



**Rashtreeya Sikshana Samithi Trust**

**RV College of Engineering®, (R.V.C.E)**

R.V. Vidyaniketan Post, 8<sup>th</sup> Mile, Mysuru Road, Bengaluru - 5600 59  
(Autonomous Institution affiliated to the Visvesvaraya Technological University  
(V.T.U), Belagavi, Karnataka)

**Annual Quality Assurance Report  
(AQAR)  
2018 - 2019**

**Submitted to**



**राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद**

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**National Assessment and Accreditation Council**

*An Autonomous Institution of the University Grants Commission*

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi,  
Bengaluru - 560 072 India

## Part – A

### Data of the Institution

<b>1. Name of the Institution</b>	:	R V College of Engineering
• Name of the Head of the institution	:	Dr. K.N. Subramanya
• Designation	:	Principal
• Does the institution function from own campus	:	Yes
• Phone No. / Alternate phone No.	:	080 - 67178161 / 080 - 67178020
• Mobile No.	:	9663699299
• Registered Email	:	<a href="mailto:principal@rvce.edu.in">principal@rvce.edu.in</a>
• Alternate Email	:	<a href="mailto:subramanyakn@rvce.edu.in">subramanyakn@rvce.edu.in</a>
• Address	:	RV College of Engineering, R V Vidyaniketan Post, 8 <sup>th</sup> Mile, Mysore Road, Bengaluru City – 560 059
• City / Town	:	Bengaluru City
• State/UT	:	Karnataka
• Pin Code	:	560059
<b>2. Institutional status</b>		
• Autonomous Status ( provide the date of Conformant of Autonomous Status)	:	2007-08, Dt. 10.12.2007- UG. 2016-17, Dt 22.08.2016 for PG
• Type of Institution: Co-education/Men/Women	:	Co-Education
• Location : Rural/Semi-urban/Urban	:	Urban
• Financial Status: Grants-in aid/ UGC 2f and 12 (B) / Self financing (Please specify)	:	Self Financing
• Name of the IQAC Co-ordinator / Director	:	Dr. Narahari N S
• Phone No. /Alternate Phone No.	:	080-67178408
• Mobile	:	9880311128
• IQAC e-mail address	:	<a href="mailto:iqac@rvce.edu.in">iqac@rvce.edu.in</a>
• Alternate Email address	:	<a href="mailto:naraharins@rvce.edu.in">naraharins@rvce.edu.in</a>
<b>3. Website address</b>	:	<a href="http://www.rvce.edu.in">www.rvce.edu.in</a>
Web-link of the AQAR: (Previous Academic Year)	:	<a href="https://rvce.edu.in/naac-docs/AQAR 2018-19.doc">https://rvce.edu.in/naac-docs/AQAR 2018-19.doc</a>

<b>4. Whether Academic Calendar prepared during the year? Yes/No....., if yes, whether it is uploaded in the Institutional website</b>	:	Yes																											
https	:	www.rvce.edu.in																											
Weblink	:	https://www.rvce.edu.in//calendar-of-events																											
<b>5. Accreditation Details</b>	:																												
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<b>6. Date of Establishment of IQAC DD/MM/YYYY</b>	:	30-03-2016																											
<b>7. Internal Quality Assurance System</b>	:																												
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**8. Provide the list of Special Status conferred by Central/ State Government UGC/ CSIR/ DST / DBT / ICMR /TEQIP /World Bank / CPE of UGC etc.**

Institution / Department / Faculty	Scheme	Funding agency	Year of award with duration	Amount
AICTE-Share & Mentor Institutions (Margadarshak Schemes)	Margadarshak Chief Coordinator: Dr. B.V.Uma	AICTE	13.6.2018 for 3 years	17.0 lakhs

**9. Whether composition of IQAC as per latest NAAC guidelines: Yes / No: Yes**

Internal Quality Assurance Cell (IQAC)	
A few senior administrative officers	<ol style="list-style-type: none"> <li>Dr. K.N. Subramanya, Principal</li> <li>Lt. Col (Retd.) Ishwar Doddamani, Dy. Dir. (Admn.)</li> <li>Mr. S.K. Venkatesh, Admin Manager</li> <li>Mr. Ganapathy Aithal, Accounts Superintendent</li> </ol>
Three to eight teachers	<ol style="list-style-type: none"> <li>Dr. G. Sadashivappa, CoE</li> <li>Dr. S.C. Prasanna Kumar, Prof. Dept. of E&amp;IE</li> <li>Dr. Ramesh S. Sharma, Prof. Dept. of ME</li> <li>Dr. Neeta Shivakumar, Assoc. Prof. Dept. of BT</li> <li>Dr. Ramaa A, Assoc. Prof. Dept. of IEM</li> <li>Mrs. M.R. Archana, Asst. Prof. Dept. of CV</li> </ol>
One member from the Management	<ol style="list-style-type: none"> <li>Sri. D.P. Nagaraj, Hon. Jt. Secretary, RSST.</li> </ol>
One/two nominees from local society, Students and Alumni	<ol style="list-style-type: none"> <li>Prof. U.H. Acharya Professor, SQC &amp; OR Unit, Indian Statistical Institute, 8<sup>th</sup> Mile, Mysore Road, Bengaluru – 560059. Mobile: 94483 61586 email: uhacharya@gmail.com</li> <li>Sri. Koushik Mudda Co-Founder &amp; CEO, Ethereal Machines, Bengaluru</li> </ol>
One/two nominees from Employers/Industrialists/ stakeholders	<ol style="list-style-type: none"> <li>Dr. M.H. Kori Technology Consultant, 520, 11th 'A' Cross, R.M.V. Extension, Sadashivanagar, Bengaluru – 560080.</li> <li>Ms. Girija Kolagada Director, Software Development, Cloud Native Engg. Group &amp; GBU, Oracle India Pvt. Ltd., Kalyani Magnum Infotech Park, Block I &amp; II, 'B' Wing, 165/2, Doraisanipalya, J.P. Nagar, 7<sup>th</sup> Phase, Bengaluru – 560076.</li> </ol>
One of the senior teachers as the coordinator	<ol style="list-style-type: none"> <li>Dr. N.S. Narahari, Professor, Dept. of IEM*</li> </ol>

**10. No. of IQAC meetings held during the year 18-19**Date: 14<sup>th</sup> Sept. 2018, 22<sup>nd</sup> Sept. 2018, 8<sup>th</sup> Dec. 2018

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. Yes / No : Yes

<b>11. Whether IQAC received funding from any of the funding agency to support its Activities during the year?</b>	:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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**12. Significant contributions made by IQAC during the current year (maximum five bullets)**

- Promotion of ICT usage in teaching learning process in various courses in all the academic programs of engineering/technology at both Undergraduate & Post graduate levels.
- Orientation program for fresher's as per AICTE mandate –Induction program for newly admitted students to acclimatise the students to the campus environment before the commencement of the

first year degree courses for all programs of study.

- Research in Centre of Excellence in Internet of Things
  - Centre of Excellence in SAS (Smart Antenna Systems)
  - Centre of Excellence in Computational Genomics
  - Setting up a separate committee to look into the matters of Intellectual property rights and to support the faculty and students for filing patents and to promote research with commercialization intent.
  - A separate portal for employees under the banner of success factor for self-help of employees with openness and transparency of the Leave administration system and for employee self appraisal process with voluntary process of goal setting and management of employee performance matters.
- Enhanced focus on strengthening the Industry –Institute partnership with a separate committee consisting of a IIPC coordinator and members drawn from all the departments of the institution.

**13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year**

Plan of Action	Achievements/Outcomes
Adaption of ICT in teaching learning process.	There are at least one or more courses in each of the department which effectively leverages of ICT to enhance the Quality of the teaching learning process and a culture of cross learning among the faculty members.
Goal setting for employees.	Employees (Both teaching and Support staff) trained on using success factor portal for goal setting and management of the annual performance goals. A transparent and open system instituted.
Setting up of a Committee for overseeing Patent & IPR matters.	Increased focus on promoting awareness among the faculty and students on the role & importance of IPR and commercially driven and socially relevant research initiatives.
Orientation program for the entire fresher's on the campus as per AICTE mandate.	A 15 day induction program planned & implemented by inviting achievers from all the social spheres to motivate the students to see the larger purpose and to develop big picture thinking, before the commencement of their engineering curricula.
Setting up an exclusive design thinking laboratory for the teaching of a design thinking course in the second year of the four year degree program of study.	A separate block for Innovative clubs and design thinking laboratory has been sanctioned and the works related to the same has commenced in full swing during the year 2018-2019.
Increased focus on partnership through the Industry –Institute partnership committee.	Increase in the number of collaborative projects with industry, increase in the number of internship opportunity to the students. In some cases joint offering of the courses by both the academia and industry professionals. Increase in the number of industry based projects by the students.
Focus on international collaboration & MoU's with Globally renowned institutions.	A couple of MoU's with international institutions and universities of repute with proper action plan commenced.

