

**INTERNAL QUALITY ASSURANCE CELL (IQAC)  
V R SIDDHARTHA ENGINEERING COLLEGE**

**ACADEMIC AUDIT**

**Evaluation Sheet**

(with effect from 2020-21)

Department Name : Information Technology

Programme Name : B.Tech in Information Technology, M.Tech in AI & Data Science

Academic year : 2024-25

**Annual department plan** (enclose a separate sheet along with the previous 3 years planned & achieved data) -  
**(Enclosed in Annexure III)**

<b>I. POs, PSOs and Curriculum</b>		
<b>S. No</b>	<b>Criteria</b>	<b>Observations</b>
1.	POs& PSOs attainment along with sample calculation sheet	<b>PO Attainment</b>  Mapping of Course outcome with Program outcomes is done for 2021-25 batch <b>PSO Attainment</b>  PSO attainment is done for Internal course assessment for odd semester courses (even sem is in process of completion )
2.	Stake holders feedback collected, analyzed & action taken related to curriculum design (with evidences)	Feedback is collected from the stakeholders like parents, students and alumni in regard to curriculum VR20, VR23, SU24
3.	Extent of stake holders satisfaction with curriculum revision	The latest curriculum revision is VR23 and SU24 curriculums. The VR20 curriculum(160 credits) - APSCHE and AICTE <ul style="list-style-type: none"><li>- VR20 curriculum followed in 2020-21 AY</li><li>- IV/IV, III/IV and II/IV B Tech of 2023-24 AYh has followed VR20 curriculum</li><li>- VR20 curriculum is designed with 160 credits following APSCHE and AICTE model curriculum and has met industry requirements</li><li>- VR20 curriculum has been in effect for the students joined in AY 2020-21</li><li>- VR20 Academic Regulations were approved in Academic Council meeting</li><li>- VR20 curriculum is compared with VR17</li><li>- I/IV B Tech of 23-24 has followed VR23 curriculum</li></ul>

		<p><b><i>Extent of its satisfaction with curriculum revision (VR20)</i></b></p> <p><b><u>Highlights of VR20</u></b></p> <ul style="list-style-type: none"> <li>• Reduction of credits from 165 to 160</li> <li>• Honors/Minor Programs (20 Credits) Introduced</li> <li>• Honors is offered under two streams Cyber Security and AI &amp; Data Science.</li> <li>• Industry Internships (Mandatory) - Two summer internships each with a minimum of six weeks duration</li> <li>• Mandatory credit courses on - Skill/Job Oriented Courses and Soft skills</li> <li>• More Flexibility in CBCS with 7 CGPA - internships at industry on full time from 7<sup>th</sup> Semester</li> <li>• Universal Human Values introduced under Humanities and Social Sciences</li> <li>• Innovation, IPR and Entrepreneurship course made mandatory</li> <li>• Skill Advanced Courses introduced</li> <li>• Industrial/Research Internship six weeks (Mandatory) after 3<sup>rd</sup> year.</li> <li>• Mini Project I and Mini Project II are made mandatory</li> <li>• Eighth semester is designed with only Major Project / Internship without any theory courses.</li> </ul> <p><b><i>40% of the laboratory courses</i></b> are designed with learning by doing with the usage of current trends like :</p> <ul style="list-style-type: none"> <li>• Statistics with R</li> <li>• Computer Networks</li> <li>• Data Mining</li> <li>• Open Elective - I</li> <li>• Skill Oriented Course</li> <li>• Machine Learning</li> <li>• Deep Learning</li> <li>• Job Oriented Elective</li> </ul> <p>To conclude, VR20 has :</p> <ul style="list-style-type: none"> <li>• 05 Open <b><i>elective</i></b> / Job Oriented Elective</li> <li>• 05 Program Electives</li> <li>• 03 skill oriented courses</li> <li>• 17 Laboratory courses</li> <li>• 05 Internship / Project based courses</li> <li>• 01 Product development</li> <li>• 07 Self learning courses</li> <li>• 04 Soft skill courses</li> </ul>
4.	<ul style="list-style-type: none"> <li>-New courses introduced</li> <li>-Courses upgraded with more than 25%</li> </ul>	<p>In 24-25 AY, VR20 is implemented for IV/IV B Tech. VR23 is followed for III/IV B Tech while</p>

	of course content	<p>SU24 is followed for II/IV B Tech.</p> <p><b><u>New courses in VR23</u></b></p> <p><b><u>Courses upgraded with more than 25% of course content :</u></b></p> <p><b><u>Skill enhancement courses in VR20</u></b></p> <ul style="list-style-type: none"> <li>• Ethical Hacking</li> <li>• Google Go/React Programming</li> <li>• Use Interface Design and implementation</li> <li>• Full Stack Development</li> <li>• Augmented Reality and Virtual Reality</li> </ul> <p><b><u>New courses in VR23</u></b></p> <ul style="list-style-type: none"> <li>• Design Thinking</li> </ul>												
5.	<p>Lab component</p> <ul style="list-style-type: none"> <li>- New labs added</li> <li>- No.of new experiments introduced</li> <li>- New Hardware/Software developed</li> </ul>	<p><b><u>New Labs Added in VR23</u></b></p> <ul style="list-style-type: none"> <li>• Object Oriented Programming Lab</li> <li>• Advanced Data Structures and Algorithms Lab</li> <li>• Advanced Programming I Lab</li> <li>• Java Programming Lab</li> <li>• Data Base Management Systems Lab</li> <li>• Advanced Programming-II</li> <li>• Web Programming and Development Lab</li> <li>• Deep Learning Lab</li> <li>• Cloud Computing Lab</li> <li>• Operating Systems Lab</li> <li>• AI / Deep Learning lab</li> </ul> <p>No.of new experiments introduced</p> <p>Every year new experiments were added in all laboratory courses w.r.t current trends</p>												
6.	No & %age of courses focussing on employability/ entrepreneurship/ skill development.	<table border="1"> <thead> <tr> <th></th> <th>No of relevant courses</th> <th>% of courses</th> </tr> </thead> <tbody> <tr> <td>Entrepreneurship</td> <td>09</td> <td>8.8%</td> </tr> <tr> <td>Skill Development</td> <td>38</td> <td>37.25%</td> </tr> <tr> <td>Employability</td> <td>55</td> <td>53.92%</td> </tr> </tbody> </table>		No of relevant courses	% of courses	Entrepreneurship	09	8.8%	Skill Development	38	37.25%	Employability	55	53.92%
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Employability	55	53.92%												
7.	<p>No of students undertaken</p> <ul style="list-style-type: none"> <li>-full time field projects:</li> <li>-full time internships:</li> </ul>	<p>Total Internships in 2024-25 : 572</p> <p>II/IV B Tech in Eduskills : 212</p> <p>III/IV B Tech in Eduskills : 205</p> <p>IV/IV B Tech : 144</p> <p>Data Science M.Tech : 11</p> <p>Brief Details &amp; Summary of Internships : 572  @ Academic Institutes (NITs/IITs): 5  @ Industry :443, @ Non-Profit Organizations :124</p>												

