|  |  |  |
| --- | --- | --- |
| **CRITERION 5** | **Faculty Information and Contributions** | **200** |

**5. FACULTY INFORMATION AND CONTRIBUTIONS (200)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the Faculty Member | Qualification | | | Association with the institution | Designation | Date on which designated as Professor/Associate professor | Date of joining the institution | Department | Specialization | Academic research | | | Currently associated (Y/N) date of leaving (In case currrently associated is (‘’No’’) | Nature of association( Regular / Contract) |
| Degree  (Highest degree) | University | Year of attaining higher qualification | Research paper publications | Ph.D. Guidance | Faculty receiving Ph.d. during the assesment years |

**Note:** *Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure - II.*

**5.1. Student-Faculty Ratio (SFR) (20)**

(To be calculated at Department Level)

No. of UG Programs in the Department (n): \_\_\_\_1\_\_\_\_\_\_

No. of PG Programs in the Department (m): \_\_\_\_1\_\_\_\_\_\_

No. of Students in UG 2nd Year= u1

No. of Students in UG 3rd Year= u2

No. of Students in UG 4th Year= u3

No. of Students in PG 1st Year= p1

No. of Students in PG 2nd Year= p2

**No. of Students = Sanctioned Intake + Actual admitted lateral entry students**

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 +… +UGn + PG1 + …PGn

F = Total Number of Faculty Members in the Department (excluding first year faculty)

**Student Teacher Ratio (STR) = S / F**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **2023-24** | **2022-23** | **2021-22** |
| u1 | **120+24=144** | **120+24=144** | **120+24=144** |
| u2 | **120+24=144** | **120+24=144** | **120+24=144** |
| u3 | **120+24=144** | **120+24=144** | **120+24=144** |
| UG1 | **432** | **432** | **432** |
| p1 | **12** | **12** | **12** |
| p2 | **12** | **12** | **12** |
| PG1 | **24** | **24** | **24** |
| Total No. of Students in the  Department **(S)** | **456** | **456** | **456** |
| No. of Faculty in the  Department **(F)** | **20** | **26** | **29** |
| Student Faculty Ratio (SFR) | **SFR1=S1/F1**  **=468/20**  **=23.4** | **SFR1=S1/F1**  **=456/26**  **=17.5** | **SFR1=S1/F1**  **=456/29**  **=15.7** |
| Average SFR | **SFR=(SFR1+SFR2+SFR3)/3**  **=23.4+17.5+15.7/3**  **=18.8** | | |

***Table B.5.1:***

***Note:*** Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below:

< = 15 - 20 Marks

**<** = 17 - 18 Marks

**< = 19 - 16 Marks**

< = 21 - 14 Marks

< = 23 - 12 Marks

< = 25 - 10 Marks

> 25.0 - 0 Marks

* Minimum 75% should be Regular/ full time faculty and the remaining shall be Contractual Faculty as per AICTE norms and standards.
* The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Student Faculty Ratio.

**5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:**

|  |  |  |
| --- | --- | --- |
|  | **Total number of regular faculty in**  **the department** | **Total number of contractual**  **faculty in the department** |
| **2023-24** | 24 | 0 |
| **2022-23** | 32 | 0 |
| **2021-22** | 36 | 0 |

***Table B.5.1.1:***

**5.2 Faculty Cadre Proportion (20)**

The reference faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of faculty required to comply with 20:1 Student-teacher ratio based on No. of students **(N=22.8, 22.8,22.8)** as per 5.1

F2: Number of Associate Professors required = 2/9 x Number of faculty required to comply with 20:1 Student-faculty ratio based on No. of students (N) as per 5.1

F3: Number of Assistant Professors required = 6/9 x Number of faculty required to comply with 20:1 Student-faculty ratio based on No. of students (N) as per 5.1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Professors** | | **Associate Professors** | | **Assistant Professors** | |
|  | Required F1 | Available F1 | Required F2 | Available F2 | Required F3 | Available F3 |
| **2023-24** | 2.53 | 1 | 5.06 | 3 | 15.2 | 16 |
| **2022-23** | 2.53 | 1 | 5.06 | 3 | 15.2 | 22 |
| **2021-22** | 2.53 | 3 | 5.06 | 5 | 15.2 | 21 |
| **Average numbers** | **RF1=2.53** | **AF1=1.66** | **RF2=5.06** | **AF2=3.66** | **RF3=15.2** | **AF3=19.66** |