**14. Whether the AQAR was placed before statutory body?**

: Yes ☒ No ☐

Name of the Statutory body

: Academic Council Meeting

Date of meeting(s)

: 18.12.2019

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?</b>	:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date : NBA Team visited the Institution on 5.2.2019 for compliance report of the Programs in offered for Extension of period of Validity: UG – ECE,CSE & Civil Engineering			
<b>16. Whether institutional data submitted to AISHE</b>	:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Year : 2018-19		Date of Submission : 21.1.2019	
<b>17. Does the Institution have Management Information System?</b>	:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)			
<p><b>SAP ERP package</b> is implemented for Modules such as</p> <ul style="list-style-type: none"> <li>– Finance &amp; Controlling (FICO),</li> <li>– Human Cost Management (HCM)</li> <li>– Materials Management (MM).</li> </ul> <p>Success Factor involving Leave Management System is in completion stage and the implementation of the Student Life cycle Management module is currently in progress.</p> <p><b>Brief description of the SAP Modules:</b></p> <p><b>MM (Materials Management):</b>  All the purchases will be routed through MM as follows:</p> <ol style="list-style-type: none"> <li>1. Purchase Requisition (PR) will be initiated to get approval for the purchase. Based on the approval limit, the requisition will get approved through system.</li> <li>2. As soon the PR get approved, the Request for Quotation (RFQ) will be placed for concerned approval. Based on the approval limit, the RFQ will get approved through the system</li> <li>3. The quotation will be called, consolidated and the prices for the same will be maintained in MM. Based on the final negotiated price, comparative statement will be extracted. The vendor will be selected based on the least quote, technical specification etc.</li> <li>4. Purchase Order (PO) will be placed for approval from the concerned authorities. Soon after the approval of PO, the will be send to concerned vendor. As soon we receive / obtain the materials / service, a transaction called MIGO for goods and Service entry sheet for services will be entered and the file will be handed over to Accounts section for payment.</li> </ol> <p><b>HCM (Human Capital Management):</b>  The details of appointments, relieving, Increments, promotion, encashment, Leave without pay etc allowances or deductions related to staff will be received from Establishment section and will be keyed in HCM module. Other remunerations and statutory deductions will be entered / checked and the salary will be processed and a run number will be given to Accounts section to verify the mapping of General ledgers with amount. As soon the Accounts section authenticates the correctness, necessary postings will be made.</p> <p><b>FICO (Finance &amp; Controlling):</b>  All the financial transaction whether it's a receipt or expenditure will be entered in FICO. Non PO items will be directly taken into FICO and purchases through PO will be processed by the T Code MIRO with interface of MM. HCM interface entries will be processed for payment of salary and other statutory deductions.  All the asset creation and asset capitalization will be done through FICO.  Cheque printing, invoice posting, Bank Reconciliation Statements etc will be processed through FI entries.</p> <p><b>Record Keeping:</b> All the documents related to above said processes can be digitally saved in SAP_DMS (Document Management System). At present, the documents are maintained both the ways in DMS &amp; hard copies</p>			

## Part – B

### CRITERION I – CURRICULAR ASPECTS

<b>1.1 Curriculum Design and Development</b>		
<b>1.1.1 Programmes for which syllabus revision was carried out during the Academic year</b>		
<b>Name of programme</b>	<b>Programme Code</b>	<b>Dates of revision</b>
Aerospace Engineering	AS	01-08-2018
Biotechnology	BT	01-08-2018
Chemical Engineering	CH	01-08-2018
Civil Engineering	CV	01-08-2018
Computer Science and Engineering	CSE	01-08-2018
Electrical and Electronics Engineering	EEE	01-08-2018
Electronics and Communication Engineering	EC	01-08-2018
Electronics and Instrumentation Engineering	EIE	01-08-2018
Industrial Engineering and Management	IEM	01-08-2018
Information Science and Engineering	ISE	01-08-2018
Mechanical Engineering	ME	01-08-2018
Telecommunication Engineering	TE	01-08-2018
Basic Sciences	BS	01-08-2018
Master of Computer Applications	MCA	01-09-2018
Master of Technology Biotechnology	MBT	01-09-2018
Master of Technology in Structural Engineering	MSE	01-09-2018
Master of Technology in Highway Technology.	MHT	01-09-2018
Master of Technology in Computer Science & Engineering	MCSE	01-09-2018
Master of Technology in Computer Network & Engineering	MCNE	01-09-2018
Master of Technology in Power Electronics	MTPE	01-09-2018
Master of Technology in Communication Systems	MCS	01-09-2018
Master of Technology in VLSI Design & Embedded Systems	MVE	01-09-2018
Master of Technology in Bio-Medical Signal Processing & Instrumentation	MBI	01-09-2018
Master of Technology in Software Engineering	MSE	01-09-2018
Master of Technology in Information Technology	MIT	01-09-2018
Master of Technology in Product Design and Manufacturing	MPDM	01-09-2018
Master of Technology in Computer Integrated Manufacturing	MCIM	01-09-2018
Master of Technology in Machine Design	MMD	01-09-2018
Master of Technology in Digital Communication Engineering	MDCE	01-09-2018
Master of Technology in RF and Microwave Engineering	MRFM	01-09-2018

#### 1.1.2 Programmes / courses focused on employability/ entrepreneurship/ skill development during the Academic year

<b>Programme with Code</b>	<b>Course with Code</b>	<b>Date of Introduction</b>
<b>Aerospace Engineering (AS)</b>	Engineering Materials (16EM32)	01-08-2018
	Thermodynamics (16AS34)	01-08-2018
	Mechanics of Fluids (16AS35)	01-08-2018
	Structural Mechanics (16AS36)	01-08-2018



Programme with Code	Course with Code	Date of Introduction
<b>Aerospace Engineering (AS)</b>	Environmental Technology (16ET42)	01-08-2018
	Aerodynamics (16AS43)	01-08-2018
	Aerospace Structures (16AS44)	01-08-2018
	Kinematics and Dynamics of Machines (16AS45)	01-08-2018
	Manufacturing Technology (Theory & Practice) (16AS46)	01-08-2018
	IPR & Entrepreneurship (16HSI51)	01-08-2018
	Flight Mechanics (Theory & Practice) (16AS52)	01-08-2018
	Gas Dynamics (Theory & Practice) (16AS53)	01-08-2018
	Mechanics of composite structures (16AS54)	01-08-2018
	Finite Element Methods (16AS55)	01-08-2018
	Experimental Aerodynamics (16AS5A1)	01-08-2018
	Fatigue & Fracture Mechanics (16AS5A2)	01-08-2018
	Aerospace Reliability and Quality Control (16AS5A3)	01-08-2018
	Numerical Methods (16AS5A4)	01-08-2018
	Foundations of Management & Economics(16HEM61)	01-08-2018
	Aerospace Propulsion (Theory & Practice) (16AS62)	01-08-2018
	Vibration Engineering (Theory & Practice) (16AS63)	01-08-2018
	Aircraft Instrumentation (Theory & Practice) (16AS64)	01-08-2018
	Professional Practice-III (16HSE68)	01-08-2018
	Computational Fluid Dynamics (16AS6C1)	01-08-2018
	Cryogenics (16AS6C2)	01-08-2018
	Hydraulics and Pneumatics (16AS6C3)	01-08-2018
	Fundamentals of Astrophysics (16AS6D3)	01-08-2018
	Advanced Material Technology (16AS6C4)	01-08-2018
	Non-Destructive Testing and Evaluation (16AS6C5)	01-08-2018
	Boundary Layer Theory (16AS6D1)	01-08-2018
	Experimental Stress Analysis (16AS6D2)	01-08-2018
	Spacecraft Design (16AS6D4)	01-08-2018
	Combustion & Heat Transfer (16AS6D5)	01-08-2018
	Aircraft Systems (16GE6XX)	01-08-2018
	Control Engineering (16AS71)	01-08-2018
	Aircraft Stability & control (16AS72)	01-08-2018
	Avionics (16AS73)	01-08-2018
	Mini Project (16AS74)	01-08-2018
	Missile Aerodynamics (16AS7F1)	01-08-2018
	Hypersonic Aerodynamics (16AS7G1)	01-08-2018
	Unmanned Air Vehicles (16GH7XX)	01-08-2018
	Operations Research (16AS7F2)	01-08-2018
	Theory of Aero Elasticity (16AS7G2)	01-08-2018
	Space Dynamics (16AS7F3)	01-08-2018
	Helicopter Dynamics (16AS7G3)	01-08-2018
	Smart Materials (16AS7F4)	01-08-2018
	Flight Testing (16AS7G4)	01-08-2018
	Unmanned Air Vehicles (16GH7XX)	01-08-2018
	Major Project (16XXP81)	01-08-2018
	Technical Seminar (16XXS82)	01-08-2018
	Innovation and Social Skills (16HSS83)	01-08-2018
<b>Biotechnology (BT)</b>	Biology for Engineers (16EB32)	01-08-2018
	Biochemistry (16BT33)	01-08-2018
	Cell and Microbiology (16BT34)	01-08-2018
	Unit Operations (16BT35)	01-08-2018