## II. Faculty information and their contribution

S. No	Criterion	Observations																		
1.	Teacher-student ratio	1:22 (17.55) <ul style="list-style-type: none"> <li>• Total Faculty:31</li> <li>• 1st year:04</li> <li>• Total Students : 592</li> </ul>																		
2.	Faculty Cadre ratio	Total Faculty in 2024-25 : 31 <ul style="list-style-type: none"> <li>• Total faculty: 31</li> <li>• Professors: 03</li> <li>• Associate Professors: 04</li> <li>• Assistant Prof: 24</li> <li>• Faculty with Ph.d: 19</li> </ul>																		
3	Faculty experience & retention	Number of Faculty : <ul style="list-style-type: none"> <li>• less than 1Y : 01</li> <li>• 1Y &lt;= period &lt; 2Y : 01</li> <li>• 2Y &lt;= period &lt; 3Y : 04</li> <li>• 3Y &lt;= period &lt; 4Y : 02</li> <li>• 4Y &lt;= period &lt; 5Y : 02</li> <li>• 5Y &lt;= period &lt; 10Y: 03</li> <li>• More than 10Y : 18</li> </ul>																		
4.	Faculty qualifications: Percentage of existing faculty with PhD Faculty awarded with PhD: Faculty submitted their PhD: Faculty pursuing PhD: Faculty registered for PhD:	<ul style="list-style-type: none"> <li>• Percentage of existing faculty with PhD : 61.2% (19 out of 31 faculty)</li> <li>• Faculty awarded with PhD: 02</li> <li>• Faculty submitted their PhD: Nil</li> <li>• Faculty pursuing PhD: 12</li> <li>• Faculty registered for PhD: 01</li> </ul>																		
5.	Faculty with Post-Doctoral Fellowship or Pursuing it:	Faculty with Post-Doctoral Fellowship Pursuing :02																		
6	Faculty guiding/guided PhDs:	<p>13 faculty are guiding PhD scholars :</p> <table> <tbody> <tr> <td>Dr.M.Suneetha</td> <td>04 scholars</td> </tr> <tr> <td>Dr T Anuradha</td> <td>01</td> </tr> <tr> <td>Dr E LaxmiLidiya</td> <td>01</td> </tr> <tr> <td>Dr A Srisaila</td> <td>02</td> </tr> <tr> <td>Dr G Kalyani</td> <td>02</td> </tr> <tr> <td>Dr S Suhasini</td> <td>02</td> </tr> <tr> <td>Dr K Sitakumari</td> <td>02</td> </tr> <tr> <td>Dr Y Sangeeta</td> <td>01</td> </tr> <tr> <td>Dr V Radhesyam</td> <td>01</td> </tr> </tbody> </table>	Dr.M.Suneetha	04 scholars	Dr T Anuradha	01	Dr E LaxmiLidiya	01	Dr A Srisaila	02	Dr G Kalyani	02	Dr S Suhasini	02	Dr K Sitakumari	02	Dr Y Sangeeta	01	Dr V Radhesyam	01
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7.	Percentage of faculty contributing in ... .....research publications: .....books: .....chapters:	<p>All faculty are contributing in research publications</p> <p><b><u>Summary of Total Publications in 2024-25 AY (both students and faculty) : 149</u></b></p> <ul style="list-style-type: none"> <li>• SCI Indexed Journals- 15</li> <li>• Scopus Indexed Journals 17</li> <li>• Book Chapters-34</li> <li>• Scopus Conferences-83</li> <li>• Books – 03</li> </ul> <p><b><u>Faculty Publications Summary : 45</u></b></p> <ul style="list-style-type: none"> <li>• SCI Indexed Journals-15</li> <li>• Scopus Indexed Journals- 12</li> <li>• Book Chapters-10</li> <li>• Scopus Conferences-08</li> </ul> <p><b><u>Student Publications Summary : 104</u></b></p> <ul style="list-style-type: none"> <li>• Journals : 05</li> <li>• Conferences: 75</li> <li>• Book Chapters :24</li> </ul>								
8.	e-Content development / Lectures added to Web-resources	e-Content development / Lectures added to Web-resources : 03								
9.	Faculty <b><i>contribution</i></b> in professional organizations/ Reviewer /Editorial boards: (not mere memberships)	19								
10.	Academic Awards/Rewards received:	Academic Awards/Rewards received : 11 Best Paper Awards : 09, CISCO-01, NPTEL-01								
11.	Faculty contribution in Industry/ Institute collaborative projects	10+								
12.	Faculty trained in Industry	02								
13	Faculty contribution in obtaining internships/ Placements/ MoUs	03 faculty contributed towards obtaining MoU 03 MoUs are introduced in 2024-25 <b>Internships: 572</b>								
14	Faculty as resource persons in webinars/ workshops/ key note speaker /training activities	05								