***Table B.5.2:***

Cadre Ratio Marks =

= [0.65+(0.72x0.6) +(1.29x0.4)]x10

= (0.749+0.43+0.51) x 10

= 1.68 x 10

=**16.8**

* If AF1 = AF2= 0 then zero marks
* Maximum marks to be limited if it exceeds 25

Example: Intake = 60 (i.e. total no. of students= 180); Required number of Faculty: 9; RF1= 1, RF2=2 and RF3=6

**Case 1:** AF1/RF1= 1; AF2/RF2 = 1; AF3/RF3 = 1; Cadre proportion marks = (1+0.6+0.4) x 12.5= 25

**Case 2:** AF1/RF1= 1; AF2/RF2 = 3/2; AF3/RF3 = 5/6; Cadre proportion marks = (1+0.9+0.3) x12.5 = limited to 25

**Case 3:** AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=8/6; Cadre proportion marks = (0+0.3+0.53) x12.5 = 10.4

**5.3 Faculty Qualification (20)**

FQ = 2.0 \* [((10X +4Y)/F)] where X is no. of faculty with Ph.D.; Y is no. of regular faculty with M.Tech; F is no. of regular faculty required to comply 1:20 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Years** | **X** | **Y** | **F** | **FQ = 2.0 \* [((10X +4Y)/F)]** |
| **2023-24** | 4 | 16 | 20 | =2.0\*[((10\*4+4\*16)/22.8)]  **= 9.12** |
| **2022-23** | 4 | 21 | 26 | =2.0\*[((10\*4+4\*21)/22.8)]  **= 10.8** |
| **2021-22** | 8 | 21 | 29 | =2.0\*[((10\*8+4\*21)/22.8)]  = **14.38** |
| **Average Assessment** | | | | **=9.12+10.8+14.38/3**  **=11.43** |

***Table B.5.3:***

**5.4. Faculty Retention (10)**

**No. of regular faculty members in 2022-2023 = 2023-2024=**

|  |  |
| --- | --- |
| **Item**  (% of faculty retained during the period of assessment keeping CAYm2 as base year) | Marks |
| >=90% of required Faculty members retained during the period of assessment keeping CAYm2 as base year) | 10 |
| >=75% of required Faculty members retained during tfhe period of assessment keeping CAYm2 as base year) | 08 |
| **>=60% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)** | **06** |
| >=50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year) | 04 |
| <50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year) | 0 |

***Table B.5.4a:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **2023-24** | **2022-23** | **2021-22** |
| **No of Faculty Retained** | 18 | 21 | 29 |
| **Total No. of Required Faculty** | 29 | 29 | 29 |
| **% of Faculty Retained** | 62% | 72.4% | Not Applicable |
| **Faculty Retained** | **67.2(62+72.4)/2** | | |

***Table B.5.4b:***

Average: 67.2

Assessment Marks: 6.00

**5.5. Faculty competencies in correlation to Program Specific Criteria (10)**

**Institutional Marks: 0.00**

**(List the program specific criteria and the competencies (specialization, research publications, course developments etc.,) of faculty to correlate the program specific criteria and competencies.)**

**5.6 Innovations by the Faculty in Teaching and Learning (10) Institution Marks: 10.00**

*Innovations by the Faculty in teaching and learning shall be summarized as per the following description.*

Srinivasa Ramanujan Institute of Technology provides innovative teaching and learning methods to impart knowledge to the students. The purpose of these innovative methods is to improve knowledge, empower students and strengthen them to achieve their goals. The following innovative methods are followed by the faculty to improve the learning process in addition to conventional methods:

* **Development of e-content**: After allotment of subjects to the faculty, a detailed e-content material is prepared by every faculty on all subjects. The prepared e-content material is reviewed by a team of senior faculty members of the department concerned. This e-content material is uploaded in srit website, well in advance, where every student can access and use this study material and is available in the public domain.
* **Video Presentations**: Faculty will prepare video presentations on certain topics or subjects allotted to them. The delivery of the lecture in the classroom will be done with the aid of video presentations which helps the students in clear understanding of the concepts.
* **Collaborative Learning**: The teacher will create an environment that fosters creativity, bringing together multi-talented groups of students who work in close collaboration together for exchanging knowledge, ideas and innovations to flourish.
* **Group Discussions:**The students are allowed to participate in Group Discussions, which let the students to share their views and opinions with other students on a given topic. The teacher will moderate the discussion and this activity helps the students to learn leadership qualities, cooperation skills, communication skills, analytical skills and ability to work in a team.
* **Mini Projects:**Teacher will propose certain Mini Projects and students will execute as a team, which will help them in enhancing their subject knowledge.
* **Technical quiz:** The faculty concerned will conduct a technical quiz on the topics which have been covered at the end of every unit of the syllabus. Conducting this kind of technical quiz will provide the students better understanding on the subject.
* **Demonstrations:**Students are taken to the laboratory and are demonstrated the working of the equipment and their characteristics. The demonstration helps the students to connect hard time theories and to understand application of theories. The demonstration models are used by the faculty concerned to make their explanation more effective in certain subjects.
* **Virtual Labs:** In every laboratory course, the student is doing at least one or two experiments using virtual labs. This will facilitate the student better learning which will promote the development of methodological skills and competencies, investigation through experiments, team work and communication among students.
* **Industrial visits:** Students are taken for industrial visits to familiarize them with industrial practices and have thorough understanding of engineering principles and their practical application. It also provides the students an insight regarding internal working of organizations.
* **Use of NPTEL lectures:** To inculcate lifelong learning among students the teacher will use online NPTEL lectures and material from other reputed universities to improve their knowledge.

**5.7. Faculty as Participants in Faculty Development / Training Activities/STTPs (15)**

* A faculty maximum five points for participation
* Participation in 2 to 5 days faculty/faculty development program : 3
* Participation >5 days faculty/faculty development program : 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SNO** | **Name of the Faculty** | **Max. 5 per Faculty** | | |
| **2023-24** | **2022-23** | **2021-22** |
|  | Dr. G. K. Venkata Narasimha Reddy |  | 0 | 5 |
|  | Dr.B. Lakshmi Narayana Reddy |  | 0 | 5 |
|  | Dr.M. Ranjit Reddy |  | 0 | 3 |
|  | Dr.T. Hitendra Sarma |  | 0 | 0 |
|  | Dr.C. Sasikala |  | 5 | 5 |
|  | Dr.P. Chitralingappa |  | 0 | 5 |
|  | Dr. B. Hari Chandana |  | 5 | 5 |
|  | Mr.M. Narasimhulu |  | 5 | 5 |
|  | Dr.T.Venkata Naga Jayudu |  | 5 | 3 |
|  | Mr.L.Suman |  | 5 | 5 |
|  | Dr.G. Hemanth Kumar Yadav |  | 0 | 5 |
|  | Mr.P. Veera Prakash |  | 0 | 5 |
|  | Mr.G. Chinna Pullaiah |  | 3 | 5 |
|  | Mrs.S.L. Sailaja |  | 0 | 0 |
|  | Mr.C. Sudheer Kumar |  | 5 | 5 |
|  | Mrs.M.Madhavi |  | 0 | 0 |
|  | Mrs.G.Shabana |  | 0 | 0 |
|  | Mrs.M. Soumya |  | 5 | 5 |
|  | Mr.B. Sreedhar |  | 0 | 5 |
|  | Mrs.T. Kavitha |  | 0 | 3 |
|  | Mr. A. Bala Ankanna |  | 0 | 0 |
|  | Mr. B. Nanda Kiran Reddy |  | 0 | 0 |
|  | Mrs.K.Hemalatha |  | 0 | 0 |
|  | Mr.G.Siva Krishna |  | 0 | 0 |
|  | Mr.A. Erriswami Reddy |  | 0 | 0 |
|  | Mrs.K. Sudha Kumari |  | 0 | 0 |
|  | Mr.T. Muralikrishna |  | 0 | 5 |
|  | Mr. K. Kondanna |  | 0 | 5 |
|  | Ms. K. Sruthi |  | 0 | 3 |
|  | Mrs.P. Rohini |  | 5 | 3 |
|  | Mr. K. Venkatesh |  | 0 | 5 |
|  | Mrs. V. Sujatha |  | 0 | 3 |
|  | Mr.Y. Mahanandi |  | 0 | 3 |
|  | Mr.K. Lokeshnath |  | 0 | 5 |
|  | Mrs.G.Nagaleela |  | 5 | 5 |
|  | Mrs.S.Sunitha |  | 0 | 3 |
|  | Mrs.V.Kamaskhamma |  | 0 | 3 |
|  | Mr.Shaik Nazeer |  | 0 | 3 |
|  | Mrs.N.Ushasree |  | 5 | 0 |
|  | Mrs.k.Umadevi |  | 5 | 0 |
|  | Ms.D.Jeevana Jyothi |  | 5 | 0 |
|  | Mr.C.Lakshminatha reddy |  | 5 | 0 |
|  | Mr.C.Nagesh |  | 5 | 0 |
|  | Mr.S.M.P .Qubeb |  | 5 | 0 |
|  | Mrs.G.Sudha Gowd |  | 5 | 0 |
|  | Mr.P.Shahjahan |  | 5 | 0 |
|  | Mr.P.Praneel kumar |  | 0 | 0 |
|  | Ms.G.Lokeswari |  | 5 | 0 |
|  | Mr.M.D.Rafi |  | 0 | 0 |
|  | Mr.D.Lakshminaraya reddy |  | 0 | 0 |
|  | Mr.P.V.Jagadeswar Prasad |  | 0 | 0 |
| **SUM** | |  | **93** | **120** |
| **RF=no of faculty required to comply**  **With 20:1 student-faculty ratio as per 5.1** | | 20 | 26 | 29 |
| **Assessment = 3\*(sum/0.5 RF)**  **(marks limited to 15)** | | 3\*(-/10)  **-** | 3\*(93/13)  **21** | 3\*(120/14)  **25** |
| **Average Assessment over 3 years(marks limited to 15)= 20.53** | | | | |