Programme with Code	Course with Code	Date of Introduction
<b>Biotechnology (BT)</b>	Thermodynamics (16BT36)	01-08-2018
	Biostatistics (16BT41)	01-08-2018
	Environmental Technology (16ET42)	01-08-2018
	Biophysics. & Instrumentation techniques (16BT43)	01-08-2018
	Basics of Computer applications (16BT44)	01-08-2018
	Process Principles and Calculations (16BT45)	01-08-2018
	Molecular Biology (16BT46)	01-08-2018
	Professional Practice – II (16HS47)	01-08-2018
	IPR & Entrepreneurship (16HSI51)	01-08-2018
	Bioinformatics (16BT52)	01-08-2018
	Genetic Engineering (16BT53)	01-08-2018
	Reaction Engineering (16BT54)	01-08-2018
	Immuno Technology (16BT55)	01-08-2018
	Foundations of Management & Economics (16HEM61)	01-08-2018
	Microbial Biotechnology (16BT62)	01-08-2018
	Process Dynamics & Control (16BT63)	01-08-2018
	Genomics & Proteomics (16BT64)	01-08-2018
	Plant Biotechnology (16BT71)	01-08-2018
	Downstream Processing (16BT72)	01-08-2018
	Animal Biotechnology (16BT73)	01-08-2018
	Major Project (16BTP81)	01-08-2018

<b>Chemical Engineering (CH)</b>	Engineering Materials (16EM32B)	01-08-2018
	Chemical Engineering Thermodynamics (16CH33)	01-08-2018
	Momentum Transfer (16CH34)	01-08-2018
	Process Principles and Calculations (16CH35)	01-08-2018
	Technical Chemistry (16CH36)	01-08-2018
	Environmental Technology (16ET42)	01-08-2018
	Process Heat Transfer (16CH43)	01-08-2018
	Particulate Technology (16CH44)	01-08-2018
	Chemical Technology (16CH45)	01-08-2018
	Mass Transfer-I (16CH46)	01-08-2018
	Professional Practice-II (16HS47)	01-08-2018
	Foundations of Management and Economics (16HEM51)	01-08-2018
	Chemical Reaction Engineering (16CH52)	01-08-2018
	Mass transfer-II (16CH53)	01-08-2018
	Chemical Plant utilities and safety systems (16CH54)	01-08-2018
	Chemical Process Integration(16CH55)	01-08-2018
	Elective A (PE) (16CH5AX)	01-08-2018
	Elective B (OE) (16G5BXX)	01-08-2018
	Nanotechnology(16CH5A1)	01-08-2018
	Renewable Energy Technologies (16CH5A2)	01-08-2018
	Applied mathematics for chemical Engineering(16CH5A3)	01-08-2018
	Piping Engineering Design(16CH5A4)	01-08-2018
	Fuel Cell Technology(16G5BXX)	01-08-2018
	IPR & Entrepreneurship(16HS161)	01-08-2018
	Chemical Equipment Design and Drawing(16CH62)	01-08-2018
	Process Simulation and Modelling (16CH63)	01-08-2018
	Heterogeneous Reaction Systems(16CH64)	01-08-2018
	Elective C (PE) (16CH6CX)	01-08-2018
	Elective D (PE) (16CH6DX)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
	Elective E (O E) (16G6XX)	01-08-2018
	Professional Practice-III (16HS68)	01-08-2018
	Nanofabrication(16CH6C1)	01-08-2018
	Fuel cell Technology(16CH6C2)	01-08-2018
	Computational methods for chemical Engineers(16CH6C3)	01-08-2018
	Pilot plant and scale up studies(16CH6C4)	01-08-2018
	Biochemical Engineering(16CH6D1)	01-08-2018
	Pollution control Engineering(16CH6D2)	01-08-2018
	Novel separation Techniques(16CH6D3)	01-08-2018
	Polymer Science and Technology(16CH6D4)	01-08-2018
	Green Technology(16G6BXX)	01-08-2018
	Transport Phenomena(16CH71)	01-08-2018
	Process Dynamics and Control(16CH72)	01-08-2018
	Process Engineering Economics(16CH73)	01-08-2018
	Nanotechnology Applications(16CH7F1)	01-08-2018
	Biofuel Engineering(16CH7F2)	01-08-2018
	Computational Fluid Dynamics(16CH7F3)	01-08-2018
	Instrumental Methods of Analysis(16CH7F4)	01-08-2018
	Food Technology(16CH7G1)	01-08-2018
	Petrochemical Processing(16CH7G2)	01-08-2018
	Industrial Safety and Risk Management(16CH7G3)	01-08-2018
	Polymer Composites(16CH7G4)	01-08-2018
	Industrial Safety and Risk Management(16G7HXX)	01-08-2018
	Major Project(16CHP81)	01-08-2018
	Technical Seminar(16CHS82)	01-08-2018
	Innovation and Social Skills(16HSS83)	01-08-2018
<b>Civil Engineering (CV)</b>	HPC and Big data analysis	01-08-2018
	Engineering Materials (16EM32A)	01-08-2018
	Strength of Materials (16CV33)	01-08-2018
	Concrete Technology (16CV34)	01-08-2018
	Fluid Mechanics (16CV35)	01-08-2018
	Water supply and Treatment Engineering (16CV36)	01-08-2018
	Environmental Technology (16ET42)	01-08-2018
	Theory of Structures (16CV43)	01-08-2018
	Building Construction and Planning (16CV44)	01-08-2018
	Surveying (16CV45)	01-08-2018
	Waste Water Engineering (16CV46)	01-08-2018
	Professional Practice-II (16HS47)	01-08-2018
	Water Resources Engineering (16CV49)	01-08-2018
	Foundations of Management and Economics (16HEM51)	01-08-2018
	Structural Analysis (16CV52)	01-08-2018
	Design and Drawing of RCC Structures (16CV53)	01-08-2018
	Highway Engineering (16CV54)	01-08-2018
	Irrigation and Hydraulic Structures (16CV55)	01-08-2018
	IPR & Entrepreneurship (16HSI61)	01-08-2018
	Geotechnical Engineering (16CV62)	01-08-2018
	Prestressed Concrete Structures (16CV63)	01-08-2018
	Transportation Engineering (16CV64)	01-08-2018
	Professional Practice-III (Employability Skills and Professional Development of Engineers) (16HS68)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Civil Engineering (CV)</b>	Structural Masonry (16CV6C1)	01-08-2018
	Traffic Engineering & Transportation Planning (16CV6C2)	01-08-2018
	Air pollution & control Engineering (16CV6C3)	01-08-2018
	Watershed Management (16CV6C4)	01-08-2018
	Structural Dynamics (16CV6D1)	01-08-2018
	Remote sensing & GIS (16CV6D2)	01-08-2018
	Construction Management (16CV6D3)	01-08-2018
	Advanced Concrete Technology (16CV6D4)	01-08-2018
	Bioinspired Engineering (16GE6E01)	01-08-2018
	Green Technology (16GE6E02)	01-08-2018
	Solid Waste Management (16GE6E03)	01-08-2018
	Introduction To Web Programming (16GE6E04)	01-08-2018
	Automotive Electronics (16GE6E05)	01-08-2018
	Industrial Electronics (16GE6E06)	01-08-2018
	Project Management (16GE6E07)	01-08-2018
	Virtual Instrumentation (16GE6E08)	01-08-2018
	Introduction to Mobile Application Development (16GE6E09)	01-08-2018
	Automotive Engineering (16GE6E10)	01-08-2018
	Mobile Network System And Standards (16GE6E11)	01-08-2018
	Partial Differential Equations (16GE6E12)	01-08-2018
	Design and Drawing of Steel Structures (16CV71)	01-08-2018
	Foundation Engineering (16CV72)	01-08-2018
	Estimation and Costing (16CV73)	01-08-2018
	Extensive Survey Project * (16CV74)	01-08-2018
	Bridge Engineering (16CV7F1)	
	Solid waste Engineering (16CV7F2)	01-08-2018
	Ground Improvement Techniques (16CV7F3)	01-08-2018
	Urban Water Engineering and Management (16CV7F4)	01-08-2018
	Advanced Design of RCC Structures (16CV7G1)	01-08-2018
	Pavement Analysis and Design (16CV7G2)	01-08-2018
	Rock Mechanics (16CV7G3)	01-08-2018
	Valuation Engineering (16CV7G4)	01-08-2018
	Major Project (16CVP81)	01-08-2018
	Technical Seminar (16CVS82)	01-08-2018
<b>Computer Science and Engineering (CSE)</b>	Laplace Transforms, Fourier Series and Linear Algebra (16MA31A)	01-08-2018
	Biology for Engineers (16EB32)	01-08-2018
	Data Structures Using C (16CS33)	01-08-2018
	Logic Design (16CS34)	01-08-2018
	Computer Organization (16CS35)	01-08-2018
	Discrete Mathematics (16CS36)	01-08-2018
	Bridge Course C Programming (16DCS37)	01-08-2018
	Graph Theory and Probability Theory (16MA41A)	01-08-2018
	Environmental Technology (16ET42)	01-08-2018
	Design and Analysis of Algorithms (16CS43)	01-08-2018
	Object Oriented Programming using JAVA (16CS44)	01-08-2018
	Operating Systems (16CS45)	01-08-2018
	Theory of Computation (16CS46)	01-08-2018
	Professional Practice-II (Communication Skills and Professional Ethics) (16HS47)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Computer Science and Engineering (CSE)</b>	Bridge Course Mathematics (16DMA48)	01-08-2018
	Intellectual Property Rights & Entrepreneurship (16HSI51)	01-08-2018
	Database Design (Theory and practice) ( 16CS52)	01-08-2018
	Microcontroller & Embedded Systems (Theory & Practice) (16CS53)	01-08-2018
	Software Engineering (Theory and Practice)( 16CS54)	01-08-2018
	Computer Communication & Networks(16CS55)	01-08-2018
	Elective A (PE)( 16CS5AX)	01-08-2018
	Elective B (OE) (16G5BXX)	01-08-2018
	Foundations of Management and Economics(16HEM61)	01-08-2018
	Compiler Design (Theory and Practice) (16CS62)	01-08-2018
	Computer Networks (Theory and Practice) (16CS63)	01-08-2018
	Computer Architecture (16CS64)	01-08-2018
	Professional Practice-III ( 16HS68 )	01-08-2018
	Parallel Architecture & Distributed Programming (16CS71)	01-08-2018
	Data Science and Machine Learning Essentials (16CS72)	01-08-2018
	Computer Graphics (16CS73)	01-08-2018
	Major Project(16CSP81)	01-08-2018
	Technical Seminar(16CSS82)	01-08-2018
	Innovation and Social Skill(16HSS83)	01-08-2018

