|  |  |  |
| --- | --- | --- |
| **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** | | |
| **2022-23** | **2021-22** | **2020-21** |
| 1 |  | 5 | 5 | 5 |
| 2 |  | 5 | 3 | 3 |
| 3 |  | 0 | 0 | 3 |
| 4 |  | 5 | 5 | 3 |
| 5 |  | 0 | 5 | 0 |
| 6 |  | 5 | 5 | 3 |
| 7 |  | 5 | 5 | 3 |
| 8 |  | 5 | 0 | 0 |
| 9 |  | 5 | 5 | 5 |
| 10 |  | 0 | 5 | 5 |
| 11 |  | 5 | 5 | 5 |
| 12 |  | 3 | 3 | 5 |
| 13 |  | 5 | 5 | 5 |
| 14 |  | 5 | 3 | 5 |
| 15 |  | 3 | 5 | 5 |
| 16 |  | 5 | 5 | 0 |
| 17 |  | 0 | 5 | 0 |
| 18 |  | 5 | 5 | 5 |
| 19 |  | 5 | 5 | 5 |
| 20 |  | 0 | 5 | 5 |
| 21 |  | 0 | 5 | 0 |
| 22 |  | 0 | 5 | 5 |
| 23 |  | 3 | 5 | 5 |
| 24 |  | 5 | 5 | 5 |
| 25 |  | 5 | 0 | 0 |
|  |  |  |  |  |
| **SUM** | | **84** | **104** | **85** |
| **RF=no of faculty required to comply**  **With 20:1 student-faculty ratio as per 5.1** | | 26 | 26 | 28 |
| **Assessment = 3\*(sum/0.5 RF)**  **(marks limited to 15)** | | 3\*(84/13)  **19.38** | 3\*(104/13)  **24** | 3\*(85/14)  **18.21** |
| **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 | 13 |
| 2 | 2022-23 | 12 |
| 3 | 2021-22 | 17 |

***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. B.Lakshmi Narayana Reddy | Permutation Dependent Symmetric Key Cipher | International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC) |
| Fibonacci Series Based Cryptography | International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC) |
| Inter Image Element Loss Less Image Compression with Delimiter and Folding | International Conference on Power, Control, Signals & Instrumentation Engineering - (ICPCSI - 2017) |
|  | DrT.HitendraSarma | Improved k-means for Big Data clustering | IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) |
| Consistent and Composite Key Cryptosystem for secure Data Storage and Access in Cloud | IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) |
|  | Dr. G. K. VenkataNarasimha Reddy | Permutation Dependent Symmetric Key Cipher | International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC) |
| Fibonacci Series Based Cryptography | International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC) |
|  | G. Hemanthkumaryadav | A Survey on SLA Based Resource Allocation Strategies in Cloud Computing Environment | International Conference on Electrical, Electronics,Computers,Communication,Mechanical& Computing (EECCMC-2018) |
|  | P. Veeraprakash | Permutation Dependent Symmetric Key Cipher | International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC) |
| Fibonacci Series Based Cryptography | International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC) |
| 6. | P. Praneel Kumar | Inter Image Element Loss Less Image Compression with Delimiter and Folding | International Conference on Power, Control, Signals & Instrumentation Engineering - (ICPCSI - 2017) |

***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 B.Lakshmi Narayana Reddy | Loss Less Color Image Compression Using Intra Pixel Redundancy With Folding | International Conference on Smart Cities(ICSC'16) |
|  | Dr G. K. VenkataNarasimha Reddy | A Data Allocation Stratagy for Dyanamic Groups in Cloud Based On Protected Anti Collision | International Journal of Reasearch,  https://edupediapublications.org/journals/index.php/IJR/article/view/5286/5088 |
|  | Dr T.HitendraSarma | Speeding-up the prototype based kernel k-means clustering method for large data sets | The International Joint Conference on Neural Networks |
|  | K. Varun Kumar Reddy | Improving URL Analysis Model for Focused Crawler | Improving URL Analysis Model for Focused Crawler ISSN: 2277 128X Under IJARCSSE |
| A Dual Encryption is providing a Better Security on the Public Cloud Security Mechanism | A Dual Encryption is providing a Better Security on the Public Cloud Security Mechanism ISSN(Online) : 2320-9801, ISSN(Print) : 2320-9798 Under IJIRCCE, DOI : 10.15680/IJIRCCE. |
| An Analytical Study and Implementation of Multi-Path File Sharing On Distributed Network | An Analytical Study and Implementation of Multi-Path File Sharing On Distributed Network ISSN(Online) : 2319-8753, ISSN(Print) : 2347-6710 Under IJIRSET, DOI : 10.15680/IJIRSET |
| 5 | T.Venkata Nagajayudu | Detecting Truthfulness of Packet dropping Attacks using Public Auditing System in Wireless Ad hoc Networks | International Journal of Research (IJR), ISSN: 2348-6848 |
| 6 | S.L. Sailaja | Confrontation and Oppurtunities of Big data-Survey | International Conference on Big Data Analytics and Computational Intelligence |