15	<p>National level events organized</p> <ul style="list-style-type: none"> <li>-Conferences:</li> <li>-Workshops/Seminars:</li> <li>- Webinars</li> </ul> <p>-FDPs:</p> <p>International level events organized</p> <ul style="list-style-type: none"> <li>-Conferences</li> <li>- Webinars</li> <li>-Workshops/Seminars</li> </ul>	<p>Total programs organized in 2024-25 : 47</p> <p>Details are :</p> <ul style="list-style-type: none"> <li>✓ Seminars : 05</li> <li>✓ Conference : 01</li> <li>✓ Workshops: 13</li> <li>✓ Guest Lecture: 12</li> <li>✓ FDP/FTP: 04</li> <li>✓ Alumni Lecture Series: 04</li> <li>✓ Technical &amp; Non-Technical Events Competitions : 02</li> <li>✓ Outreach program: 04</li> <li>✓ Women day Celebrations 2025: 01</li> <li>✓ ACM &amp; CSI Student Chapter Event:01</li> </ul>
16	<p>List of conferences/seminars/webinars/ workshops/FDPs attended for the enrichment of teaching – learning process</p>	<p>Total Participations in 2024-25 : 253</p> <p>Details are :</p> <ul style="list-style-type: none"> <li>✓ Summit : 01</li> <li>✓ Workshops: 22</li> <li>✓ Conferences: 101</li> <li>✓ Guest Lecture: 11</li> <li>✓ FDP: 87</li> <li>✓ FTP/Professional Development Program:24</li> <li>✓ Webinar: 01</li> <li>✓ Summer / Winter School: 05</li> <li>✓ Industrial Trainings: 01</li> </ul>
17	<p>Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee /Academic auditing/ Chairperson /Chief guest/etc.)</p>	<p>01 faculty as internal academic audit expert in CSE department, VRSEC.</p> <p>02 faculty as ISO internal auditors to other depts., VRSEC</p> <p>01 faculty is BOS member in department of computers, PB Siddhartha College of Arts &amp; Science</p>

III. Teaching-Learning Process and Evaluation		
S. No	Criterion	Observations

1.	<p>Student performance indices – Measures to reduce detentions -Attendance(detentions if any): -Exams(detentions if any):</p>	<p>Attendance file , Examinations files are updated Attendance /Exams : No detention</p>
2.	<p>Mechanism and activities for slow learners: Outcome:</p>	<p>Activities for slow learners :</p> <ul style="list-style-type: none"> <li>• Proctor system</li> <li>• Class teacher counseling</li> <li>• Internal Marks Analysis</li> <li>• Quality circles are conducted in online/offline before 2-3 days of every exam for II/IV, III/IV B.Tech</li> <li>• Remedial classes are conducted</li> <li>• More problem oriented concepts in regular classwork</li> <li>• Six Phase training for II/IV B Tech and CCC for III/IVB Tech</li> </ul> <p>Outcome :</p> <ul style="list-style-type: none"> <li>• Above 50% of students secured above 60% in continuous assessments</li> <li>• Improved Pass% in 2-1</li> </ul>
3	<p>Mechanism and activities for Fast learners to excel: Outcome:</p>	<p>Activities for Fast learners to excel :</p> <ul style="list-style-type: none"> <li>• Addressing complex tasks in labs</li> <li>• Solving advanced problems in hackerrank/hackerarth</li> <li>• Providing internships to all CBCS students</li> <li>• Offered 08 Value Added Courses in current trends</li> <li>• Training by CCC and Six Phase</li> <li>• Extension of activities towards encouraging students participation in hackathon, coding events</li> </ul> <p>Outcome :</p> <ul style="list-style-type: none"> <li>- 100% Placement,</li> <li>- Improvement in Student Internships(572)</li> <li>- Student Paper Publications are 104 in 24-25.</li> <li>- 03 Best projects were attained. The details are documented in Projects Course file</li> <li>- Good number(594) of student online certifications</li> <li>- Good number(64) of student participations in technical events outside</li> </ul>

4	<p>Bridgecourses:</p> <p>Value added courses:</p>	<p>Bridge courses : 02</p> <ul style="list-style-type: none"> <li>II/IV B.Tech – Probability and Statistics</li> </ul> <p>Value Added Courses in 2024-25: 13 (06 in sem1, 07 in sem2)</p> <ul style="list-style-type: none"> <li>Web Technologies – 72 II/IV B Tech</li> <li>UI/UX design -72 II/IV B Tech</li> <li>CPP programming - 68 II/IV B Tech in collaboration with Pragmatic Solutions pvt ltd</li> <li>Power Bi - 71 III/IV B Tech in collaboration with Logility</li> <li>Google Earth Engine – 71 III/IV B Tech in collaboration with Moody's Analytics, Bangalore</li> <li>Security &amp; Forensic Tools -68 III/IV BTech in collaboration with Spyro Security solutions pvt Ltd</li> </ul> <p><u>Sem 2</u></p> <ul style="list-style-type: none"> <li>Matlab programming – 71 II/IV B Tech</li> <li>Remote sensing tools(QGIS)- 72 II/IV BTech</li> <li>Scripting tools (java script)- 72 II/IV BTech</li> <li>Flutter – 53 III/IV B Tech</li> <li>XLminer – 50 III/IV B Tech</li> <li>Mobile App Development -53 III/IV BTech</li> <li>Swift programming – 53 III/IV BTech</li> </ul>
5	<p>Quality circles and Practice:</p> <p>Outcome:</p>	<p>Quality circles are conducted in online/offline for I/IV, II/IV and III/IV B.Tech before 2-3 days of every exam.</p> <p>Outcome :</p> <ul style="list-style-type: none"> <li>Above 50% of students secured above 50% in continuous assessments</li> <li>Improved Pass% in semester end examination</li> </ul>
6.	<p>Student counseling/mentoring mechanism</p>	<ul style="list-style-type: none"> <li>Proctor Counseling: Continued effectively through dedicated WhatsApp groups for better communication and monitoring.</li> <li>Online Mentoring Sessions: Regular virtual meetings were conducted to provide guidance and address student concerns.</li> <li>Class Teacher Counseling: Counseling and guidance activities were consistently carried out by class teachers.</li> </ul>