<b>Electrical &amp; Electronics Engineering (EEE)</b>	Engineering Materials / Biology for Engineers (16EM3 / 16EB32)	01-08-2018
	Environmental Technology (12ET32)	01-08-2018
	Analog Electronics Systems (16EE33)	01-08-2018
	Digital Logic Design (16EE34)	01-08-2018
	Network Analysis (16EE35)	01-08-2018
	Signals & Systems (16EE36)	01-08-2018
	Measuring Instruments and Transducers (16EE41)	01-08-2018
	Engineering Materials/Biology for Engineers (16EM42 / 16EB42)	01-08-2018
	Environmental Technology (16ET42)	01-08-2018
	Microprocessor & Micro Controller (16EE43)	01-08-2018
	Fields & Waves (16EE44)	01-08-2018
	Electrical Machines-I (16EE45)	01-08-2018
	Control Systems (16EE46)	01-08-2018
	Professional Practice-II (Team Work & Professional Ethics) (16HSE48)	01-08-2018
	Intellectual Property Rights (16HSI51)	01-08-2018
	Digital Signal Processing (16EE52)	01-08-2018
	Electrical Machines Analysis-II (16EE53)	01-08-2018
	Generation Transmission Distribution (16EE54)	01-08-2018
	H.V Engineering (16EE55)	01-08-2018
	Foundation of Management and Economics (16HEM61)	01-08-2018
	Power Systems Analysis – I (16EE62)	01-08-2018
	Power Electronics (16EE63)	01-08-2018
	Modern Control Theory (16EE64)	01-08-2018
	Professional Practice-III - Employability Skills and Professional Development of Engineers (16HSE68)	01-08-2018
	Digital Image Processing (16EE5A1)	01-08-2018
	Object Oriented Programming with C++ (16EE5A2)	01-08-2018
	Embedded Systems (16EE5A3)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Electrical &amp; Electronics Engineering (EEE)</b>	Alternate Energy Sources (16EE5A4)	01-08-2018
	VLSI Circuit and Design (16EE6C1)	01-08-2018
	FLC and Applications (16EE6C2)	01-08-2018
	Utilization of Electrical Power (16EE6C3)	01-08-2018
	H.V.D.C Power Transmission (16EE6C4)	01-08-2018
	Computer organization and Architecture (16EE6D1)	01-08-2018
	Design and analysis of Algorithms (16EE6D2)	01-08-2018
	Discrete Control System (16EE6D3)	01-08-2018
	Power Quality And RPM (16EE6D4)	01-08-2018
	Bioinspired Engineering (16GE6E01)	01-08-2018
	Green Technology (16GE6E02)	01-08-2018
	Solid Waste Management (16GE6E03)	01-08-2018
	Introduction To Web Programming (16GE6E04)	01-08-2018
	Automotive Electronics (16GE6E05)	01-08-2018
	Industrial Electronics (16GE6E06)	01-08-2018
	Project Management (16GE6E07)	01-08-2018
	Virtual Instrumentation (16GE6E08)	01-08-2018
	Introduction to Mobile Application Development (16GE6E09)	01-08-2018
	Automotive Engineering (16GE6E10)	01-08-2018
	Mobile Network System And Standards (16GE6E11)	01-08-2018
	Partial Differential Equations (16GE6E12)	01-08-2018
	Power Systems Analysis –II (16EE71)	01-08-2018
	Modern Power System Protection (16EE72)	01-08-2018
	Mini Project and Industrial Tour (16EE73)	01-08-2018
	Flexible AC Transmission Systems (FACTS) (16EE7F1)	01-08-2018
	Object oriented Modelling and Design (16EE7F2)	01-08-2018
	Communication Systems (16EE7F3)	01-08-2018
	PLC and Automation (16EE7F4)	01-08-2018
	Digital protection of power systems (16EE7G1)	01-08-2018
	Power system operation and control (16EE7G2)	01-08-2018
	Industrial Drives and Applications (16EE7G3)	01-08-2018
	Electrical Installation Estimating and Costing (16EE7G4)	01-08-2018
	Major Project (16EEP81)	01-08-2018
	Technical Seminar (16EES82)	01-08-2018
	Innovation and Social Skills (16HSS83)	01-08-2018
<b>Electronics and Communication Engineering (ECE)</b>	Discrete and Integral Transforms (16MA31B)	01-08-2018
	Environmental Technology (16ET32)	01-08-2018
	Analog Microelectronic Circuits (16EC33)	01-08-2018
	Analysis & Design of Digital Circuits (16EC34)	01-08-2018
	Network Analysis & Synthesis (16EC35)	01-08-2018
	Control Systems (16EC36)	01-08-2018
	Linear algebra and Probability Theory (16MA41B)	01-08-2018
	Engineering Materials (16EM42B)	01-08-2018
	Advanced Digital System Design using Verilog HDL (16EC43)	01-08-2018
	Microprocessor & Microcontroller (16EC44)	01-08-2018
	Signals and Systems (16EC45)	01-08-2018
	Fields & Waves (16EC46)	01-08-2018
	Professional Practice-II (Communication Skills and Professional Ethics) (16HS47)	01-08-2018
	IPR & Entrepreneurship (16HSI51)	01-08-2018