***Table B.5.6:***

**5.8 Research and Development (75)**

**5.8.1 Academic Research (20)**

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

• Number of quality publications in refereed/ SCI Journals, citations, Books/ Book Chapters etc.(15)

• Ph.D. guided / Ph.D. awarded during the assessment period while working in the institute(5)

All relevant details shall be mentioned.

The faculty of Institute participate actively in research leading to various paper publications in good number of journals in view of this the following are the various publications done by the faculty in various Journals and Conferences.

**The following table indicates the detail information about the total number of papers published by the faculty.**

**5.8.1.1. Research/Book publications(15)**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Academic Year** | **Number of Publications** |
| 1 | 2023-24 | 09 |
| 2 | 2022-23 | 33 |
| 3 | 2021-22 | 06 |

***Table B.5.8.1.1a: Number of publications***

**2023-24**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **Name of  Faculty** | **Title of Publication** | **Journal / Conference**  **- Details of the Journal in which paper has been published** |
|  | Dr. T. Venkata Naga Jayudu | Novel Frame Work for Blockchain Based Voting application Using Ethereum Virtual Machine | International Journal on Recent and Innovation Trends in Computing and Communication |
| Study and Analysis of Impact of Mobility on the Performance of Ad-Hoc Wireless Networks | TELEMATIQUE |
| 2. | Dr B .Hari chandana | Monitoring and Sensing of Real‑Time Data with Deep Learning Through Micro‑ and Macro‑analysis in Hardware Support Packages | SN Computer Science |
| Introduction of Virtual Environment with Personalized Content Recommendation for Realistic Avatar Creation in Online Platform using Machine Learning | Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS 2023) |
|  |  | Transforming breast cancer detection and prevention with deep learning algorithms | International conference on multidisciplinary innovative research & development 2023 |
| Machine learning for congestion control in computer networks: predictive modeling and proactive avoidance | International conference on multidisciplinary innovative research & development 2023 |
| Improving Video Reconstruction Quality Using Multi-Dimensional Reference Frame Multi-Hypothesis Prediction in Compressed Sensing | International Conference on Research in Humanities and Social Sciences- |
| Unleashing the Potential of Machine Learning for Psoriasis: Advancing Detection, Prediction, and Prevention Strategies | International Conference on Research in Humanities and Social Sciences- |
| 3. | C.Nagesh | Leveraging Machine Learning based Ensemble Time Series Prediction Model for Rainfall Using SVM, KNN and Advanced ARIMA+ E-GARCH | International Journal on Recent and Innovation Trends in Computing and Communication |