		<ul style="list-style-type: none"> <li>• Faculty Mentoring in Projects: Senior faculty members mentored students as part of EPICS, Mini, and Major Projects, ensuring academic and professional development.</li> <li>• Proctor Diaries: Updated regularly for II/IV, III/IV, and IV/IV B.Tech students to systematically track counseling and mentoring activities.</li> <li>• Proctor reports are documented and filed.</li> </ul>
7.	<p>Initiatives taken for innovative mini and major projects</p> <p>-Training for students &amp; faculty</p>	<p><b><u>Improved Industry Interaction activities</u></b></p> <ul style="list-style-type: none"> <li>• Industry based certification courses are offered to students related to latest technologies through VR20 curriculum</li> <li>• 100% Internship training / Industry offered course is insisted as mandatory and implemented for students in III/IV B.Tech</li> <li>• Industry experts delivered 09 courses as part of curriculum VR20 for students : <ul style="list-style-type: none"> <li>✓ Block chain technologies</li> <li>✓ Cloud based CRM Platform (Salesforce)</li> <li>✓ React,</li> <li>✓ UI/UX design,</li> <li>✓ AR VR programming,</li> <li>✓ Full stack development,</li> <li>✓ Software testing /Automation</li> </ul> </li> <li>• Value Added Courses : 13 (invited industry experts to deliver lectures)</li> <li>• 01 faculty got trained at industry in current trends</li> <li>• All project guides were insisted to attain paper publication with the scope of the mini/major projects.</li> <li>• 100% students were successful in attaining project work publications in scopus indexed journals/conferences.</li> </ul> <p><b><u>Internship</u></b></p> <ul style="list-style-type: none"> <li>• Student internships are insisted during semester gap with 01-02 months</li> <li>• CBCS students have undergone long internships</li> <li>• Summary of Internships : 572  @ Academic Institutes (NITs/IITs): 5  @ Industry :443  @ Non-Profit Organizations :124 </li> </ul> <p><b><u>Skill based Learning</u></b></p> <p>Apart from technical, skill based learning is imparted through the specified :</p>

		<ul style="list-style-type: none"> <li>✓ Six Phase Training is conducted for II/IV B Tech students</li> <li>✓ CCC is conducted for III/IV B Tech students</li> <li>✓ Online Assessment Exams every week</li> <li>✓ Mock Tests/Guest lectures/webinars are conducted for IV/IV B.Tech students towards bringing out innovation in current trends</li> <li>✓ 13 Add-on courses were conducted for students</li> <li>✓ Coding lab is introduced for 2<sup>nd</sup>, 3<sup>rd</sup> and final year students in Hackerearth, code chef and Hackeranketc, to improve their coding skills</li> <li>✓ Online certification courses is continued and (594) students courses certifications is obtained</li> <li>✓ 01 faculty trained in industry in current trends</li> </ul>
8.	Best student projects with awards	<ul style="list-style-type: none"> <li>• 03 best projects are listed by External examiner. Projects titles are :</li> <li>• Optimizing Text Classification accuracy phrase based on deep learning integrations</li> <li>• Development of HealthCare management-system web and mobile application for med life</li> <li>• Land surface Temp dynamics and flood mapping insights across AP using GEE</li> </ul>
9	Student Model developments: Awards:	<p>Students in teams presented these projects</p> <ul style="list-style-type: none"> <li>• K S H Pranathi, III/IV &amp; IT Won <b>1st prize</b> in mini project presentation at NRI Institute of Technology on 05-01-2024</li> <li>• B Lakshmi, III/IV &amp; IT Won <b>1st prize</b> in mini project presentation at NRI Institute of Technology on 05-01-2024</li> <li>• Mallimpalli Yaswanth, III/IV &amp; IT Won <b>third prize</b> for his excellent performance in Innovative expo (Title: Innovative Currency Identifier for blind) conducted by E-SUMMIT'24 the Annual Entrepreneurial Conclave of the Indian Institute of Technology, Bhubaneswar on 04-02-2024.</li> <li>• Jessica Gutla III/IV &amp; IT Won <b>third prize</b> for his excellent performance in Innovative expo (Title: Innovative Currency Identifier for blind) conducted by E-SUMMIT'24 the Annual Entrepreneurial Conclave of the Indian Institute of Technology, Bhubaneswar on 04-02-2024.</li> <li>• Rajasri Maganti III/IV &amp; IT Won</li> </ul>