Programme with Code	Course with Code	Date of Introduction
<b>Electronics and Communication Engineering (ECE)</b>	Communication System I (16EC52)	01-08-2018
	Digital VLSI Design (16EC53)	01-08-2018
	Embedded System Design (16EC54)	01-08-2018
	Digital Signal Processing (16EC55)	01-08-2018
	IPR & Entrepreneurship (16HSI51)	01-08-2018
	Essentials of Management and Economics (16HEM51)	01-08-2018
	Antennas and Wave Propagation (16EC5A1)	01-08-2018
	Transducers & Data Acquisition Systems (16EC5A2)	01-08-2018
	Artificial Neural Networks & Deep Learning (16EC5A3)	01-08-2018
	Modelling of semiconductor devices (16EC5A4)	01-08-2018
	Object Oriented Programming in C++ (16EC5A5)	01-08-2018
	Computer Organization and Architecture (16EC5A6)	01-08-2018
	Robotics (16EC5A7)	01-08-2018
	Foundations of Management & Economics (16HEM61)	01-08-2018
	Communication System II (16EC62)	01-08-2018
	Computer Communication Networks (16EC63)	01-08-2018
	Analog & Mixed Signal IC Design (16EC64)	01-08-2018
	Professional Practice-III (Employability Skills and Professional Development of Engineers) (16HSE68)	01-08-2018
	Cryptography & Network Security (16EC6C1)	01-08-2018
	Real Time Embedded Systems (16EC6C2)	01-08-2018
	Image Processing (16EC6C3)	01-08-2018
	Low power VLSI Design (16EC6C4)	01-08-2018
	Data structure using C++ (16EC6C5)	01-08-2018
	System Programming & Software (16EC6C6)	01-08-2018
	Flexible Electronics (16EC6C7)	01-08-2018
	Optical Fiber Communication & Networks (16EC6D1)	01-08-2018
	ARM Cortex Processors (16EC6D2)	01-08-2018
	Adaptive Signal Processing (16EC6D3)	01-08-2018
	System Verilog (16EC6D4)	01-08-2018
	Algorithm for VLSI Design Automation (16EC6D5)	01-08-2018
	Database Management Systems (DBMS) (16EC6D6)	01-08-2018
	Internet of Things (IoT) (16EC6D7)	01-08-2018
	Microwave & Radiating Systems (16EC71)	01-08-2018
	Broadband Wireless –LTE 4G (16EC72)	01-08-2018
	Mini Project (16EC73)	01-08-2018
	Satellite Communications & GPS (16EC7F1)	01-08-2018
	ARM Programming & Optimization (16EC7F2)	01-08-2018
	Speech Processing (16EC7F3)	01-08-2018
	Radio Frequency Integrated Circuits Design (16EC7F4)	01-08-2018
	High Performance Computing (16EC7F5)	01-08-2018
	Integrated Photonics (16EC7F6)	01-08-2018
	Nanoelectronics (16EC7F7)	01-08-2018
	Radar & Navigation (16EC7G1)	01-08-2018
	Automotive Electronics (16EC7G2)	01-08-2018
	Multimedia Communication (16EC7G3)	01-08-2018
	VLSI Testing for ICs (16EC7G4)	01-08-2018
	High Speed digital design (16EC7G5)	01-08-2018
	MEMS and Smart Systems (16EC7G6)	01-08-2018
	Innovation and Social Skills (16HSS83)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Electronics and Instrumentation Engineering (EIE)</b>	Discrete and Integral Transforms(16MA31B)	01-08-2018
	Environmental Technology (16ET32)	01-08-2018
	Linear IC's and Applications (Theory & Practice) (16EI33)	01-08-2018
	Digital Circuit Design (Theory and Practice) (16EI34)	01-08-2018
	Signals & Systems (16EI35)	01-08-2018
	Measurements and Instrumentation (16EI36)	01-08-2018
	Linear Algebra and Probability Theory (16MA41B)	01-08-2018
	Engineering Materials (16EM42B)	01-08-2018
	Microcontroller & Applications (Theory & Practice) (16EI43)	01-08-2018
	Sensors and Instrumentation (Theory and Practice) (16EI44)	01-08-2018
	Control Systems and Modelling (16EI45)	01-08-2018
	Digital System Design using Verilog (Theory and Practice) (16EI46)	01-08-2018
	Professional Practice-II (Communication Skills & Professional Ethics) (16HS47)	01-08-2018
	Foundations of Management and Economics (16HEM51)	01-08-2018
	VLSI Technology (Theory and Practice) (16EI52)	01-08-2018
	Digital Signal Processing & Applications (Theory and Practice) (16EI53)	01-08-2018
	Non-Linear Control System (16EI54)	01-08-2018
	OOPS with C++ & Data Structure (16EI55)	01-08-2018
	Computer Organization & Architecture (16EI5A1)	01-08-2018
	Biomedical Instrumentation (16EI5A2)	01-08-2018
	Micro Electro Mechanical Systems and Applications (16EI5A3)	01-08-2018
	Image Processing (16EI5A4)	01-08-2018
	Elective B (OE) (16G5BXX)	01-08-2018
	Sensors & Applications (16G5B08)	01-08-2018
	IPR & Entrepreneurship (16HSI61)	01-08-2018
	Virtual Instrumentation & Data acquisition (Theory and Practice) (16EI62)	01-08-2018
	Automatic Process Control and Modelling Techniques (Theory and Practice) (16EI63)	01-08-2018
	Elective C (PE) (16EI6CX)	01-08-2018
	Computer Communication Networks (16EI6C1)	01-08-2018
	Advanced Signal Processing (16EI6C2)	01-08-2018
	Lasers Instrumentation and Application (16EI6C3)	01-08-2018
	Java Programming (16EI6C4)	01-08-2018
	Elective D(PE) (16EI6DX)	01-08-2018
	Analytical Instrumentation (16EI6D1)	01-08-2018
	Automotive Electronics (16EI6D2)	01-08-2018
	Application Specific Integrated Circuits (ASIC) (16EI6D3)	01-08-2018
	Aircraft Instrumentation (16EI6D4)	01-08-2018
	Communication Systems (16EI64)	01-08-2018
	Elective E(OE) (16G6EXX)	01-08-2018
	Virtual Instrumentation (16G6EXX)	01-08-2018
	Professional Practice-III (Employability Skills and Professional Development of Engineers) (16HS68)	01-08-2018
	Industrial Automation Technology (Theory and Practice) (16EI71)	01-08-2018
	ARM Processor (Theory and Practice) (16EI72)	01-08-2018
	Mini Project (16EI73)	01-08-2018



Programme with Code	Course with Code	Date of Introduction
<b>Electronics and Instrumentation Engineering (EIE)</b>	Elective F (PE) (16EI7FX)	01-08-2018
	Optimization Techniques (16EI7F1)	01-08-2018
	Robotics (16EI7F2)	01-08-2018
	Product Design Technology (16EI7F3)	01-08-2018
	Real time Operating systems (RTOS) (16EI7F4)	01-08-2018
	Elective G(PE) (16EI7GX)	01-08-2018
	Simulation & Modelling (16EI7G1)	01-08-2018
	System on Chip (SoC) (16EI7G2)	01-08-2018
	Safety Instrumentation (16EI7G3)	01-08-2018
	Wireless Instrumentation (16EI7G4)	01-08-2018
	Elective H (OE) (16G7HXX)	01-08-2018
	MEMS and Application (16G7H08 )	01-08-2018
	Major Project (16EIP81)	01-08-2018
	Technical Seminar (16EIS82)	01-08-2018
	Innovation and Social Skills (16HSS83)	01-08-2018
<b>Industrial Engineering and Management (IEM)</b>	Engineering Materials(16EM32B)	01-08-2018
	Mechanics of Materials(16ME33)	01-08-2018
	Principles of Fluid Mechanics and Thermodynamics(16IM34)	01-08-2018
	Measurements & Metrology(16IM35)	01-08-2018
	Manufacturing Processes(16IM36)	01-08-2018
	Basic of Machine Design & Drawing(16IM41)	01-08-2018
	Environmental Technology(16ET42)	01-08-2018
	Engineering Statistics(16IM43)	01-08-2018
	Computer Integrated Manufacturing(16IM44)	01-08-2018
	Design of Work Systems(16IM45)	01-08-2018
	Operations Research(16IM46)	01-08-2018
	Professional Practice-II (Team Work and Professional Ethics) (16HS47)	01-08-2018
	Foundations of Management & Economics(16HEM51)	01-08-2018
	Industrial Ergonomics(16IM52)	01-08-2018
	Quality and Reliability Engineering(16IM53)	01-08-2018
	Simulation Modelling and Analysis(16IM54)	01-08-2018
	Operations Management(16IM55)	01-08-2018
	Advanced Manufacturing Processes(16IM5A1)	01-08-2018
	Methodologies for Quality Improvement(16IM5A2)	01-08-2018
	Advanced Operations Research(16IM5A3)	01-08-2018
	Marketing Management & Research(16IM5A4)	01-08-2018
	Software Engineering & Testing(16IM5A5)	01-08-2018
	Intellectual Property Rights & Entrepreneurship (16HSI61)	01-08-2018
	Enterprise Information Systems(16IM62)	01-08-2018
	Facilities Planning and Design(16IM63)	01-08-2018
	Supply Chain & Logistics Management(16IM64)	01-08-2018
	Digital Manufacturing(16IM6C1)	01-08-2018
	Services Operations Management(16IM6C2)	01-08-2018
	Reliability Engineering(16IM6C3)	01-08-2018
	Financial Management(16IM6C4)	01-08-2018
	Data Mining Technologies(16IM6C5)	01-08-2018
	3-D Metrology(16IM6C6)	01-08-2018
	Systems Engineering(16IM6D1)	01-08-2018
	Cognitive Ergonomics(16IM6D2)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Industrial Engineering and Management (IEM)</b>	Design of Experiments(16IM6D3)	01-08-2018
	Human Resource Management & Development (16IM6D4)	01-08-2018
	E-Commerce(16IM6D5)	01-08-2018
	User Interface Design(16IM6D6)	01-08-2018
	Principles of Soft Computing(16IM71)	01-08-2018
	Financial Accounting and Costing(16IM73)	01-08-2018
	Product Design and Development(16IM73)	01-08-2018
	Foundations of Business Analytics(16IM74)	01-08-2018
	Industry 4.0 – A Growth in Manufacturing (16IM7F1)	01-08-2018
	Retail Supply Chain Management (16IM7F2)	01-08-2018
	Big Data Analytics (16IM7F3)	01-08-2018
	Technology Management (16IM7F4)	01-08-2018
	Supply Chain Technologies (16IM7F5)	01-08-2018
	Additive Manufacturing Methods (16IM7G1)	01-08-2018
	Lean Manufacturing Systems (16IM7G2)	01-08-2018
	Engineering Optimization (16IM7G3)	01-08-2018
	Energy Management (16IM7G4)	01-08-2018
	Predictive Analytics (16IM7G5)	01-08-2018
	Major Project (16IM81)	01-08-2018
	Technical Seminar (16IM82)	01-08-2018
	Innovation and Social Skills (16HS83)	01-08-2018

