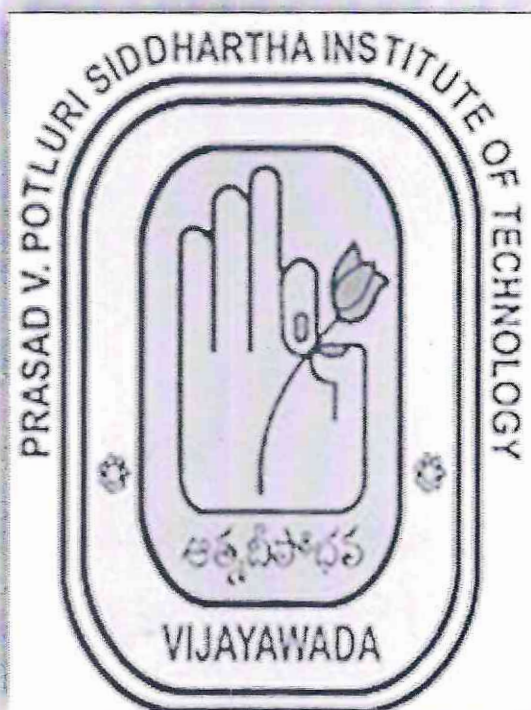# Prasad V. Potluri Siddhartha Institute of Technology
(Autonomous)
Kanuru, Vijayawada – 520 007

(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

2023 – 24

(EXTERNALACADEMIC 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 & Engineering -	198	197
PG (Engineering)	NIL		
UG & PG TOTAL:		198	197

(1) ACADEMIC ACTIVITIES

SNO	ITEM	GRADE	COMMENTS
1.1	Feedback on curricular and other aspects from stakeholders	A	**Yes.** Feedback from students, alumni, parents and faculty is collected regularly
1.2	Revision / Update of regulation or syllabi:	A	Syllabus is revised in PVP20, PVP23 regulation as per CBCS and APSCHE
1.3	Academic activity conducted beyond the prescribed curriculum during the AY:	A	**Workshops – 08 Seminars - 04 Webinar – 14 (Alumni) Guest Lectures – 04**
1.4	Total No. of Teaching days during the A.Y:2023-24 IV Year–I Semester: 96 Days (17-07-2023 to 18-11-2023) III Year–I Semester: 96 Days (10-07-2023 to 28-10-2023) II Year – I Semester: 96 Days (07-08-2023 to 25-11-2023) IV Year – II Semester: 96 Days (19-12-2023 to 23-03-2024) III Year – II Semester: 102 Days 28-11-2023 to 23-03-2024) II Year – II Semester: 102 Days (27-12-2023 to 20-04-2024)	A	
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi:	A	**Available on Institute Website**
1.6	Academic, administrative set up and	A	**Defined roles clearly**

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			functioning :		

1.7	Faculty strength cadre-wise:	A	Professors: **04** Associate Profs: **06** Assistant Profs.: **26** Teacher student ratio - **19.05** Non-teaching staff strength: **11**
1.8	Class rooms, program specific labs, computing facility and other labs availability	A	: 1 –**Seminar Hall, 1-Incubation Center, Specific Labs – 5**
1.9	**Attainment levels of the POs of the programme** (Please attach Annexure if Required)	**PO attainment level**	
	B.Tech in Computer Science & Engineering **Annexure – 1**	A	
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content	A	**PVP-20 : 20** **PVP -23 : 03**
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, MERN Stack Lab, Introduction to Linux OS lab, ADS Lab, Programming with Java**

1.12	Number of and % of courses focusing on employability /entrepreneurship skill development	A	**PVP - 20**
			a) Employability : 111
			b) Entrepreneurship : 05
			c) Skill development : 10
			PVP - 23
			  a. Employability: **16**
			  b. Entrepreneurship: 00
			  c. Skill development: **4**

1.13	Number of students undertaken	A	-full time field projects : **09** -full time internships: **632,** **Paid -32**

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions:	A	**NPTEL SPOC : 01** **Guest Lectures Delivered/Judge : 04** **Journal Reviewers : 04** **NPTEL Top Performers :03** **FIF Stanford University, USA : 01**

