1. **Continuous Improvement (100)**

From 9.1 to 9.5 the assessment calculation can be done as follows:

a, b and c are the success indices which correspond to LYGm2, LYGm1 and LYG respectively then, assessment can be calculated as

Assessment=(b-a) /(100-min(b, a)) + (c-b)/(100-min(c, b))

If a, b, c are above 75% and a decline is within 5%, then the performance does not fall below75% and the performance is considered sustainable.

* 1. **Improvement in Success Index of students (10)**

**From 4.1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Items | 2020-2021  (2018-2021 batch) | 2019-2020  (2017-2020 batch) | 2018-2019  (2016-19 batch) | **Assessment** |
| Success index | **0.94** | **0.98** | **0.87** | 0.0007 |

* 1. **Improvement in Academic Performance Index of Students (10)**

**From 4.2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Items | 2020-2021  (2018-19 Batch) | 2019-2020  (2017-18 Batch) | 2018-2019  (2016-17 Batch) | **Assessment** |
| API | **8.08** | **8.22** | **7.84** | 0.0026 |

* 1. **Improvement in Student Teacher Ratio (10)**

**From 5 .1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Items | 2021-2022 | 2020-2021 | 2019-2020 | 2018-2019 | **Assessment** |
| STR | 20 | 19.89 | 18.65 | 18.46 | 0.016616 |

* 1. **Enhancement of Faculty Qualification Index (10)**

**From 5 .3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Items | 2020-2021 | 2019-2020 | 2018-2019 | **Assessment** |
| FQI | 2624 | 24 | 22.29 | -0.04832 |

* 1. **Improvement in Faculty Research Publication, R&D and Consultancy (10)**

**From 5.7 & 5.9**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Items | **2020-21** | **2019-20** | **2018-19** | **Assessment** |
| FRP | **17.33** | **9.85** | **12** | 0.059124 |
| FPPC | 12 | 13 | 14 | -0.02286 |

* 1. **Continuing Education (10)**

In this criterion, the institution needs to specify the contributory efforts made by the faculty members by developing the course/laboratory modules, conducting short-term courses/workshops etc for continuing education during last three years.