<b>Information Science and Engineering (ISE)</b>	Fourier series, Laplace Transforms and Linear Algebra (16MA31A )	01-08-2018
	Biology for Engineers (16EB32)	01-08-2018
	Discrete Mathematical Structures (16IS33)	01-08-2018
	Computer Organization and Architecture (16IS34)	01-08-2018
	Data Structures and File Structures(16IS35)	01-08-2018
	Object Oriented Programming using C++(16IS36)	01-08-2018
	Graph & Probability Theory(16MA41A)	01-08-2018
	Environmental Technology(16ET42)	01-08-2018
	Operating Systems(16IS43)	01-08-2018
	Design and Analysis of Algorithms(16IS44)	01-08-2018
	Micro controllers and Embedded Systems(16IS45)	01-08-2018
	Unix System Programming(16IS46)	01-08-2018
	Professional Practice-II (Team Work and Professional Ethics (16HSE47 )	
	Bridge Course Mathematics(16DMA48)	01-08-2018
	IPR & Entrepreneurship (16HSI51)	01-08-2018
	Theory of Computation(16IS52)	01-08-2018
	Computer Networks(16IS53)	01-08-2018
	Introduction to Parallel Programming (16IS54)	01-08-2018
	System Software(16IS55)	01-08-2018
	Elective A (PE)( 16IS5AX)	01-08-2018
	Elective B (OE)( 16GB5XX)	01-08-2018
	Foundations of Management & Economics(16HEM61 )	01-08-2018
	Web Programming(16IS62)	01-08-2018
	Software Engineering and Testing(16IS63)	01-08-2018
	Database Management System(16IS64)	01-08-2018
	Elective C (PE)( 16IS6CX)	01-08-2018
	Elective D (PE)( 16IS6DX)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
	Elective E(O E)( 16GE6XX)	01-08-2018
	Professional Practice-III (Employability Skills and Professional Development of Engineers)( 16HSE68 )	01-08-2018
	Human Computer Interaction (16IS71)	01-08-2018
	Data Science and Engineering(16IS72)	01-08-2018
	Cryptography and Network Security(16IS73)	01-08-2018
	Elective F (PE)( 16IS7FX)	01-08-2018
	Elective G(PE)( 16IS7GX)	01-08-2018
	Elective H (OE)( 16G7HXX)	01-08-2018
	Major Project(16ISP81)	01-08-2018
	Technical Seminar(16ISS82)	01-08-2018
	Innovation and Social Skills(16HSS83)	01-08-2018
<b>Mechanical Engineering (ME)</b>	Engineering Materials (16EM32B)	01-08-2018
	Mechanics of Materials (16ME33)	01-08-2018
	Thermal Engineering – I (16ME34)	01-08-2018
	Fluid Mechanics (16ME35)	01-08-2018
	Manufacturing Processes – I (16ME36)	01-08-2018
	Environmental Technology (16ET42)	01-08-2018
	Metrology and Measurements (16ME43)	01-08-2018
	Kinematics of Machines (16ME44)	01-08-2018
	Thermal Engineering II (16ME45)	01-08-2018
	Manufacturing Processes II (16ME46)	01-08-2018
	Professional Practice-II (Team Work & Professional Ethics) (16HS47)	01-08-2018
	Foundations of Management and Economics (16HEM51)	01-08-2018
	Design of Machine Elements – I (16ME52/16IM52)	01-08-2018
	Heat and Mass Transfer (16ME53)	01-08-2018
	CAD/CAM (16ME54)	01-08-2018
	Dynamics of Machines (16ME55)	01-08-2018
	Mechanics of Composite Materials (16ME5A1)	01-08-2018
	Industrial Robotics (16ME5A2)	01-08-2018
	Refrigeration and Air conditioning (16ME5A3)	01-08-2018
	Advanced Solid Mechanics (16ME5A4)	01-08-2018
	IPR & Entrepreneurship (16HSI61)	01-08-2018
	Design of Machine Elements II (16ME62)	01-08-2018
	Turbo machinery (16ME63)	01-08-2018
	Finite Element Methods (16ME64)	01-08-2018
	Professional Practice-III (Employability Skills and Professional Development of Engineers) (16HS68)	01-08-2018
	Hydraulics and Pneumatics (16ME6C1)	01-08-2018
	Computational Fluid Dynamics (16ME6C2)	01-08-2018
	Energy Conversion Engineering (16ME6C3)	01-08-2018
	Advanced Machine Design (16ME6C4)	01-08-2018
	Product Design and Development (16ME6C5)	01-08-2018
	Gas dynamics and Combustion (16ME6D1)	01-08-2018
	Non Traditional Processes (16ME6D2)	01-08-2018
	Theory of Plates and Shells (16ME6D3)	01-08-2018
	Cutting Tool Design (16ME6D4)	01-08-2018
	Quality Assurance (16ME6D5)	01-08-2018
	Automotive Engineering (16GE6XX)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Mechanical Engineering (ME)</b>	Minor Project (16ME71)	01-08-2018
	Mechanical Vibrations (16ME72)	01-08-2018
	Control Engineering (16ME73)	01-08-2018
	Automotive Systems Engineering(16ME7F1)	01-08-2018
	Advanced Mechanisms Design (16ME7F2)	01-08-2018
	Non-Linear Finite Element Methods (16ME7F3)	01-08-2018
	Design of Heat Exchangers (16ME7F4)	01-08-2018
	Advanced Manufacturing Practices (16ME7G1)	01-08-2018
	Design for Manufacturing and Assembly (16ME7G2)	01-08-2018
	Plastic Mould Design (16ME7G3)	01-08-2018
	Engineering Systems Design (16ME7G4)	01-08-2018
	Industry 4.0 – Smart Manufacturing for the Future (16GH7XX)	01-08-2018
	Major Project (16MEP81)	01-08-2018
	Technical Seminar (16MES82)	01-08-2018
	Innovation and Social Skills (16HSS83)	01-08-2018
<b>Telecommunication Engineering (TE)</b>	Discrete and Integral Transforms (16MA31B)	01-08-2018
	Environmental Technology (16ET32)	01-08-2018
	Analog Electronic Circuits (16TE33)	01-08-2018
	Digital Electronics Circuits (16TE34)	01-08-2018
	Network Analysis (16TE35)	01-08-2018
	Fields and Waves (16TE36)	01-08-2018
	Linear Algebra & Probability Theory (16MA41B)	01-08-2018
	Engineering Materials (16EM42B)	01-08-2018
	Analog Communication (16TE43)	01-08-2018
	Signals and Systems (16TE44)	01-08-2018
	Microprocessor and Microcontrollers (16TE45)	01-08-2018
	Data Structures Using C++ (16TE46)	01-08-2018
	Professional Practice-II (Team Work and Professional Ethics) (16HS47)	01-08-2018
	IPR & Entrepreneurship (16HSI51)	01-08-2018
	Digital Signal Processing (16TE52)	01-08-2018
	Digital Communication (16TE53)	01-08-2018
	Telecom Switching System (16TE54)	01-08-2018
	Microwave Engineering (16TE55)	01-08-2018
	Digital Design and Verification using Verilog (16TE5A1)	01-08-2018
	Control Systems (16TE5A2)	01-08-2018
	Video Engineering/Digital Video Broadcasting (16TE5A3)	01-08-2018
	Computer Organization and Architecture (16TE5A4)	01-08-2018
	Foundations of Management & Economics (16HEM61)	01-08-2018
	Computer Communication Networks (16TE62)	01-08-2018
	Information Theory& Coding (16TE63)	01-08-2018
	Radiating Systems (16TE64)	01-08-2018
	Elective C (PE) (16TE6CX)	01-08-2018
	Elective D (PE) (16TE6DX)	01-08-2018
	Elective E(O E) (16G6XX)	01-08-2018
	Professional Practice-III (Employability Skills and Professional Development of Engineers) (16HS68)	01-08-2018
	CMOS Circuit Design (16TE6C1)	01-08-2018
	ARM Processor (16TE6C2)	01-08-2018
	Multimedia Communication (16TE6C3)	01-08-2018
	Operating Systems (16TE6C4)	01-08-2018