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2.2	Faculty qualifications: Percentage of existing faculty with PhD : **17/ 36 : 47%**	A	a. Faculty awarded with PhD: **04** b. Faculty submitted their PhD: **00** c. Faculty pursuing PhD: **16** d. Faculty registered for PhD : **00**	
2.3	Faculty guiding /guided PhDs: **03/00**	A		
2.4	e-Content development / Lectures added to Web-resources : **Yes (MOODLE)**	A		
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process:	A	a) **Conferences- 10** b) **Workshops-06** c) **FDPs-44** d) **Certification Programs-13** e) Training Program-01	
2.6	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	B	**Guest Lectures Delivered : 04** **Journal Editorial Reviewers: 04** **Publications: 42**	

(3) **Teaching-Learning Process and Evaluation**

SNO	ITEM	GRADE	COMMENTS
3.1	Mechanism and activities for slow learners: Outcome :	A	**Remedial Classes Observed Improvement in more than 75% of students (78.69%)**
3.2	Mechanism and activities for Advanced Learners **Outcome:** • **244 students certified through NPTEL** **Elite + Gold - 02** **Elite + Silver – 65** **Elite - 108** **Top 1% - 02** **Top 2% - 05** **Top 5% - 08** **DISCIPLINE STAR AWARDS – 04** • **All 2nd and 3rd year students attempted contests in all platforms - 209 + 213 = 422** • **2 teams got selected for AICTE Hackathon 2023 Grand Finale**	A	**Encouraged to participate in** a) **Certification courses such as NPTEL, Infosys, Microsoft etc.** b) **Coding platforms such as Hackerank, Codechef, Leetcode, SPOJ, Interviewbit etc.** c) **National level Competitions**

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SNO	ITEM	GRADE	COMMENTS
	• **ACM Winter/Summer school Participation – 16**		and Hackathons d) **Winter/Summer School Training**
3.3	Value added courses : **Outcome:** • **244** students certified through NPTEL • Total **522** students certified through Spoken tutorial course organized by IIT Bombay • **441** students benefited from other courses	A	**NPTEL – 18 Spoken Tutorials: 10 Problem solving using DSA - 1 (166), Infosys Springboard : Programming with Java– 1 (62), Web Application Development – 1 (213)**
3.4	Initiatives taken for innovative mini and major projects Outcome: **Student Publications; Scopus: 1; Conferences: 19**	A	-**Encourage students to develop models and application oriented projects** - **Encourage students to select problems from latest research domain and publish their work in journals**
3.5	Monitoring of Teaching Learning Process : **Yes**	A	**Lesson Plan**
3.6	Initiatives undertaken towards faculty development **Salesforce Technologies - 1**	A	**1. Faculty attend minimum 2 FDPs on Latest Technologies organized by IITs, NITs, ATAL and Premier Institutes 2. Some of the Faculty members are attending skill development training provided by Industries**
3.7	Development Programmes for supporting staff :	C	**Nil**

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS

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4.1	Research ambiance, activity and innovation (quality & quantity) **Outcome:** Scopus indexed: **27** SCI / SCIE (Not ESCI): **14**	C	All faculty members are actively involved in research through Research Groups
4.2	Sponsored Research Projects and Consultancy:	C	Efforts for consultancy – Interacted with the Industry "JP Morgan" and efforts are being made to initiate consultancy project
4.3	Innovative processes adopted in teaching & learning:	A	Minimum of two innovative teaching methodologies are being implemented by faculty Partial course delivery by Alumni/Industry personnel.
4.4	Faculty publications in journals: Scopus indexed: **25** SCI / SCIE (Not ESCI): **13** Others : **02** Total: **40** h-index: Dept: **SCI – 3.81, Scopus – 4.51** Highest in the faculty: **SCI – 17, Scopus - 21**	A	
4.5	Publications in conferences: - National (Scopus, SCI & equivalent) : - - International (Scopus, SCI equivalent) : **19 + 04** **(Others)** - Total: **23**	A	
4.6	Faculty contribution in: ……..books: - ……..book chapters: - (Books/Chapters with ISBN only are considered: - NIL	C	
4.7	Government: Funded R&D projects Applied: **3** Total Amount: **4,30,60,832**…………. Ongoing:…**Results Awaited**…….. Total Amount: Completed:…**1** Total Amount:..**2,21,588**	C	
4.8	Non- Government: Funded R&D projects / Industry sponsored projects Applied:…**2,** Total Amount:**1,24,000**.. Ongoing:…**3** Total	C	