Table 9. 1 Continuing Education

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module description** | **Any other contributory institute/ industry** | **Developed/**  **organized by** | **Duration** | | **Resource persons** | | **Target audience** | | **Usage and citation, etc.** | |
| **2020-2021** | | | | | | | | | | |
| Big Data Management: An End to End Perspective | CSE, ISE & MCA | Sailaja Kumar | 15/06/2020 to 19/06/2020 | | Mrs. K Sailaja Kumar,  Mr. Sunil Govindan,  Engineering Manager, Cloudera  Mr. Atif Adib  Data Scientist, Yodlee India | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to learn about Big-Data management. | |
| Trends in Data Science | MCA, ISE & CSE | Dr.S jagannath  Dr.M. Niranjanamurthy | 13/07/2020 to 17/07/2020 | | Technical Experts from AWS, HPE, Microfocus Pvt. Ltd, C-DAC, Cognizant | | Students, Faculties | | Useful for Students, Faculties to learn about Trends in Data Science | |
| Selenium Webdriver Using Python | MCA | Dr.M. Niranjanamurthy | 07/12/2020 TO 12/12/2020 | | Ayan Nigam  CEO, Deepiotics Pvt. Ltd,  Bhawana Nigam  Assistant Professor,  The Institute of Engineering &amp;  Technology (IET)  Mr.Sandeep  Qspiders U/O Test Yantra  Software Solutions(I) Pvt. Ltd. | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to explore about selenium webdriver using python | |
| Selenium Webdriver Using Python | MCA | Dr.M. Niranjanamurthy | 14/12/2020 TO 19/12/2020 | | Ayan Nigam  CEO, Deepiotics Pvt. Ltd,  Bhawana Nigam  Assistant Professor,  The Institute of Engineering &amp;  Technology (IET)  Mr.Sandeep  Qspiders U/O Test Yantra  Software Solutions(I) Pvt. Ltd | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to explore about selenium webdriver using python | |
| Selenium Webdriver Using Python | MCA | Dr.M. Niranjanamurthy | 04/11/2020 to 10/11/2020 | | Ayan Nigam  CEO, Deepiotics Pvt. Ltd,  Bhawana Nigam  Assistant Professor,  The Institute of Engineering &amp;  Technology (IET)  Mr.Sandeep  Qspiders U/O Test Yantra  Software Solutions(I) Pvt. Ltd | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to explore about selenium webdriver using python | |
| Selenium Webdriver Using Python | MCA | Dr.M. Niranjanamurthy | 11/11/2020 to 19/11/2020 | | Ayan Nigam  CEO, Deepiotics Pvt. Ltd,  Bhawana Nigam  Assistant Professor,  The Institute of Engineering &amp;  Technology (IET)  Mr.Sandeep  Qspiders U/O Test Yantra  Software Solutions(I) Pvt. Ltd | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to explore about selenium webdriver using python | |
| Selenium Webdriver Using Python | MCA | Dr.M. Niranjanamurthy | 20/11/2020 to 26/11/2020 | | Ayan Nigam  CEO, Deepiotics Pvt. Ltd,  Bhawana Nigam  Assistant Professor,  The Institute of Engineering &amp;  Technology (IET)  Mr.Sandeep  Qspiders U/O Test Yantra  Software Solutions(I) Pvt. Ltd | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to explore about selenium webdriver using python | |
| Selenium Webdriver Using Python | MCA | Dr.M. Niranjanamurthy | 27/11/2020 to 04/12/2020 | |  | | Students, Faculties and Industry people | | Useful for Students, Faculties and Industry people to explore about selenium webdriver using python | |
| **2019-2020** | | | | | | | | | | |
| Digital Forensics | MCA, CSE& ISE | Dr. Manish Kumar and Mr. Chethan Venkatesh | 13-01-2020 to 18-01-2020 | | Chethan Venkatesh  Dr. Manish Kumar | | Students of MSRIT and other colleges in Bangalore | | Useful to students And Staff to get knowledge about Digital forensics | |
| Modern Web Application Development Using Mean Stack | CSE, ISE & MCA | Dr.Madhu Bhan  Mr.Abhishek K L | 06-01-2020 to 10-01-2020 | | Industry Experts from SAP, IBM,JP Morgan, Micro Focus | | Faculty from various engineering colleges across Karnataka | | Useful for Faculties who wants to become ethical Hackers. | |
| Role of Blockchain and Artificial Intelligence in Application of Cyber Security | ISE, CSE & MCA | Dr. S Ajitha  Dr. Manish Kumar | 22-7-2019 to 26-7-2019 | | Industry and academia | | Students of MSRIT | | Useful for students to do IoT projects. | |
| 3- Day Online Staff Development program on “Soft Skills and Cloud Technologies | MCA | Dr. M Mrunalini | 29/06/2020 to 01/07/2020 | | Technical Experts from ROOMAN Technologies Pvt.Ltd | | Faculty from various engineering colleges across Karnataka | | Useful for faculties to introduce OBE in teaching and learning process. | |