Programme with Code	Course with Code	Date of Introduction
<b>Telecommunication Engineering (TE)</b>	Microwave Integrated Circuits (16TE6D1)	01-08-2018
	Digital Signal Processor Architecture (16TE6D2)	01-08-2018
	Cryptography and Network Security (16TE6D3)	01-08-2018
	JAVA (16TE6D4)	01-08-2018
	Mobile Network System and standards (16G6BXX)	01-08-2018
	Wireless And Mobile Communication (16TE71)	01-08-2018
	Optical Fiber Communication (16TE72)	01-08-2018
	Minor Project (16TE73)	01-08-2018
	ASIC Design (16TE7F1)	01-08-2018
	Digital Image Processing (16TE7F2)	01-08-2018
	Satellite Communication (16TE7F3)	01-08-2018
	Real Time Embedded systems (16TE7F4)	01-08-2018
	Cellular Mobile Network (16TE7G1)	01-08-2018
	DSP Applications (16TE7G2)	01-08-2018
	Adhoc Networks (16TE7G3)	01-08-2018
	IoT (16TE7G4)	01-08-2018
	Space Technology and Applications (16GH7XX)	01-08-2018
	Nanotechnology (16G7H01)	01-08-2018
	Industrial Safety and Risk Management (16G7H02)	01-08-2018
	Intelligent Transportation Systems (16G7H03)	01-08-2018
	Intelligent Systems (16G7H04)	01-08-2018
	Image Processing & Machine Learning (16G7H05)	01-08-2018
	Design Of Renewable Energy Systems (16G7H06)	01-08-2018
	Systems Engineering (16G7H07)	01-08-2018
	MEMS and Applications (16G7H08)	01-08-2018
	Introduction to Internet of Things (16G7H09)	01-08-2018
	Industry 4.0 – Smart Manufacturing For The Future (16G7H10)	01-08-2018
	Space Technology And Applications (16G7H11)	01-08-2018
	Major Project (16TEP81)	01-08-2018
	Technical Seminar (16TES82)	01-08-2018
	Innovation and Social Skills (16HSS83)	01-08-2018
<b>Master of Computer Applications</b>	Data Structures (Theory and Practice) ( 16MCA11)	01-09-2018
	Operating Systems (Theory and Practice) ( 16MCA12)	01-09-2018
	Web Technologies (Theory and Practice) ( 16MCA13)	01-09-2018
	Computer Organization and Architecture (16MCA14)	01-09-2018
	16MAT15 Discrete Mathematics	01-09-2018
	Database Systems (Theory and Practice) (16MCA21)	01-09-2018
	Object Oriented Programming (Theory and Practice) (16MCA22)	01-09-2018
	Analysis and Design of Algorithms (Theory and Practice) ( 16MCA23)	01-09-2018
	Software Engineering (16MCA24)	01-09-2018
	Management Information System and E-Commerce (16MCA25)	01-09-2018
<b>Master of Computer Applications (MCA)</b>	Computer Networks (Theory and Practice) (16MCA31)	01-09-2018
	Software Testing and Practices (Theory and Practice) (16MCA32)	01-09-2018
	Elective-1 (Theory and Practice)( 16MCA33X)	01-09-2018
	Elective-2(16MCA34X)	01-09-2018

Programme with Code	Course with Code	Date of Introduction
<b>Master of Computer Applications (MCA)</b>	Research Methodology(16MCA35)	01-09-2018
	Enterprise Application Programming (Theory & Practice) (16MCA41)	01-09-2018
	Elective-3 (Theory and Practice )( 16MCA42X)	01-09-2018
	Elective-4(16MCA43X)	01-09-2018
	Software Project Management(16MCA44)	01-09-2018
	Business Communication(16MCA45)	01-09-2018
	Minor Project-I(16MCA46)	01-09-2018
	Data Analytics (Theory and Practice)( 16MCA51)	01-09-2018
	Elective - 5 (Theory and Practice)( 16MCA52X)	01-09-2018
	Elective – 6(16MCA53X)	01-09-2018
	Elective – 7(16MCA54X)	01-09-2018
	Minor Project II(16MCA55)	01-09-2018
	Major Project(16MCA61)	01-09-2018
	Seminar(16MCA62)	01-09-2018
<b>M.Tech in Biotechnology (MBT)</b>	Project Management(16MEM11P)	01-09-2018
	Advanced Biostatistics(16MBT12)	01-09-2018
	Recombinant DNA Technology (Theory & Practice) (16MBT13)	01-09-2018
	Computational Biology(16MBT14)	01-09-2018
	Genomics, Proteomics and Microarray(16MBT151)	01-09-2018
	Enzyme Technology(16MBT152)	01-09-2018
	Professional Skill Development(16HSS16)	01-09-2018
	Research Methodology(16MEM21R)	01-09-2018
	Upstream Processing (Theory and Practice) ( 16MBT22)	01-09-2018
	Immunotechnology.( 16MBT231)	01-09-2018
	Nanobiotechnology.( 16MBT232)	01-09-2018
	Pharmaceutical iotechnology(16MBT241)	01-09-2018
	Agricultural Biotechnology(16MBT242)	01-09-2018
	Recombinant DNA Products(16MBT251)	01-09-2018
	Bioreactor Engineering(16MBT252)	01-09-2018
	Minor Project(16MBT26)	01-09-2018
<b>M.Tech in Biotechnology (MBT)</b>	Downstream Processing & Product Recovery (Theory and Practice) ( 16MBT31)	01-09-2018
	Stem Cell and Tissue Engineering(16MBT321)	01-09-2018
	Food process technology(16MBT322)	01-09-2018
	Human Diseases and Diagnostics (16MBT331)	01-09-2018
	Bioprocess Optimization, Modelling & Simulation (16MBT33)	01-09-2018
	Regulatory Affairs & Bio business(16MBT341)	01-09-2018
	Biodevices.( 16MBT342)	01-09-2018
	Internship / Industrial Training(16MBT35)	01-09-2018
	Technical Seminar(16MBT36)	01-09-2018
	Major Project(16MBT41)	01-09-2018
	Seminar(16MBT42)	01-09-2018



Programme with Code	Course with Code	Date of Introduction
<b>M.Tech in Computer Integrated Manufacturing (MCM)</b>	Project Management(16MEM11P)	01-09-2018
	Probability & Statistics for Engineers (16MAT12B)	01-09-2018
	Computer Control of Manufacturing Systems (Theory & Practice) (16MCM13)	01-09-2018
	Computer Aided Design(16MCM14)	01-09-2018
	Digital Manufacturing(16MCM151)	01-09-2018
	Hydraulic and Pneumatic Systems(16MCM152)	01-09-2018
	Professional Skill Development(16HSS16)	01-09-2018
	Research Methodology(16MEM21R)	01-09-2018
	Mechatronic Systems (Theory & Practice) (16MCM22)	01-09-2018
	Non Traditional Machining and Testing (16MCM231 / 16MTE231)	01-09-2018
	Design of Machine Tools(16MPD232/16MCM232)	01-09-2018
	Tooling for Manufacture in Automation (16MCM241/16MTE241)	01-09-2018
	Industrial Robotics(16MMD242/16MCM242)	01-09-2018
	Automation and Production Systems(16MCM251)	01-09-2018
	Computer Aided Process Planning(16MCM252)	01-09-2018
	Minor Project(16MCM26)	01-09-2018
	Computational Methods(Theory & Practice) (16MCM31)	01-09-2018
	Additive Manufacturing Technology(16MCM321)	01-09-2018
	Product Data Management(16MCM322)	01-09-2018
	Modelling and Simulation of Manufacturing Systems (16MCM331)	01-09-2018
	Design for Manufacture and Assembly (16MCM332 /16MTE332)	01-09-2018
	Micro and Nano Manufacturing(16MCM341)	01-09-2018
	Applied Metrology & Quality Control (16MCM342 /16MTE342)	01-09-2018
	Internship/Industrial Training(16MCM35)	01-09-2018
	Technical Seminar(16MCM36)	01-09-2018
	Major Project(16MCM41)	01-09-2018
	Seminar(16MCM42)	01-09-2018
<b>M.Tech in Communication Systems (MCS)</b>	Probability Theory & Linear Algebra (18MAT11B)	01-09-2018
	Advanced Communications Systems -1(18MCS12)	01-09-2018
	Advanced Communication Networks & Protocols (18MCS13)	01-09-2018
	Advanced Embedded Systems(18MCS141)	01-09-2018
	Advanced Digital Signal Processing(18MCS142)	01-09-2018
	RF and Microwave Circuits(18MCS143)	01-09-2018
	MEMS and Smart Systems(18MVE151)	01-09-2018
	Digital Image Processing(18MCS152)	01-09-2018
	Cryptography and Network Security(18MCS153)	01-09-2018
	Professional Skill Development (18HSS16)	01-09-2018
	Advanced Communications Systems -2(18MCS21)	01-09-2018
	Error Control and Coding(18MCS22)	01-09-2018
	Research Methodology(18IEM23)	01-09-2018
	Antenna Theory(18MCS241)	01-09-2018
	Machine Learning(18MCS242)	01-09-2018
	Optical Communication Networks(18MCS243)	01-09-2018
	Wireless Sensor Networks and IOT(18MCS251)	01-09-2018
	Deep Learning(18MCE252)	01-09-2018
	VLSI Digital Signal Processing Systems(18MVE253)	01-09-2018