***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. T HitendraSarma | Speeding-up the prototype based kernel k-means clustering method for large data sets | The International Joint Conference on Neural Networks, July 2016. |
| 2 | P Praneel Kumar | A Novel approach for Broken character Recognition on vehicle license plates using SVMS | International Journal of Innovative Research in  Computer and Communication Engineering. ISSN:2320-9801,Aug-2015. |
| A Novel Technique for Edge Detection using Gabor Transform and K-Means with FCM Algorihtms | 2nd International Conference on Emerging Trends in Electrical, Communication and Information Technologies - (ICECIT-2015),Dec-2015. |
| 3 | DrB.Lakshmi Narayana Reddy | Lossless Grayscale Image Compression Using Intra Pixel Redundancy | International Journal of Applied Engineering Research, ISSN 0973-4562 |
| 4 | Dr GKVN Reddy | Data Retrieval for Decentralized Tolerant Military Networks | International Journal of Reasearch  <https://edupediapublications.org/journals/IJR/article/view/2746/2633> |
| Public Auditing and privacy preserving data sharing in the cloud | International Journal of Reasearch  https://edupediapublications.org/journals/IJR/article/view/2748/2635 |
| 5 | G Hemanth Kumar Yadav | Intrusion Detection System with Traffic Analysis in Mobile Adhoc Networks | National Conference on NCRICN 2015 |
| 6 | P. Shabana | Secure Data Privacy Through Linear Programming In Cloud Computing | PEZZOTTAITE International journal of entrepreneurship and business environment ISSN 2319-9016 Volume 4 Number 2 (2015), pp. 1421-1424. |
| 7 | M.Soumya | Energy Efficient Secure Aggregation Technique in WIRELESS Sensor Network | National Conference on Recent Innovations in Computer Networks |
| 8 | T. VenkataNagajayudu | Secure Snapshot And Continuous Location Privacy for Location Based Systems | International Journal of Innovative Technology and Research (IJITR), ISSN: 2320-5547 |
| A Routing policy for Minimizing Distortion for Video Traffic in Wireless Multihop Networks | International Journal of Innovative Technology and Research (IJITR), ISSN: 2320-5547 |
| Minimizing the Test Packet Failures by Applying Threshold on Test Packet Generation in Debugging and Network Testing | International Journal of Computer Techniques ISSN :2394-2231 |
| 9 | P. VeeraPrakash | A Customized Framework for Improving the Quality of Web Search | International Journal of Advanced Ressearch in Computer Science and Software Engineering -ISSN:2277128X |

***Table B.5.8.1.1d: Publications in the academic year 2020-21***

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Academic Year** | **Faculty Name** | **Title of the Thesis** | **University** |
| 1 | 2015-16 | Dr. B.Lakshmi Narayana Reddy | Intra-pixel & delimiter based multi-dimensional  compressions for images | Yogi vemana,  kadapa. |

***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 | M Rajith Reddy | Traffic management at signalized intersection using machine learning techniques. | Prof. K.G.Srinivasan | JNTUA Anantapur |
| 2 | M Narasimhulu | Increasing bandwidth utilization in IEEE 802.16 Networks | Prof. P. Chenna Reddy | JNTUA Anantapur |
| 3 | M MalliKarjuna |  |  | KLU Univeristy |
| 4 | S L Sailaja |  | Dr. P. Rajesh | KLU Univeristy |
| 5 | G.Hemanth Kumar Yadav | Design of Service Level Agreement based resource allocation strategies on cloud computing framework | Dr. K. Madhavi | JNTUA Anantapur |
| 6 | T.Venkata Naga Jayudu | Energy efficient routing for event-triggered vicccdeo streaming in WMSNs. | Dr. M. Rama Krishna reddy | JNTUA Anantapur |
| 7 | R. Sandeep Kumar |  | Dr. Raghavendra V Kulkarni | MS Ramaiah University of Applied Sciences |

***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***