***Table B.5.8.1.1b: Publications in the academic year 2023-24***

**2022-23**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO.** | **Name of  Faculty** | **Title of Publication** | **Journal / Conference**  **- Details of the Journal in which paper has been published** |
|  | Dr.M.Ranjitreddy | Mdeling the relationship between forward osmosis process parameters and permeate flux | Separation and Purification Technology |
| Advanced measurement infrastructures for time-sensitive applications using ACP architecture | Measurement: Sensors |
|  | Dr. B. Harichandana | Trending and Innovative Mechanisms for Agriculture: From the perspective of global requirements | Journal of Xidian University |
| An Employing of Sophisticated and Untampered Visual Cryptography to Protect Copyrights | GIS SCIENCE JOURNAL |
| The Effecting Factors of Cyber Security Practices and Cyber attack Damages:From the Perspective of Indian Small Enterprises | POSITIF JOURNAL |
|  |  | An Integrated and Constructive Approach to Firmware Security in the Internet of Things | GRADIVA REVIEW JOURNAL |
| Measuring Privacy on Online Social Networks based on User Behavior | POSITIF JOURNAL |
| Flexuous Based Ebullient and Exuberant Edge Computing for Futuristic Scenario in the View of Visions and Challenges | International conference on Emerging Trends in Science, Technology and Mathematics-2023 |
| Emerging and Efficiency Based Artificial Intelligence Tools Employing in the Health Care | International conference on Emerging Trends in Science, Technology and Mathematics-2023 |
| Simulation Of Emerging 5g/6g Networks Employing Machine Learning | Humanities, and Social Science Studies. |
| Network Security for Automotive Ethernet with High-Efficiency Encryption and Authentication | Advancement in Management, Engineering & Technology (ICAMET-2023 |
|  |  | Geofencing and False Data Blocking in Context-Aware Architecture for Probabilistic Voting Based Filtering Scheme of WSN’ | National Conference Recent Advancements in Communication, Electronics and Signal |
| 6G Wireless Systems: A Vision, Trends, Technologies and Open Research Issues | KIT-Coimbatore in Association with CIHAN University-DUHOK-IRAQ |
| Network Security for Automotive Ethernet with High-Efficiency Encryption and Authentication | International Journal of Engineering Technology and Management Sciences |
| FACULTY RECRUITMENT PLATFORM | Journal of Emerging Technologies and Innovative Research |
| Autism Spectrum Disorder Prediction | International Conference on Emerging Trends in Engineering and Technology [ICETET] - 2023 |
| Lung Disorders Detection Employing Exhaled Breath Examination based on the Internet of Medical Things (IoMT) | International Conference on Emerging Trends in Engineering and Technology [ICETET] - 2023 |
|  | The Impeccable Segmentation and Composed Classification Techniques for Satellite Images by Deep Learning Algorithms | International Conference on Emerging Trends in Engineering and Technology [ICETET] - 2023 |
|  | Dr.C.Sasikala | A Secured data sharing framework for dynamic groups using an attribute based cryptography in public cloud: agri cloud Machine Learning Techniques | (2022) International Journal of Electronic Security and Digital Forensics, |
| Designing of Car Rental Web Application using PEGA Tool | International Conference on Emerging Trends in Engineering and Technology [ICETET] - 2023 |
|  | Dr. T Venkata Naga Jayudu | IOT BASED ANTI-THEFT SECURITY SYSTEM | JETIR |
| A Novel Machine Learning Approach for Person Identification and Validation Using Digital Forensics Method | International Conference on Sustainable Computing and Smart Systems (ICSCSS 2023) |
| Detecting Truthfulness of Packet dropping Attacks using Public Auditing System in Wireless Ad hoc Networks | International Journal of Research (IJR), ISSN: 2348-6848 |
| 5 | Mr. P. Veera Prakash | Impact and Analysis of Disease Spread in Paddy Crops using Environmental Factors with the Support  of X-Step Algorithm | International Journal of Advanced Computer Science and Applications |
| 6 | Mr C .Nagesh | Effective abd Safe Biometric -based Cloud Service Acess Mechanism Design | International Journal of Techno-Engineering(IJTE) |
| Time-Series Forecasting of Rainfall Using Deep Learning and | International Journal of Management, Technology And Engineering |
| A Framework for Design and Development of Message sharing using Open-Source Software | IEEE XPLORE(ICSCDS-2023) |
| Fast and Accurate Supervised Machine Learning Strategy for Sales Prediction Using Real Time Datasets | ICETT2023 organised by JES on 8th and 9th Feb-2023 |
| 7 | Mrs.M. Soumya | Predicting the Mode of Child Birth | JETIR |
| Leaf Disease Identification using Machine Learning | JETIR |
| 8 | Mr. P.Shajahan | A Novel Machine Learning Framework for Tracing | International Journal on Recent and Innovation Trends in Computing and Communication |
| 9 | Mrs.G.Nagaleela | Breast Cancer Detection using Deep Learning | JES |
| 10 | LOKESWARI.G | Integrating Unsupervised Techniques with Supervised Techniques for CCF Detection | IJCRT |