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		Amount:1,74,500 Completed: NIL Total amount:		
4.9	Faculty involved in Consultancy & amount earned : **NIL**	C	
4.10	Faculty intellectual property rights / Patents: **NIL** Filed:…**NIL**………..Published…**NIL**………., Granted…**NIL**…….	C	
4.11	In-house R&D grants & projects and their outcomes Projects: **02**, Amount: Rs.1,**24,000**/-	B	
4.12	New research facilities/ laboratory facilities added : **Adequate laboratory facilities are available**		
4.13	MOU"s with industries/ R&D/ Premier Institutes : **02** **CISCO,WAYCT** Details of activities : Internship with CISCO	A	
4.14	Research centers of excellence established: **NIL** Outcome:	C	
4.15	Skill development centers established: **NIL** outcome:	C	

4.16	Incubation centers: **Yes**
	- Established with outside Industries : ---
	-Status of incubation:
	  • Participation in AICTE SIH -
	    SIH2022 - 02 teams - won prizes
	    SIH2023 - 02 teams – Grand Finale
	    SIH2024 - 02 teams – Grand Finale
	  • Participation in Hackathons/Mobilithon
	    conducted by Premier Institutes and Industries
	    IIT Madras - 1 team
	    Starup Expo IIT Hyderabad – 5 teams
	    Volkswagen Technologies – 3 students
		B	

4.17	Start-ups & Entrepreneurships: **NIL** No of Start-ups & status: **NIL** Awards from outside platforms: **01 + 03**	C	

(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) : **173/198 = 87.3%**	A	
5.2	Professional society/Chapter activities:	A	ACM: **02** ISTE: **03** CSI: **03**
5.3	Number of capability enhancement and development schemes: **01,** University Innovation Fellow, Stanford University, USA 4 students are recognised as Innovation fellows Published one article in Change forward magazine, d-	A	01

A.s.Babu
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	Schools, Stanford University, USA Student publications: Journal: 1; Conferences: 19			
5.4	Support for competitive examinations and career counselling :		A	**Practice on aptitude and logical reasoning**
5.5	Number of students who opted for higher studies: **46**		A	
5.6	**Student pass percentage**			
	First Year I SEM : **89.45%**			
	First Year II SEM : **88.78%**			
	Second Year I SEM : **86.38%**			
	Second Year II SEM : **84.43%**		A	
	Third Year I SEM : **88.32%**			
	Third Year II SEM : **91.55%**			
	Final Year I SEM : **99.03 %**			
	Final Year II SEM : **100 %**			
	Pass percentage of the outgoing batch : **99.03%**			
	No of students who have graduated without backlogs in any semester of study : **153**			
5.7	Placements :			
	Total No of Final Year Students(N): **207**			
	No of students placed in the companies (X) (headcount only: **188**			
	Percentage of Placements (X/N) : **90.82%**			
	No of students placed : **01**			
	(Pay Package >= 10 Lakhs)			
	No of students placed : **57**			
	(Pay Package < 10 Lakhs and >=5 Lakhs)		A	
	No of students placed : **130**			
	(Package < =5 Lakhs)			
	Highest pay Package : **16.5 LPA**			
	Minimum Pay Package : **3.25 LPA**			
	Average pay package : **5.06 LPA**			
	Median pay package : **4.50 LPA**			

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Quality Circles and Outcome:

1. QC-1: Skill Oriented Training: Improved problem Solving skills leading to good placements
2. QC-2: Industry Institute Interaction: Improved Industry-Academia relation and to make students industry ready
3. QC-3: Certifications Courses: Students get certified on latest technologies for enhancing knowledge and skills
4. QC-4: Research and Consultancy: To improve quality publications and R&D activities.

Best Practices in the Department

1. Training on advanced problem solving/coding on various platforms resulting in success in Student competitions and placements
2. Partial course delivery by Industry experts and also on Advanced technologies.
3. Promoting self- learning by encouraging students to do courses on Open Source Platforms.
4. Established an Incubation Centre and promoting Start-up Culture.

SUGGESSIONS FOR IMPROVEMENTS:

1. Identify and pursue funding opportunities from Government and private agencies.
2. Develop industry-Academic collaboration to increase consultancy services
3. Quality of placements need improvement.

