courses like AICTE Eduskills (AWS, Cyber Security, RPS) tableau, Infosys spring board platform, etc.
- The backlog students are given a special focus to improve the percentage of students clearing the degree in four years.

SUGGESTIONS FOR IMPROVEMENTS:

- External funded Research and consultancy have to be given priority
- Industry-Institute interaction may be increased.
- Quality of placements with higher salary may be improved

Dr. A. Haritha 17/2/23

Name and Signature of the Departmental IQAC Coordinator

Dr. B. V. Subba Rao 17/2/23
Name and Signature of the Head of the Department

Name and Signature of the External Auditor:

1. A. S. Babu 17/2/23
(Prof. A. Sarath Babu)

2. A. Venu Gopal 17.2.23
(Prof. A. Venu Gopal)

Dr. S. Madhavi 17/2/23
Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

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INTERNAL QUALITY ASSURANCE CELL (IQAC)



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

Department of Mechanical Engineering

AY: 2021-2022

17-2-2023

(EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT)

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

Excellent	Good	Satisfactory	Need Improvement
A	B	C	D

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

Name of the Programme: Mechanical Engineering

S N O	Name of the Program	Sanctioned Strength	Actual Strength
UG (Engineering)			
		132	77
PG (Engineering)			
	Machine Design	07	00
UG & PG TOTAL:		139	77

(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	Revision / Update of regulation or syllabi (No Revision)
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:	A	Certification Programmes: 06 *Applications of Non-Destructive Testing Methods * Product Design and Drafting by CATIA * Game Design Using Build box * Python programming *3D EXPERIENCE PLATFORM (III YEAR) *3D EXPERIENCE PLATFORM (IV YEAR) Coursera: Students:05+17=22 Faculty: 18+04=22 NPTEL: Students:02 Faculty: 09+02=11 No. of Mandays: 5341

A. S. Balu
17/2/23

APD
17.2.23

1.4	Total No. of teaching days during the AY:2021-2022	A	Total No. of teaching days during the AY: 180
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi	A	Available
1.6	Academic, administrative set up and functioning	A	Academic, administrative set up available
1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength	A	Faculty strength :30+3 Professor: 4 Associate Professor: 5 Assistant Professor: 22+3 Teacher student ratio: 15.3 Non-teaching staff strength:10
1.8	Class rooms, program specific labs , computing facility and other labs availability	A	Class rooms :7 Tutorial Rooms :2 Labs :15 Research Labs: Composite lab; Refrigeration & Air-conditioning; Project Lab
1.9	Attainment levels of the POs of the programme B.Tech in Mechanical Engineering	PO attainment level	
		A	All PO's are attained for 2021-22 PO attainment: 2.29 to 2.53 (Target: 2.1)
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content	A	B.Tech-26 (More than 25% change in content) Percentage-31% change in content
1.11	Lab Component -New Labs added -No of new experiments introduced -New Hardware /software developed	A	New Labs added: 01 1.Composites Lab *Software license was renewed in CAD Lab
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	B.Tech-80%/6&/3% M.Tech-19 Percentage-96%
1.13	Number of students undertaken -full time field projects -full time internships	B	Field projects: 15% Internships: 45%

(2) FACULTY INFORMATION AND THEIR CONTRIBUTION

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions	B	
2.2	Faculty qualifications: Percentage of existing faculty with PhD a. Faculty awarded with PhD: b. Faculty submitted their PhD: c. Faculty pursuing PhD: d. Faculty registered for PhD	B	*Percentage of existing faculty with PhD :12/33=36.36% *Faculty awarded with PhD:01 *Faculty submitted their PhD: 02 *Faculty pursuing PhD:18 *Faculty registered for PhD: NIL

2.3	Faculty guiding /guided PhDs:	A	Faculty guiding /guided PhDs:06 guiding 14 students
2.4	e-Content development / Lectures added to Web-resources	B	*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:05 Seminars/Webinars:03 Workshops:11 FDPs:53 Training Programs-12 No. of mandays: 364
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	C	<ul style="list-style-type: none"> • BOS-01 • Selection committee -1 • Chief guest -05

(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. Success rate: 74%
3.2	Mechanism and activities for Advanced Learners/Outcome	B	*GATE classes were conducted *Placement Training
3.3	Value added courses Outcome	A	No. of man days: 5341
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	A	*Working Models from Projects:08 *Papers from Projects: 5 SCI Journal + 16 Scopus conference
3.5	Monitoring of Teaching Learning Process	A	*Lesson Plans were continuously monitored *Feedback taken on Teaching Learning Process from the students is continuously monitored
3.6	Initiatives undertaken towards faculty development	A	<u>Organized:</u> * FDP- 03 * International Conference- 01 * Webinars- 01 * Seminar -01 *Guest Lectures -04 <u>Attended:</u> Faculty have attended, 53 - FDPs

			12-Training programs 11-Workshops 03-Webinars
3.7	Development Programmes for supporting staff	B	*Workshop- 01 *STTP-01