***Table B.5.8.1.1c: Publications in the academic year 2022-23***

**2021-22**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **Name of  Faculty** | **Title of Publication** | **Journal / Conference**  **- Details of the Journal in which paper has been published** |
| **1** | Dr.C.Sasikala | Implementation Of Hybrid Machine Learning Technique For Intrusion Detection System In Cloud Computing | International Journal of Early Childhood Special Education |
| 2 | Dr.M.Ranjitreddy | Knowledge extraction of sonophotocatalytic treatment for acid blue 113 dye removal by artificial neural networks | Environmental Research |
| 3 | Dr.B.Harichandana | Speech-Based Virtual Assistant System For Visually Impaired People | International Journal of Mechanical Engineering |
| House Price Prediction | The International journal of analytical and experimental modal analysis |
|  |  | Face Mask Detection Using Deep Learning | The International journal of analytical and experimental modal analysis |
| 4 | Mr. T . Murali Krishna | Comparison of Proposed Neuro Evolution Algorithm with various Classifier algorithm on Software Defect Prediction | Turkish Journal of Physiotherapy and Rehabilitation |

***Table B.5.8.1.1d: Publications in the academic year 2021-2022***

**5.7.8.1.2 Ph. D Guided/Awarded:(5)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Academic Year** | **Faculty Name** | **Title of the Thesis** | **University** |
| 1 |  |  |  |  |

***Table B.5.8.1.2a: Ph. D Awarded List***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SNO.** | **Name of Faculty guiding Students** | **Name of candidate pursuing Ph.d** | **Year of Completion** | **Title of Thesis** | **Co-guides (if any)** | **University** |
| 1 | Dr.T.HitendraSarma | O.Subhashchandergoud | Ongoing | Expecation&Maximisation of prediction utilizing frequency patterns and non corelationcomparision methods on a data set | Prof. C.Shobabindu | Jawaharlal Nehru Technological University, Anantapur |
| MuraliKanth | Ongoing | MVD Classifier for Share market Prediction Achieving Efficiency and fidelity | Prof.  C.Shobabindu | Jawaharlal Nehru Technological University, Anantapur |
| D.D.Suribabu | Ongoing | some improvements over k-means for clustering the data | Prof. C.Shobabindu | Jawaharlal Nehru Technological University, Anantapur |

***Table B.5.8.1.2b: Ph. D Guidance by Faculty***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Faculty Name** | **Title of the Thesis** | **Supervisor/Guide** | **University** |
| 1 | Mr. P. Veera Prakash | Image Processing | Dr.M. Sri Venkatesh | GITAM University, Vishakhapatnam |
| 2 | M Narasimhulu | Increasing bandwidth utilization in IEEE 802.16 Networks | Prof. P. Chenna Reddy | JNTUH Anantapur |
| 3 | Mr. L. Suman | Privacy and Data Security | Dr.S.VenkataLaksnmi | GITAM University, Vishakhapatnam |
| 4 | Mr. G. ChinnaPullaiah | Artificial Intelligence & Machine Learning | Dr. Kishore | K.L. University, Vijayawada |
| 5 | Mr. C. Sudheer Kumar | Artificial Intelligence & Machine Learning | Dr.A.AnandaRao | JNTUA Anantapur |
| 6 | Mrs. M. Soumya | Artificial Intelligence & Machine Learning | Dr.K.Venkataraju | K.L. University, Vijayawada |
| 7 | Mr.Praneel Kumar | Image Processing Techniques for Telemedicine and smart health care systems | Dr.K.Madhavi | JNTUA Anantapur |
| 8 | Mr.C.Lakshminatha Reddy | Cloud Security | Dr.K.Malathi | Saveetha University ,Chennai ,Tamilnadu |
| 9 | Mr.C.Nagesh | A Study of Spatiotemporal data analysis using Data Mining and Machine Learning Techniques | Dr .Manoj Kumar | S.V.University,Tirupathi |

***Table B.5.8.1.2c: Ph. D Pursuing Faculty***

**5.8.2 Sponsored Research (20)**

Funded research from outside:

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding Amount (Cumulative during CAYm1, CAYm2 and CAYm3):

Amount > 50 Lakh – 20 Marks,

Amount > 40 and < 50 Lakh – 15 Marks,

Amount > 30 and < 40 Lakh – 10 Marks,

Amount > 15 and < 30 Lakh – 5 Marks,

Amount < 15 Lakh – 0 Marks

**2022-23:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Title | Duration | Funding Agency | Amount (Rs.) |
| ------ | ------ | ------ | 0.00 |
| ------ | ------ | ------ | Total Amount(X): 0.00 |

**2022-21:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Title | Duration | Funding Agency | Amount (Rs.) |
| ------ | ------ | ------ | 0.00 |
| ------ | ------ | ------ | Total Amount(X): 0.00 |

**2020-21:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Title | Duration | Funding Agency | Amount (Rs.) |
| ------ | ------ | ------ | 0.00 |
| ------ | ------ | ------ | Total Amount(Y): 0.00 |

**Cumulative Amount (X + Y + Z) = 0**

**5.8.3 Development Activities (15)**

**Provide details:**

• Product Development

• Research laboratories

• Instructional materials

• Working models/charts/monograms etc.