		<p><b>third prize</b> for his excellent performance in Innovative expo (Title: Innovative Currency Identifier for blind) conducted by E-SUMMIT'24 the Annual Entrepreneurial Conclave of the Indian Institute of Technology, Bhubaneswar on 04-02-2024.</p> <ul style="list-style-type: none"> <li>• Outside prize winning in technical events:83</li> <li>• Outside participation in technical events: 490</li> </ul>
10	<p><b>Student Innovation details:</b> <b>Awards:</b></p>	<p>Students in teams presented 07 projects as innovation</p> <p><b>02 Prize Winners :</b></p> <ul style="list-style-type: none"> <li>• Project Titled “Cooking Robo” – secured 1<sup>st</sup> Prize</li> <li>• Project titled “Plant Irrigation System and Monitoring in Terrace system – secured 2<sup>nd</sup> prize</li> </ul> <p><b>Details of the projects are :</b></p> <ul style="list-style-type: none"> <li>• Gas Leak Detector</li> <li>• Monkey repellent device</li> <li>• IOT based horticulture for farmers</li> <li>• Ambulance Detection System</li> <li>• IOT based Smart AC Fan Control with Weather and Occupancy Sensors</li> <li>• Smart Irrigation</li> <li>• Automatic Fire Extinguisher</li> <li>• AI Robotic Arm</li> <li>• Medi Assist</li> <li>• Bus Fare Management System</li> </ul>
11	<p><b>Student Publications (other than IV.1)</b></p> <p>-UG: -PG:</p>	<p>UG : 104, PG : 03</p> <p>Details are - Total : 104 (Scopus Journals : 05, Book chapters : 24, Scopus Conferences : 75)</p>
12	<p><b>Monitoring of teaching-learning process</b></p> <ul style="list-style-type: none"> <li>--Mechanism for Assessment of teaching process in classrooms.</li> <li>--Random verification of evaluated answer papers and question paper during the semester.</li> <li>--Innovative teaching methods presented, if any</li> <li>--Verification of course files</li> </ul>	<ul style="list-style-type: none"> <li>• Online Feedback System is maintained for assessment of teaching process in classrooms</li> <li>• Random verification by PAC &amp; HOD</li> <li>• PAC evaluates the question papers in terms of paper setting, outcome based approach etc</li> <li>• Innovative teaching methods like activity based teaching, project based learning, group exercises, flipped classroom, POGIL are implemented as teaching methods.</li> <li>• VRSEC LMS is used for all courses of II/IV, III/IV and IV/IV B.Tech for content upload and assessments</li> <li>• Course files of odd/even semesters are been completed and verified by module coordinators, PC and HOD</li> </ul>

13	Student enrolment in CBCS	Student Enrolment for CBCS :47								
14	EPICS (Engineering projects in community service) Projects: Awards:	Domain wise projects are listed : <table border="1" data-bbox="861 228 1465 369"> <tr> <td>Web development - 06</td> <td>IOT/Networking-04</td> <td>Application development -05</td> <td>Machine Learning-03</td> </tr> <tr> <td>Datamining - 05</td> <td>Image processing-04</td> <td>AI/NLP-05</td> <td></td> </tr> </table>	Web development - 06	IOT/Networking-04	Application development -05	Machine Learning-03	Datamining - 05	Image processing-04	AI/NLP-05	
Web development - 06	IOT/Networking-04	Application development -05	Machine Learning-03							
Datamining - 05	Image processing-04	AI/NLP-05								
15	Activities of students in professional bodies: Awards in co-curricular activities :	<ul style="list-style-type: none"> <li>• ACM - 10 events (ACM-06,ACM-W-04)</li> <li>• CSI Student Chapter Event – 07 events</li> <li>• IEEE-CIS -01</li> </ul>								
16	Training programs/Seminars/workshops organized for students:	Training programs/Seminars/workshops organized for students: 37 ✓ Seminars : 05 ✓ Workshops: 13 ✓ Guest Lectures : 12 ✓ Webinars: 01 ✓ Alumni Lecture Series: 04 ✓ Technical & Non-Technical Events Competitions 02								
17.	Guest lecturers conducted for Students:	12								
18.	MoUs with Industries for Research / Consultancy/ internship / placements, etc.	New MoUs: 03								
19.	Students feedback	Feedback is taken twice in a semester through online system								
20.	Feedback follow-up action	Feedback follow-up action is been implemented by HOD								
21.	Scope for Self-learning: Certificate courses Online courses	Faculty Online courses : 13  Total no of Student Online Certifications : 594								
22.	Cut-off rank(Admission): Cut-off rank Previous year:..... OC: BC: SC: ST: PH: Audited year: ..... OC: BC: SC: ST: PH: Improvement / no change / decline  <i>Note: If there is <u>no improvement</u> it needs to discussed &amp; suitable measures are to be taken up</i>	OC 126, ST-2, SC-3, BC-67, PH-nil Totally = 198 ✓ Improvement / no change / decline  <i>Note: If there is <u>no improvement</u> it needs to discussed &amp; suitable measures are to be taken up</i> <i>Compare with previous year</i>								
23	<b>Range of CGPA&amp;%of students</b> 10-8 CGPA: 7CGPA: 6CGPA: 5CGPA: No.&% age of failures: Success rate as per NBA guidelines:	10-8 CGPA:104 7CGPA: 30 6CGPA: 5 5CGPA: 5 No.&% age of failures: 8, 5.5 Success rate as per NBA guidelines: 94.4								

<b>IV. Research, Consultancy and Extension</b>		
<b>S. No</b>	<b>Criterion</b>	<b>Observations</b>
1.	Faculty publications in journals: (other than III.11) Scopus indexed: SCI / SCIE (Not ESCI): Total: Published : Dept & Highest in the faculty.	<b>Faculty Publications Summary :</b> SCI Indexed Journals-15 Scopus Indexed Journals- 12 Total Published : 27
2.	Publications in conferences: - National(Scopus, SCI& equivalent) - International(Scopus, SCI equivalent) - Total:	Book Chapters-10, Scopus Conferences-08 Total :18
3.	Faculty contribution in: .....books: .....book chapters: (Books/Chapters with ISBN/ISSN only are considered)	Books : 02 Book chapters : 10
4.	Paper Publications& Book chapters:	Total Publications in the Dept : 149(45+104) <ul style="list-style-type: none"> <li>SCI Indexed Journals- 15(15+0)</li> <li>Scopus Indexed Journals ; 17(12+5)</li> <li>Book Chapters-34(10+24)</li> <li>Scopus Conferences-83(8+75)</li> <li>Books – 01</li> </ul>
5.	Government: Funded R&D projects	Government: Funded R&D projects : 01 On Going : 02, Sanctioned : 01, Completed:01 Total Amount : 48,93,520/-  Details are :  Dr M Suneetha, “Positioning, Navigation, and Timing (PNT) technologies”, IIT Tirupati Navavishkar I-Hub Foundation, Rs 4,00,000 (sanctioned) during April 2025  Dr.M.Suneetha and Dr.V.Radhesyam, Developing Efficient Local Scale Impact Evaluation tools using Geospatial System to Assess National Development Mission Outcomes and SDG Goals, National Remote Sensing Centre (NRSC-ISRO), 27,93,520/-, 23-June-2022, 03 Years, (On-going)  Dr.G Kalyani, “Design and experimental validation of a novel AI-powered artificial pancreas”, SERB, funded at a worth of Rs.17,00,000/- Sanctioned on 02-January-