Name and Signature of the Departmental IQAC Coordinator

Ms. D. Sree Lakshmi

Name and Signature of the Head of the Department

Dr. A. Jayalakshmi

Dept. of Computer Science & Engg.
PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY

Name and Signature of the External Auditor:

1. Prof. A. Sarath Babu, NIT Warangal
2. Prof. A. Venu Gopal, NIT Warangal

Prof. B. Raghu Kumar
Name and Signature of the IQAC Coordinator

Prof. K. Sivaji Babu
Name and Signature of the Principal

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)
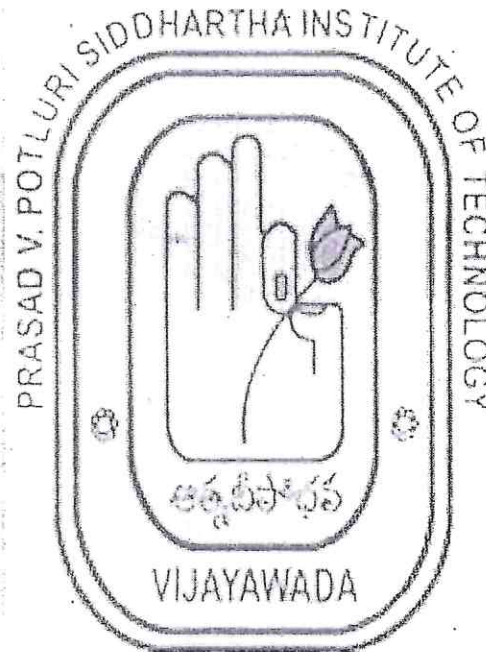
EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

Computer Science and Engineering

2022 – 23

18.12.2023

(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 & Engineering -	198	216
		18 (Lateral Entry)	
PG (Engineering)			
	Nil		
UG & PG TOTAL:		216	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 : Yes Syllabus is revised in PVP20 regulation as per CBCS and APSCHE	A	The curriculum is updated as per PVP-20 Regulations
1.3	Academic activity conducted beyond the prescribed curriculum during the AY: Guest Lectures: 05 Industry Institute Interaction/ Webinar : 08 Workshops: 09 Seminar: 03	A	Offering B.Tech. CSE Honors and Minor in CSE
1.4	Total No. of teaching days during the AY: 180 V Year–I Semester: 92 Days (01.08.2022 to 26.11.2022) III Year–I Semester: 91 Days (16.08.2022 to 10.12.2022) II Year – I Semester: 93 Days (05.09.2022 to 24.12.2022) IV Year – II Semester: 82 Days (26.12.2022 to 22.04.2023) III Year – II Semester: 104Days (02.02.2023 to 20.05.2023) II Year – II Semester: 82 Days (30.01.2023 to 13.05.2023)	A	Academic Calendar is strictly followed.

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		II Year – II Semester: 82 Days (30.01.2023 to 13.05.2023)		
1.5	Preparation, distribution and availability of time-tables, Academic Calendar, Curriculum and syllabi: Available on Institute Website	A	Given to the students in the beginning of the session and made available in the website
1.6	Academic, administrative set up and functioning: Defined roles clearly	A	Well defined Academic & Administrative set up is in place
1.7	Faculty strength cadre-wise, Teacher student ratio, Non-teaching staff strength: 11 Professors: 04, Associate Profs: 06, Assistant Profs.: 30 Teacher student ratio - 17.24. Non-teaching staff strength: 11	A	
1.8	Class rooms, program specific labs , computing facility and other labs availability: 1 –Seminar Hall, 1-Incubation Center, Specific Labs – 5	A	Adequate infrastructural facilities.
1.9	**Attainment levels of the POs of the programme Annexure – 1**	PO attainment level	
	B.Tech in Computer Science & Engineering:	A	
1.10	New courses introduced -Courses upgraded and percentage of up gradation in course content PVP-19: 13+7(other Dept. Courses) PVP-20 : 22+13(other Dept. Courses)	A	
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, MERN Stack Lab, Introduction to Linux OS lab, ADS Lab, Programming with Java
1.12	Number of and % of courses focusing on employability /entrepreneurship skill development - Employability : 108 Entrepreneurship : 03 Skill development : 06	A	
1.13	Number of students undertaken -full time field projects : 16 -full time internships : 436	A	