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambience, activity and innovation (quality & quantity)	A	<p>*Design, Thermal & Production Research Groups were formed. *3 Lakhs seed money from SAGTE was sanctioned.</p> <p>* Out of 81 Patents, 51 patents were filed, 1 Patent was published and 39 were granted.</p> <p>Total:17 papers Scopus indexed: 12 papers, SCI/ESCI: 05 papers Others:24 International Conferences: 28 (05 papers are Scopus, 23 papers are Non-Scopus)</p>
4.2	Sponsored Research Projects and Consultancy	A	<p>*One AICTE RPS project worth of Rs. 11,56,863/- Consultancy: Rs. 51,645/-</p>
4.3	Innovative processes adopted in teaching & learning	B	NPTEL, Video lectures, Google Classroom, Cut Models, Working Models etc.
4.4	Faculty publications in journals: Scopus indexed: SCI / SCIE (Not ESCI): Total: h-index: Dept & Highest in the faculty.	B	<p>Scopus indexed: 12 SCI / SCIE (Not ESCI): 05 Total: 17</p>
4.5	Publications in conferences: - National (Scopus, SCI & equivalent) - International (Scopus, SCI equivalent) - Total:	B	<p>Publications in conferences: 28 National: NIL International: Scopus:05 Non-Scopus:23</p>
4.6	Faculty contribution in:books:book chapters: (Books/Chapters with ISBN only)	B	Book chapters: 02
4.7	Government: Ongoing: Funded R&D Total Amount:	B	<p>Applied: 06 Total Amount: 1,56,73,596/-</p>

	projects		Ongoing: 01 Total Ongoing Amount: 11,56,856/-
4.8	Non- Government: Funded R&D projects / Industry sponsored projects	C	Applied: 01 Total Amount: 50,000/- Ongoing: 01 Total Amount: 50,000/- Completed: NIL Total Amount: NIL
4.9	Faculty involved in Consultancy & amount earned	B	Consultancy: Rs. 51,645/-
4.10	Faculty Filed: intellectual Published: property Granted: rights / Patents:	A	Filed: 51 Published: 01 Granted: 39
4.11	In-house R&D grants & projects and their outcomes	B	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	B	
4.13	MOU's with industries/ R&D/ Premier Institutes Details of activities	B	12 functional MOUs
4.14	Research centers of excellence established: Outcome in research centers	B	JNTU-K has recognized the department as Research center. Outcome: * 13 Faculty were recognized as research guides * 14 Scholars have been allocated to 6 faculty.
4.15	Skill development centers established: outcome:	B	Dassault systems lab has been established by APSSDC where the students are getting trained.
4.16	Incubation centers: - Established with outside Industries: - Status of incubation:	D	-
4.17	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	D	-

(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)	B	34/77 = 44.15%; need improvement
5.2	Professional society/Chapter activities	A	* ISTE * ISHRAE * IE

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	B	*Gate Classes *student training programme
5.5	Number of students who opted for higher studies	B	GATE No: 02 GRE No. 10 IELTS-06 TOEFL-04 Others(specify): Duolingo- 03
5.6	Student pass percentage		
	First Year I SEM 40%	B	Pass %, especially in first year needs improvement
	First Year II SEM 48.6%		
	Second Year I SEM 58.8%		
	Second Year II SEM 64.4%		
	Third Year I SEM 60.8%		
	Third Year II SEM 66.7%		
	Final Year I SEM 78.6%		
	Final Year II SEM 84.1%		
	Pass percentage of the outgoing batch 79%		
	No of students who have graduated without backlogs in any semester of study: 99		
5.7	Placements		
	Total No of Final Year Students(N) - 127	B	Quality (core companies) and quantity of placements need improvement
	No of students placed in the companies (X) (headcount only - 84		
	Percentage of Placements (X/N) – 66.14%		
	No of students placed		
	(Pay Package >= 10 Lakhs) - 0		
	(Pay Package >= 10 Lakhs) - 20		
	(Package <=5 Lakhs) 64		
	Highest pay Package 6.28 lpa		
	Minimum Pay Package 2.1 lpa		
	Average pay package 3.75 lpa		
	Median pay package 3.5 lpa		

Quality Circles and Outcome: Reports Attached

- 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

Best Practices in the Department

1. Excellent record of patents filed, published and granted resulting in receiving awards for record number of patents filed.
2. Honors program is being offered.
3. Department has an ongoing research project sponsored by external agency.

SUGGESTIONS FOR IMPROVEMENTS:

1. Department may address prospective students to improve the quality of admitted students
2. Need improvement in pass % especially at I year and II year level
3. Need to improve the core placements
4. R&D and consultancy need to be improved.

E. Kavitha 17/2/2023

Name and Signature of the Departmental IQAC Coordinator

Dr. B. RAGHU KUMAR 17/2/23

Name and Signature of the Head of the Department

Name and Signature of the External Auditor:

1. A. S. Babu 17/2/23
(Prof. A. Sarath Babu)

2. A. Venu Gopal 17.2.23
(Prof. A. Venu Gopal)

Dr. S. Nataraj 17/2/23

Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

K. SIVAJI BABU

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