		2024 (AppNo : SUR/2022/003427)
6.	Non- Government: Funded R&D projects / Industry sponsored projects	<p>Non- Government: Funded R&amp;D projects / Industry sponsored projects : 02, Total Amount : 14,25,000/- OnGoing : 03, Completed : 01</p> <p>Details are :</p> <p>Dr.S Suhasini, Dr M Suneetha, M Ramesh, Y kalyan chakravrthy, S Balaji, "Imeds Mobile and Web App Developoment , Avantel, funded at a worth of Rs.11,75,000/- in March 13, 2023-1.5months duration (AppNo :AVL/PUR/SER/2022-23/VIZ0205)</p> <p>Dr.A.Srisaila, "PurpleGene Platform", PRAGMATIQ SYSTEMS PRIVATE LIMITED, Hyderabad – 1,00,000</p> <p>Dr.Y.Sangeetha," Development of an intelligent web platform for managing offset/ digital printing orders", Swapna Graphics, Guntur , 1,00,000</p> <p>Dr.G.JayaLakshmi, "Website development and allied services", Vidyut Vahan Services-50,000</p>
7.	Faculty involved in Consultancy & amount earned	07 Faculty were involved in Consultancy & amount earned Rs.14,25,000/-
8.	Faculty intellectual property rights / Patents:	IPRs : 18
9.	In-house R&D grants & projects and Their outcomes	<p><b>Seed Grant Projects sanctioned in 24-25 : 05</b></p> <p>Sanctioned Seed Grant Projects Details are :</p> <ul style="list-style-type: none"> <li>• Dr.A.Srisaila, K.Madhavi, "Improving Sepsis Diagnosis in ICUs with AI-Driven Models",sanctioned 1,00,000 – June 2025</li> <li>• Dr.M.Gargi, Dr.V.Satya Sahithi, "Reducing Diagnostic Delays: Optimized AI Techniques for early Diabetic Retinopathy Detection, sanctioned 1,00,000 – June 2025</li> <li>• Dr.Y.Sandeep, Dr.S.Jayaprakash, "Real time traffic management using an IOT enabled Intelligent transportation system integrated with ML algorithms sanctioned 2,00,000 – Dec 2024</li> <li>• Dr.M.Ashok kumar, Dr.M.Ramesh," An Integrated Academic career connection</li> </ul>

		<p>platform”, sanctioned 1,10,000, June 2025</p> <ul style="list-style-type: none"> <li>• Dr.V.Satya Sahithi, Dr.M.Gargi,” A Geospatial approach for Urban Flood mapping and identification of flood susceptibility zones in Vijayawada, A.P.sanctioned Rs.1,53,740 in Dec 2024</li> </ul>
10.	New research facilities/laboratory Facilities added	<p><b>Research facilities</b></p> <ul style="list-style-type: none"> <li>✓ <b>R&amp;D incentives</b> for faculty to actively pursue and produce good results in research and development activities</li> <li>✓ <b>Financial support</b> to faculty pursuing outcome based R&amp;D work to promote excellence in research like</li> <li>✓ Incentives to faculty for research projects, paper presentations in Conferences (within and abroad), invited lectures at abroad conferences, Chairing session at abroad conferences and student projects with societal impact and recognition.</li> <li>✓ Travel and other expenditure for faculty to undergo trainings at industry</li> </ul>
11.	MOU's with industries/R&D/Premier Institutes Details of activities:	In addition to the existing 21 MOUs, the department has 03 MOUs newly in CAY 2024-25
12.	Research centers of excellence established: Outcome in research centers:	<p>Department of IT received Research centre recognition from JNTUK for 2023-24 and 2024-25 academic years</p> <p>Outcome :</p> <ul style="list-style-type: none"> <li>• Faculty guiding PhD scholars</li> <li>• Faculty, pursuing PhD</li> <li>• Faculty and students published papers in reputed journals</li> </ul> <p>Faculty are working on R&amp;D/consultancy projects</p>
13	Skill development centers established: outcome:	<ul style="list-style-type: none"> <li>• To conduct workshops for students on current software and hardware , Development Environment</li> <li>• To provide students the Application side which can be useful for students in EPICs/mini/major projects</li> </ul>

		<ul style="list-style-type: none"> <li>Industry specific Competitive Aptitude Trainings can be conducted for students to gain shortcuts in solving the aptitude, verbal and reasoning problems</li> </ul>
14	Incubation centers: - Established with outside Industries : -Status of incubation:	<ul style="list-style-type: none"> <li>Anblicks Ignite Center : Data Science projects handling by students</li> </ul>
15	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	<p>02 Startups. SIMULATED VIRTUAL SOLUTIONS PRIVATE LIMITED, Registration date - 2nd Feb, 2022</p> <p>This startup is about architectural visualization using virtual reality. The students involved are Name – Kranthi Malla, Roll Number - 198W1A1291.</p> <p>02 : InfiStitch Services Private Ltd (started in 2018-19 and is active in 21-22 ) &amp; student entrepreneur has participated to present this startup in Startup Husky Challenge-Global Entrepreneurship Week at Boston, USA</p>