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A. S. Balu
18/12/23

18/12/23

(2) Faculty information and their contribution

SNO	ITEM	GRADE	COMMENTS
2.1	Faculty Awards and recognitions : NPTEL SPOC : 01 Guest Lectures Delivered : 01 Journal Editorial Members : 01	B	
2.2	Faculty qualifications: Percentage of existing faculty with PhD: 15/40 = 37.5% a. Faculty awarded with PhD: 00 b. Faculty submitted their PhD: 01 c. Faculty pursuing PhD: 21 d. Faculty registered for PhD : 00	A	2 Faculty will be submitting in This Years
2.3	Faculty guiding /guided PhDs: 03/01	B	
2.4	e-Content development / Lectures added to Web-resources- yes(Moodle, Gmeet, Youtube) Moodle	A	All the course material uploaded in moodle and Google class room.
2.5	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process - Workshops : 07 Webinars : 02 FDPs – 50 Guest Lectures -02 Conferences – 11 STTPs - 02 Certifications – 12 NPTEL /Coursera/Udemy – 03/03/07	A	
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: Yes, Remedial Classes	A	Observed improvement in more than 70% of the students

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3.2	Mechanism and activities for Advanced Learners: Skill Training on Problem Solving And Encourage students in participating National Level Coding competitions and Hackathon	A	4 teams got selected for AICTE Hackathon 2022 Grand Finale and 2 teams won prizes. GATE coaching, Advanced problem solving lab for employment.
3.3	Value added courses Spoken Tutorials : 09 Android Development with Kotlin - 01. NPTEL – 12 Microsoft – 05	A	
3.4	Initiatives taken for innovative mini and major projects -Training for students & faculty	A	Encouraging students To select problems from latest research domain and publish their work in journals
3.5	Monitoring of Teaching Learning Process – Yes	A	Monitoring by HoD every 15 days with Module and Program coordinators and students
3.6	Initiatives undertaken towards faculty development: 1.Faculty will attend minimum 2 FDPs on Latest Technologies organized by IITs, NITs and ATAL 2. Some of the Faculty members are attending skill development training provided by Industries	A	
3.7	Development Programmes for supporting staff: 01	A	

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18/12/23

18/12/23

(4) RESEARCH AND INNOVATION

SNO	ITEM	GRADE	COMMENTS
4.1	Research ambiance , activity and innovation (quality & quantity)	C	All faculty members are actively involved in research through Research Groups
4.2	Sponsored Research Projects and Consultancy Efforts for consultancy – Interacted with the Industry "JP Morgan" and efforts are being made to initiate consultancy project	C	
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: Scopus indexed: 30 SCI / SCIE (Not ESCI): 19 Others : 06 Total: 55 h-index: Dept: 2.36 Highest in the faculty.	A	Observed three times increase in the number of publications.
4.5	Publications in conferences: - National (Scopus, SCI & equivalent) : - International (Scopus, SCI equivalent) :24 - Total: 24	A	
4.6	Faculty contribution in: ....books: ....book chapters: 04 (Books/Chapters with ISBN only are considered :4	A	
4.7	Government: Funded R&D projects Applied: 04 Amount: 1,42,83,956 Ongoing: -- Amount: Completed: - Amount:	D	
4.8	Non- Government: Funded R&D projects / Industry sponsored projects Applied: 02 Amount: 1,06,500	D	
4.9	Faculty involved in Consultancy & amount earned : NIL	C	
4.10	Faculty intellectual property Filed: NIL	B	

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18/12/23

18/12/23

	rights / Patents:	Published: 02 Granted : 01		
4.11	In-house R&D grants & projects and their outcomes: Ongoing: 02 Amount: 1,06,500 Completed: NIL Amount:		B	
4.12	New research facilities/ laboratory facilities added Adequate laboratory facilities are available		A	
4.13	MOUs with industries/ R&D/ Premier Institutes :03 Details of activities : NIL		A	
4.14	Research centers of excellence established: NIL Outcome in research centers : Publications - 55		B	
4.15	Skill development centers established: Hexaware, Virtusa outcome: Placement: 14+21 = 35		A	
4.16	Incubation centers: - Established with outside Industries : -Status of incubation: NIL		B	
4.17	Start-ups & Entrepreneurships: No of Start-ups & status: 01 Awards from outside platforms: 6+6+4+1 = 17		A	