The Department regularly encourages the students to develop various working models which are innovative in nature thus bringing out the technological talents of the students.

**5.8.3a. Product Development:**

|  |  |  |
| --- | --- | --- |
| **SNO.** | **Product** | **Faculty Name** |
| 1 | Smart Anantha | G. ChinnaPullaiah |
| 2 | SRIT e-wallet | Dr. T. HitendraSarma |
| 3 | Online Exam | P. Praneel Kumar |
| 4 | Blood Bank | Dr. G.K.V.Narasimha Reddy |
| 5 | Leave Management | P. Veera Prakash |
| 6 | Text Expander | C. Sudheer Kumar |
| 7 | Student feedback | M. Ranjith Reddy |

***Table B.5.8.3a: Product Development Details***

**5.8.3b. Research Laboratories:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Research Lab** | **Faculty Name** |
| 1 | Machine learning lab | Dr.T.Hitendrasarma |
| 2 | Data communication & security lab | Prof. B. LakshmiNarayana Reddy,  Prof. G.K.VenkataNarasimha Reddy |

***Table B.5.8.3b: Research Laboratories details***

**5.8.3c. Instruction Materials:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Class** | **Link** |
| 1 | II B. Tech I Sem | https://sites.google.com/srit.ac.in/sritcs/ii-btechr15/i-sem |
| 2 | II B. Tech II  Sem | https://sites.google.com/srit.ac.in/sritcs/ii-btechr15/ii-sem |
| 3 | III B. Tech I Sem | https://sites.google.com/srit.ac.in/sritcs/iii-btechr15/i-sem |
| 4 | III B. Tech II  Sem | https://sites.google.com/srit.ac.in/sritcs/iii-btechr15/ii-sem |
| 5 | IV B. Tech I Sem | https://sites.google.com/srit.ac.in/sritcs/iv-b-tech/i-sem-r13 |
| 6 | IV B. Tech II  Sem | [https://sites.google.com/srit.ac.in/sritcs/iv-b-tech/ii-sem-r13](https://sites.google.com/srit.ac.in/sritece/iv-b-tech/ii-sem-r13) |

***Table B.5.8.3c: Developed Instruction Material Portal links***

**5.8.3d. Instruction Materials for Laboratories**

|  |  |  |
| --- | --- | --- |
| **SNO** | **Name of the Laboratory** | **Faculty Name** |
| 1 | Database Management Systems Laboratory | Mr. P. Veera Prakash |
| 2 | Object Oriented Analysis and Design & Software Testing Laboratory | Ms. C.Rekha |
| 3 | Operating Systems Laboratory | Dr. G. K. VenkataNarasimha Reddy |
| 4 | Computer Networks & Network Security Lab | Mr. Y. Ramesh |
| 5 | Mobile Application development Lab | Mrs. P. Shabana |
| 6 | Java Programming Laboratory | Mr. K.Varun Kumar Reddy |
| 7 | Web and Internet Technologies Laboratory | Mr. G. Hemath Kumar Yadav |
| 8 | Data Warehousing & Mining Laboratory | Mrs. S. L. Sailaja |
| 9 | Data Structures Lab | Dr. B. Lakshmi Narayana Reddy |
| 10 | IT Workshop | Mr. C. Sudheer Kumar |
| 11 | Compiler Design and Assembly Language Programming Lab | Mr. L. Suman, Mr. D. Maruthi Kumar |
| 12 | Computer Programming Lab | Mr. G. ChinnaPullaiah |
| 13 | Software Testing & CASE Tools Lab | Mr. M. Siva Sankar |
| 14 | Web Technologies & Data Mining Lab | Mrs. P.Shabana |