<b>V. Infrastructure and Learning Resources</b>		
<b>S. No</b>	<b>Criterion</b>	<b>Observations</b>
1.	Addition of infrastructural facilities to improve the teaching learning process Classrooms / Laboratories /ICT class rooms / e- class rooms/ Seminar halls / Syndicate rooms /Innovation center:	<ul style="list-style-type: none"> <li>All class rooms and Laboratories are equipped with LCD Projector and Wifi facility</li> <li>Smart Class Room is available for enhanced classroom teaching and remote virtual classroom environment.</li> <li>Smart Android Projector Placed in class room for student Presentations</li> <li>Senses elite Panel 75" is available in Data Engineering Laboratory</li> </ul>
2.	Internet facilities for faculty & Students:	Internet Bandwidth of 1030 Mbps is provided for Faculty & Students
3.	Technical man power support added:	Available technical staff : 04 For each laboratory, one technical staff in-charge is available and responsible for execution of course labs and the respective laboratory maintenance.
4.	Modern/new equipment added in Laboratories:	In addition to existing lab equipment, <ul style="list-style-type: none"> <li>75 Computer systems -40,17,555</li> </ul>

		<ul style="list-style-type: none"> <li>• Apple Lab - LAN Establishment -82,316</li> </ul>
5.	New research facility /Computing facilities/ laboratory added:	<ul style="list-style-type: none"> <li>• PNT Lab Established in Association with IIT Tirupathi for research.</li> <li>• IT R&amp;D Cell HP Z640 Workstation Upgradation at a worth of 95,305/-</li> <li>• R&amp;D Paper Publications at worth pf 1,10,000/-</li> <li>• WiFi in Classrooms at a worth of 2,61,665/-</li> <li>• 37 Computer systems at a worth of 29,59,630/-</li> </ul>
6.	Dept.News letter/magazine:	<p><i>In addition to</i> Department Annual Report, News letters are also being published once in four months regularly to define the department activities</p> <p>Newsletters are placed in department website.</p>
7.	Department library: New additions Text books / References / Journals	Total Number of Titles : 666

<b>VI. Student information, Support and Progression</b>		
<b>S. No</b>	<b>Criterion</b>	<b>Observations</b>
1	Industrial visits	Industrial visits : Nil
2	Internships	Internships : 572 II/IV B Tech in Eduskills : 212 III/IV B Tech in Eduskills : 205 IV/IV B Tech : 144 Data Science M.Tech : 11
3	Dept.student clubs: Activities:	05 student clubs : <ul style="list-style-type: none"> <li>• Codechef : (03 events )</li> <li>• Samskruthi : (07 events)</li> <li>• Google Developer Student club (02 events : ML, Android study)</li> </ul>
4	Details of coaching provided for GATE/GRE/any other competitive exams	GATE/GRE coaching classes : 03 classes per week in 2 semesters beyond the regular class work in the form of CRT C Programming, Advanced Python:3hrs/Week DBMS/ Computer Networks / Software Engineering: 3hrs/Week

6	Students qualified in -GATE -GRE/etc.	
7	Students admitted for Higher studies(No & %):	
8	Total Placements(No & %) in the Dept: 2 - 4 Lakhs (No.) 4 Lakhs above (No.): 5 Lakhs above (No.): Highest salary (No.): Median salary:	Total Placements in the Dept : 112, Percentage: 95.72% Total Eligible students : 117 Total No.of Offers : 212 2 - 4 Lakhs (No.): 68 4 Lakhs above (No.): 144 5 Lakhs above (No.): 110 Highest salary (No.): 16LPA Median salary: 6.5
9	Student prizes: NSS/NCC : -- , Cultural : , Sports : No.of events in NSS : National Level, if any.....	NSS :08 , Cultural & Sports : 28 No.of events in NSS : 08 National Level, if any..... Nil
10	Student Scholarships:	Total : 76. Details are : <ul style="list-style-type: none"> <li>• North &amp; South Foundation(NSF) : 51</li> <li>• Siddhartha Sahaya:24</li> <li>• Google Women Engineers : 01</li> </ul>

<b>VII. Governance, Leadership and Management</b>		
<b>S. No</b>	<b>Criterion</b>	<b>Observations</b>
1	Setting of annual goals by individual faculty for their academic improvement.	<p>Faculty cadre wise annual goals to be achieved by the end of the academic year were given to each faculty with thorough discussion of HOD with each individual faculty.</p> <ul style="list-style-type: none"> <li>• In 24-25, every faculty is given targets by HOD during the beginning of the academic year.</li> <li>• Once in 3 months, department R&amp;D reviews are conducted by HOD</li> <li>• Faculty is monitored individually to verify the targets reached or not.</li> <li>• At the end , the faculty need to submit the level of achievements</li> </ul> <p>Following are the parameters considered in faculty targets :</p> <ul style="list-style-type: none"> <li>• Patent Filing</li> <li>• Consultancy</li> <li>• MoUs</li> <li>• Collaborative labs</li> <li>• Model development</li> <li>• Books published</li> </ul>