(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) : 160 /198	A	
5.2	Professional society/Chapter activities: ACM : 01 ISTE : 03 CSI : 01	A	
5.3	Number of capability enhancement and development schemes: 01(UIF)	A	Four students got recognized in UIF organized by Stanford University.
5.4	Support for competitive examinations and career counselling: GATE Training on "Data Structures and Algorithms"	A	
5.5	Number of students who opted for higher studies: 41	A	Observed a large number of students opting for

A. S. Raju
18/12/23

18/12/23

					higher studies.
5.6	Student pass percentage			A	Very good transformation rate.
	First Year	I SEM:85.20			
	First Year	II SEM:88.78			
	Second Year	I SEM:87.79			
	Second Year	II SEM:93.43			
	Third Year	I SEM:92.31			
	Third Year	II SEM:94.2			
	Final Year	I SEM:97.09			
	Final Year	II SEM:100			
	Pass percentage of the outgoing batch: 99.02				
	No of students who have graduated without backlogs in any semester of study: 144				
5.7	Placements			A	
	Total No of Final Year Students(N): 206				
	No of students placed in the companies (X) (headcount only: 183				
	Percentage of Placements (X/N): 88.83%				
	No of students placed : 03				
	(Pay Package >= 10 Lakhs)				
	No of students placed : 69				
	(Pay Package < 10 Lakhs and >=5 Lakhs)				
	No of students placed : 111				
	(Package < =5 Lakhs)				
	Highest pay Package: 16LPA				
	Minimum Pay Package: 2.50 LPA				
	Average pay package: 5.21LPA				
	Median pay package: 4.50LPA				

Quality Circles and Outcome:

Quality Circle – 1 : Skill Oriented Training

Outcome Expected :

- Enhance problem solving skills that leads to high package placements

Quality Circle – 2: Industry Institute Interaction

Outcome Expected :

- To bridge the gap between industry and academia and to make students industry ready
- Industry exposure to concepts present in the curriculum.

Best Practices in the Department:

- Providing training on advanced problem solving on Hackerrank, codechef, codeforces, Leetcode, Interviewbit and Spoj has been

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observed to result in a significant rise in the number of student selections in coding competitions.
- o Partial course delivery by Industrial experts resulting in industry exposure and awareness on emerging technologies.
- o Students are encouraged to do courses from NPTEL, Infosys Spring Board, Microsoft, Google and Service Now.

SUGGESSIONS FOR IMPROVEMENTS:

- The Department need to focus on external R&D and consultancy projects.

Name and Signature of the Departmental IQAC Coordinator

D. Sree Lakshmi — D. Sulakshi
18/12/2023

Name and Signature of the Head of the Department

A. JAYALAKSHMI — Jay 18/12/2023.

Name and Signature of the External Auditor:
1. A. SARATH BABU — A.S. Babu 18/12/23
2. A. VENU GOPAL — 18/12/23

Name and Signature of the IQAC Coordinator

Name and Signature of the Principal

Dr. B. RAGHU KUMAR 18/12/23
IQAC Coordinator
PVP Siddhartha Institute of Technology
Vijayawada

Dr. K. SIVAJI BABU 18/12/23
PRINCIPAL
PRASAD V.POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 007

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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

(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

SNO	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

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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 -	PO attainment level	
	B.Tech. in Ccomputer Science & Engineering	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

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| 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 |

(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

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			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: Funded R&D projects Applied: 07 Total Amount: 45,233,527. Ongoing:………… Total Amount:………… Completed:………… Total Amount:…………	D	No funded projects
4.8	Non-Government: Funded R&D projects / Industry sponsored projects Applied: Total Amount: Ongoing:………… Total Amount:………… Completed:………… 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	

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(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**		
	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	A	
	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		
	Total No of Final Year Students(N) - 131		
	No of students placed in the companies (X) (headcount only - 119		Improvement in placements with high package.
	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	B	
	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		

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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

Name and Signature of the Head of the Department

Dr. A. Jayalakshmi

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

Dr. K. Sivaji Babu

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