***Table B.5.7.3d: Instruction Materials for Laboratory Details***

**5.8.3e. Working Models/Charts/Monograms:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO.** | **Description** | **Type(Working Models/Charts/monograms)** | **Faculty Name** |
| 1 | Map Reduce for Beginners | Monograph | P.Praneelkumar,  S.L.Sailaja,  C.Sudheer Kumar. |
| 2 | Improvements to nearest neighbouring classifier:Pattern synthesis,compact data representation & other schems | Monograph | Dr.T.Hitendrasarma |
| 3 | Android versions | Chart | P.Manjeera |
| 4 | Top 10 Anti-virus | Chart | P.Veera Prakash |
| 5 | FLAT grammars | Chart | S.L.Sailaja |
| 6 | Automata Grammar Genarations | Chart | S.L.Sailaja |
| 7 | Model for Testing | Chart | M.Sivashankar |
| 8 | Mapping functions | Chart | M.Narasimhulu |
| 9 | Basic building blocks of UML | Chart | C.Rekha |
| 10 | Diagrams of UML | Chart | T.Kavitha |
| 11 | Smart Anantha | working model | G.ChinnaPullaiah |
| 12 | SRIT e-wallet | working model | T.HitendraSarma |
| 13 | Online Exam | working model | P.Praneel Kumar |
| 14 | Blood Bank | working model | G.K.V.Narasimha Reddy |
| 15 | Leave Management | working model | P.Veera Prakash |
| 16 | Text Expander | working model | C.Sudheer Kumar |
| 17 | Student feedback | working model | M.Ranjith Reddy |

***Table B.5.7.3e: Working Models/Charts/Monograms***

**5.8.4 Consultancy (from industry) (20)**

(Provide a list with Project Title, Funding Agency, Amount and Duration) Funding amount (Cumulative during assessment years)

**2022-23:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Title | Duration | Funding Agency | Amount (Rs.) |
| ------ | ------ | ------ | 0.00 |
| ------ | ------ | ------ | ------ |

**2021–22:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Title | Duration | Funding Agency | Amount (Rs.) |
| ------ | ------ | ------ | 0.00 |
| ------ | ------ | ------ | ------ |

**2020–21:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Title | Duration | Funding Agency | Amount (Rs.) |
| ------ | ------ | ------ | 0.00 |
| ------ | ------ | ------ | ------ |

|  |
| --- |
|  |

**5.9 Faculty Performance Appraisal and Development System (FPADS)(10)**

Faculty Performance Appraisal and Development System is developed to improve the performance of the faculty members in Teaching, Learning And Evaluation Related Activities, Profession Related Contribution & Research And Related Contributions.

**Faculty Performance Appraisal System:**The performance appraisal of the faculty is evaluated based on the academic performance indicators (APIs) at the end of every academic year.  The performance is evaluated by every faculty for 100 points as given below.

* Teaching, Learning And Evaluation Related Activities (65 Points).
* Additional Teaching Work Load (5 Points)
* Course File & Material/Lab Manual Completion (20 Points)
* Student Feedback (20 Points)
* Results (20 Points)
* PROFESSION – RELATED CONTRIBUTION**(**20 Points**)**
* Additional Responsibilities (5 Points)
* Memberships (5 Points)
* Workshops/FDPs/Conferences Attended as a Participant or Resource person/Year (10 Points)
* RESEARCH AND RELATED CONTRIBUTIONS**(**15 Points**)**
* Publications/Reviewer (10 Points)
* Funded Projects (Ongoing/Completed) (5 Points)

**Faculty Development System:**Every staff member should get the minimum of 60 points of API score. In case if any staff member getting a lower API score depending on strengths & weaknesses, for his/her development the following suggestions are made and reviewed after every year.

* To adopt better teaching methodologies to improve the academic performance of the students.
* To attend faculty development programs to update their knowledge.
* To attend conferences & research oriented programs to his/her improve research activities.
* To become a member of professional bodies.

**5.10. Visiting/Adjunct Faculty/Emeritus Faculty etc. (10)**

The following are the industry experts who have visited the college and delivered appropriate courses. The details are as shown in the Table B.5.9.1:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SNO** | **Academic Year** | **Details of Visiting/Adjunct Faculty** | **Number of hours handling** | **Class** | **Subject** |
| 1 | 2023-24 | M. Kishore Kumar,  Project manager,  Cognizant. | 50 | II B. Tech I Sem | OOPS through Java |
| 2 | 2022-23 | P Pavan Kumar,  ,Project Manager  TCS | 50 | IV B.Tech I Sem | Android Programming |
| 3 | 2021-20 | P. Viswanath,  Professor,  IIIT, Sri City,  Chittoor. | 50 | III B.Tech I  Sem | Data Mining &  Ware Housing |

***Table B.5.10.1:* *Details of Visiting/Adjunct Faculty***