		<ul style="list-style-type: none"> <li>• Expert lectures</li> <li>• Interaction with outside world</li> <li>• Student Internship/Placement</li> <li>• R&amp;D etc</li> </ul>
2	Setting of departmental annual goals by HOD for the improvement of dept.	<p>The setting of departmental annual goals by HOD for the improvement of dept is done.</p> <ul style="list-style-type: none"> <li>• From the targets defined for faculty, department annual goals are defined by HOD. Few include the following:</li> </ul> <p style="text-align: center;"><b><u>Faculty</u></b></p> <ul style="list-style-type: none"> <li>• All Ph.D faculty should attain 02 SCI Publications/free Scopus publications</li> <li>• All Ph.D faculty should attain 01 consultancy project worth minimum of Rs.3Lakhs</li> <li>• Each faculty is responsible atleast 01 Student Internship/Placement</li> <li>• Pursuing PhD faculty need to attain 01 free Scopus /SCI publication</li> <li>• All PhD faculty must apply for Funded projects/Seed grant projects and attain at least 01 R&amp;D project</li> <li>• Faculty must involve in attaining MoUs with industries</li> <li>• PhD faculty must conduct at least 01 FDP/FTP/STTP/Conference in a semester</li> <li>• All faculty must organize at least 01 programme in a semester like webinar/guest lecture/ seminars/ workshops for students and faculty in current trends</li> <li>• Faculty trainings/certifications are encouraged</li> <li>• Proctor must reach 100% placement for the proctored students</li> <li>• Improvement in Highest package placements through proctor system</li> <li>• All faculty must attend FDPs/trainings at outside premier institutions/industries.</li> <li>• All faculty must attain academic performance of above 95% in the courses being handled</li> <li>• Faculty patents, startups are encouraged</li> </ul> <p style="text-align: center;"><b><u>Students</u></b></p> <ul style="list-style-type: none"> <li>• Sustain a 100% placement rate</li> <li>• Maintain a minimum 90% attendance in all courses</li> <li>• Completion of at least one mandatory internship during the program</li> <li>• Mandatory participation in atleast 04 technical events inside /outside per semester</li> <li>• Involvement in hackathons, coding challenges, and innovation model development for advanced learners</li> </ul>

		<ul style="list-style-type: none"> <li>Participation and contribution in student club activities</li> <li>Mandatory membership in at least one recognized professional body (target: 6 student chapters).</li> <li>EPICS/Mini/Major projects should lead to publications, patents, or innovative outcomes.</li> <li>Compulsory attendance in workshops, seminars, and guest lectures organized by the department.</li> <li>Students are encouraged to work in student project room for innovation/model development</li> <li>Students are encouraged in startups/entrepreneurships</li> </ul>
3	Teaching staff attended for skill development/ Industry training/any professional development programs	<p>Teaching staff participations towards Skill development/ Industry training : 253</p> <ul style="list-style-type: none"> <li>Summit : 01</li> <li>Workshops: 22</li> <li>Conferences: 101</li> <li>Guest Lecture: 11</li> <li>FDP: 87</li> <li>FTP/ Professional Development Program: 24</li> <li>Webinar : 01</li> <li>Summer / Winter School : 05</li> <li>Industrial Trainings : 01</li> </ul>
4	Non-teaching staff attended For skill development programs	05 Non-Teaching staff had participated in Skill development programs.
5	<p>Financial support received from the Management:</p> <p>Seed Grant for faculty:</p> <p>Incentive for Sponsored projects:</p> <p>Incentive for paper publications:</p> <p>Attending FDPs/ Seminars/etc:</p> <p>Attending overseas seminars:</p> <p>Interaction with R &amp; D personnel:</p> <p>Others:</p>	<p>Financial support received from the Management:</p> <ul style="list-style-type: none"> <li>Seed Grant for faculty</li> <li>Incentive for sponsored projects</li> <li>Incentive for paper publications : more than 60% faculty received in 24-25</li> <li>Attending FDPs/Conferences etc</li> <li>All events conducted in department</li> </ul>
6	<p>Financial support received from the Management:</p> <p>Student Projects:</p> <p>Model developments&amp; exhibition:</p> <p>Student Innovations&amp; exhibition:</p>	<ul style="list-style-type: none"> <li>Financial support received from the Management towards model development and student innovations.</li> </ul>
7	<p>Quality policy &amp; Quality objectives Committees &amp; duties:</p> <p>Cells &amp; duties:</p>	<p>Committees are :</p> <ul style="list-style-type: none"> <li>Program Assessment Committee (PAC)</li> <li>Department Advisory Board (DAB)</li> <li>Project review committee (PRC)</li> <li>Purchasing Committee</li> <li>Antiragging Women Grievance Cell</li> <li>Planning, Development and Maintenance committee</li> </ul>

8	<p>Maintenance</p> <ul style="list-style-type: none"> <li>-General</li> <li>-Laboratory</li> <li>-Others</li> </ul>	<p>General :</p> <ul style="list-style-type: none"> <li>• Physical observation by HOD</li> <li>• Planning, Development and Maintenance committee takes care of ambiance, infrastructure in the budget</li> </ul> <p>Laboratory :</p> <ul style="list-style-type: none"> <li>• Every laboratory has incharge that constitute a faculty and technician</li> <li>• Monitor ambiance and other maintenance issues</li> <li>• Lab incharge is available to monitor the functioning of labs every day.</li> <li>• Student logins are used in labs</li> <li>• Lab complaints book is available to record the student complaints</li> </ul> <p>Others :</p> <ul style="list-style-type: none"> <li>• Day wise attendance is being maintained in CMS</li> <li>• Attendance is being monitored regularly by proctors, class teachers and professor incharges</li> <li>• Classwork is vigilated by the respective faculty</li> <li>• Students punctuality is also monitored</li> </ul>
9	Financial support/leaves for qualification/skillup-gradation:	SAGTE
10.	Risk evaluation/safety measures:	<p>Fire extinguishers at corridors and labs</p> <p>UPS in labs, ACs in labs</p> <p>Covid norms are followed in the department</p>

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as 18/25  
**Dept.IQAC In-charge**  
(Academic Audit Incharge)  
Dr.S.Suhasini, Assoc Prof  
Dept of IT Dept, SAHE

*K.Suvarna Vani* .....  
.....  
**Academic Auditor**  
(Internal Expert)  
Dr k Suvarna Vani, Prof  
Dept of CSE, SAHE

*M.Suneetha* .....  
.....  
**Head of the Dept.**  
(Chair Person)  
Dr M Suneetha, Prof & HOD  
Dept of IT, SAHE

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*T.Ramakrishnudu* .....  
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(External Expert)  
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