| Predictive Analytics with AWS | MCA, CSE & ISE | Dr.Jagannath S  Mrs.Sailaja Kumar  Dr.S Seeema  Mr. Mani Sekhar | 15-7-2019 to 20-7-2019 | | Technical Experts from AWS Educate, RIT, IIITB,ICRIS Solutions Pvt.Ltd | | Faculty from MSRIT | | Useful for researchers, faculties and students working in non-destructive Testing | |
| Current Trends in Service Oriented Architechture | CSE, ISE & MCA |  | 08-7-2019 to 13-7-2019 | | Industry and academia | | Faculty from various engineering colleges across Karnataka | | Useful for researchers, faculties and students working in OMICS data analysis. | |
| Workshop on "Creating Scientific Awareness through Demonstration of Medicinal Plants" | MCA | Dr.Evangelin geetha | 25-11-2019 to 29-11-2019 | | Research Institutions, NGOs and Industry | | Students | | Useful for students to get awareness through Demonstration of Medicinal Plants | |
| Workshop on "Creating Scientific Awareness through Demonstration of Medicinal Plants" | MCA | Dr.Evangelin geetha | 09-12-2019 to 13-12-2019 | | Research Institutions, NGOs and Industry | | Students | | Useful for students to get awareness through Demonstration of Medicinal Plants | |
| Workshop on "Creating Scientific Awareness through Demonstration of Medicinal Plants" | MCA | Evangelin Geetha  K Sailaja Kumar  B N Nithya  Dr. Madhu Bhan  Dr. Niranjanamurthy M | 06-01-2020 to 10-01-2020 | | Research Institutions, NGOs and Industry | | Students | | Useful for students to get awareness through Demonstration of Medicinal Plants | |
| Workshop on "Creating Scientific Awareness through Demonstration of Medicinal Plants" | MCA | Dr. D Evangelin Geetha  K Sailaja Kumar  B N Nithya  Dr. S Jagannatha  Dr. Manish Kumar | 13-01-2020 to 18-01-2020 | | Research Institutions, NGOs and Industry | | Students | | Useful for students to get awareness through Demonstration of Medicinal Plants | |
| “Five Days Webinar Series for Students” | MCA | Dr.S Ajitha  Abhishek K L | 16th -20th June 2020 | | Mr.Jidu Mohan,Siemens  Mr.Chethan Shetty, HCL  Mr.Jayasimha Rao, Visteon Corp  Mr.Prasad chitta, TCS  Dr.Vijaya Kumar BP, RIT | | Students of MSRIT | | Useful for students to explore in AI and ML | |
| **2018-2019** | | | | | | | | | | |
| Practical Statistical Machine Learning and Data Science with Julia | ISE/CSE/IBM | Dr. Niranjanamurthy M |  | 11th to 16th June 2018 | | Staff from Julia | | Faculties from RIT and other colleges | | Useful for Faculties in Research and Teaching | |
| Two weeks Course on “ Challenges in Data, Information and Network Security” under CISCO-MSRIT Summer Course | CISCO/CSE/ISE/MCA | Chethan Venkatesh |  | 2nd  to 13th July 2018 | | Resource people from CISCO | | Faculties and Students from RIT | | Useful for Faculties and Students | |
| Workshop on DevOps | ISE/CSE | Dr. M Niranjanamurthy |  | 21th Jan 19 to 25th Jan19 | | Skillrary,Bangalore | | Faculties from RIT and other colleges | | Useful for faculties to introduce in their curriculum | |
| Blockchain  Application  Development using  Hyperledger | IBM/ISE/CSE | Dr. M Mrunalini  Dr. Manish Kumar |  | 28th Jan 19 to 2nd Feb19 | | Dr. M Mrunalini  Dr. Manish Kumar and  IBM Staff | | Faculties from RIT and other colleges | | Useful for faculties to introduce in their curriculum and Research | |

* 1. **New Facility Created (15)**

New facilities created during the last three years for strengthening the Curriculum and/or meeting the POs are given in Table 9.2.

Table 9. 2 New Facilities Created

|  |  |  |  |
| --- | --- | --- | --- |
| **Facility Description** | **Developed / organized by** | **Target Audience** | **Usage and citation etc.** |
| Learning Management System (Impartus) | Management | Faculty & Students | The facility is used for online as well as recorded lecture delivery. |
| Portable Speaker/Audio System | Management | Faculty & Students | The facility is used for Workshops, Seminars, FDP, Student Activities etc. |
| iScribe Pad | Management | Faculty & Students | The facility is used for online class. |
| New Laptops (02 Nos) | Management | Faculty & Students | The facility is used for online class. |
| 60 New Systems in LAB 3 | Management | Students | The facility is used for lab works . |