Programme with Code	Course with Code	Date of Introduction
<b>M.Tech in Communication Systems (MCS)</b>	Business Analytics(18 GCS261)	01-09-2018
	Industrial & Occupational Health and Safety (18 GCV262)	01-09-2018
	Modelling Using Linear Programming(18 GIM263)	01-09-2018
	Project Management (18 GIM264)	01-09-2018
	Energy Management (18 GCH265)	01-09-2018
	Industrial 4.0(18GME266)	01-09-2018
	Advanced Materials (18GME267)	01-09-2018
	Smart Antenna Signal Processing(18MCS31)	01-09-2018
	Wireless Cellular and LTE 4G Broadband (18MCS321)	01-09-2018
	Wire line Broadband Communications(18MCS322)	01-09-2018
	Wireless LAN(18MCS323)	01-09-2018
	Internship(18MCS33)	01-09-2018
	Dissertation Phase I(18MCS34)	01-09-2018
	Dissertation Phase II(18MCS41)	01-09-2018
	Technical Seminar(18MCS42)	01-09-2018
<b>M.Tech in VLSI Design &amp; Embedded Systems (MVD)</b>	Digital System Design using Verilog(18MVE11)	01-09-2018
	Advanced Embedded System Design (18MVE12)	01-09-2018
	Digital IC Design (18MVE13)	01-09-2018
	Advanced Computer Architecture(18MVE141)	01-09-2018
	ASIC Design(18MVE142)	01-09-2018
	Algorithms for VLSI Design(18MVE143)	01-09-2018
	MEMS and Smart Systems(18MVE151)	01-09-2018
	System On Chip Design(18MVE152)	01-09-2018
	Advanced VLSI Devices(18MVE153)	01-09-2018
	Professional Skill Development (18HSS16)	01-09-2018
	Analog IC Design(18MVE 21)	01-09-2018
	System Verilog for Design & Verification(18MVE 22)	01-09-2018
	Research Methodology(18IEM23)	01-09-2018
	VLSI Testing(18MVE241)	01-09-2018
	Machine Learning (18MCS242)	01-09-2018
	High speed VLSI Design(18MVE243)	01-09-2018
	Low Power VLSI Design(18MVE251)	01-09-2018
	Advanced Embedded Processors(18MVE252)	01-09-2018
	VLSI Digital Signal Processing Systems(18MVE253)	01-09-2018
	Business Analytics(18 GCS261)	01-09-2018
	Industrial & Occupational Health and Safety (18GCV262)	01-09-2018
	Modeling Using Linear Programing (18GIM263)	01-09-2018
	Project Management (18 GIM264)	01-09-2018
	Energy Management (18 GCH265)	01-09-2018
	Industrial 4.0(18GME266)	01-09-2018
	Advanced Materials (18GME267)	01-09-2018
	Minor Project(18MVE27)	01-09-2018
	Synthesis & Optimization of Digital Circuits(18MVE31)	01-09-2018
	Radio Frequency IC Design (18MVE321)	01-09-2018
	ARM Programming and Optimization(18MVE322)	01-09-2018
	Static Timing Analysis(18MVE323)	01-09-2018
	Internship(18MVE33)	01-09-2018
	Dissertation Phase I(18MVE34)	01-09-2018
	Dissertation Phase II(18MVE41)	01-09-2018
	Technical Seminar(18MVE42)	01-09-2018

Programme with Code	Course with Code	Date of Introduction
<b>M.Tech in Computer Network &amp; Engineering (MCN)</b>	Probability Theory and Linear Algebra(18MAT11B)	01-09-2018
	Information and Network Security (18MCN12)	01-09-2018
	Advances in Computer Networks 9(18MCN13)	01-09-2018
	Wireless Ad-Hoc and Sensor Networks(18 MCN 141)	01-09-2018
	Data Management Essentials(18MCN 142)	01-09-2018
	Applied Cryptography(18MCN 143/ 18 MCE 143)	01-09-2018
	Cloud Computing Technology(18MCN151/ 18MCE151)	01-09-2018
	Information Coding(18 MCN 152)	01-09-2018
	Wireless Network Security(18 MCN 153/ 18 MCE 153)	01-09-2018
	Professional Skills Development (18HSS16)	01-09-2018
	Wireless Communication Technologies(18MCN21)	01-09-2018
	Advances in Network Management(18MCN22)	01-09-2018
	Research Methodology(18IEM23)	01-09-2018
	Network Routing and Protocols(18 MCN 241)	01-09-2018
	Machine Learning (18MCN242/ 18MSC242/18MBI242 /18MDC242)	01-09-2018
	Cloud Security(18 MCN 243 / 18 MCE 243)	01-09-2018
	Internet of Things & Applications (18MCN251/18MCE251)	01-09-2018
	Advances in Algorithms(18 MCN 252)	01-09-2018
	Security Engineering(18 MCN 253/ 18 MCE 253)	01-09-2018
	Business Analytics(18 GCS 261)	01-09-2018
	Industrial & Occupational Health and Safety (18GCV262)	01-09-2018
	Modeling Using Linear Programing(18 GIM 263)	01-09-2018
	Project Management (18 GIM 264)	01-09-2018
	Energy Management (18 GCH 265)	01-09-2018
	Industry 4.0(18 GME 266)	01-09-2018
	Advanced Materials (18 GME 267)	01-09-2018
	Minor Project(18MCN27)	01-09-2018
	High Speed Networks(18MCN31)	01-09-2018
	Software Defined Systems(18 MCN 321/ 18 MCE 321)	01-09-2018
	Secure Software Design(18 MCN 322)	01-09-2018
	Cyber Security(18MCN 323/ 18 MCE 323)	01-09-2018
	Internship(18MCN33)	01-09-2018
	Dissertation Phase I(18MCN34)	01-09-2018
	Dissertation Phase II(18MCN41)	01-09-2018
	Technical Seminar(18MCN42)	01-09-2018
<b>M.Tech in Computer Science &amp; Engineering (MCE)</b>	Probability Theory and Linear Algebra(18MAT11B)	01-09-2018
	Advances in Algorithms and Applications (18MCE12)	01-09-2018
	Data Science (18MCE13)	01-09-2018
	Computer Network Technologies(18MCE141)	01-09-2018
	Data Preparation and Analysis (18MCE142)	01-09-2018
	Applied Cryptography(18MCE143/ 18MCN143)	01-09-2018
	Cloud Computing Technology(18MCE151 / 18MCN151)	01-09-2018
	Intelligent Systems (18MCE152 / 18MMD152 / 18MCM152)	01-09-2018
	Wireless Network Security(18MCE153/ 18MCN153)	01-09-2018
	Professional Skills Development (18HSS16)	01-09-2018
	Big Data Analytics(18MCE21)	01-09-2018
	Parallel Computer Architecture(18MCE22)	01-09-2018
	Research Methodology(18 IEM 23)	01-09-2018
	Wireless and Mobile Networks(18 MCE 241)	01-09-2018
	Natural Language Processing(18 MCE 242)	01-09-2018

Programme with Code	Course with Code	Date of Introduction
<b>M.Tech in Computer Science &amp; Engineering (MCE)</b>	Cloud Security (18 MCE 243 / 18 MCN 243)	01-09-2018
	Internet of Things & Applications(18MCE251 / 18MCN251)	01-09-2018
	Deep Learning(18MCE252/18MCS252)	01-09-2018
	Security Engineering(18 MCE 253 / 18 MCN 253)	01-09-2018
	Business Analytics(18 GCS 261)	01-09-2018
	Industrial & Occupational Health And Safety (18GCV262)	01-09-2018
	Modeling Using Linear Programing(18 GIM 263)	01-09-2018
	Project Management (18 GIM 264)	01-09-2018
	Energy Management (18 GCH 265)	01-09-2018
	Industry 4.0(18 GME 266)	01-09-2018
	Advanced Materials (18 GME 267)	01-09-2018
	Minor Project(18MCE27)	01-09-2018
	Operating System Design(18MCE31)	01-09-2018
	Software Defined Systems(18MCE321 / 18MCN321)	01-09-2018
	Web Analytics and Development(18MCE322)	01-09-2018
	Cyber Security(18MCE323/ 18MCN323)	01-09-2018
	Internship(18MCE33)	01-09-2018
	Dissertation Phase I(18MCE34)	01-09-2018
	Dissertation Phase II(18MCE41)	01-09-2018
	Technical Seminar(18MCE42)	01-09-2018
<b>M.Tech in Product Design &amp; Manufacturing (MPD)</b>	Applied Mathematics (18 MAT11A)	01-09-2018
	Product Design & Development (18 MPD12)	01-09-2018
	Finite Element Analysis(18MPD13)	01-09-2018
	Product Design for Quality (18MPD141/ 18MMD141/ 18MCM141)	01-09-2018
	Tribology (18MPD142/ 18MMD142/ 18MCM142)	01-09-2018
	Design of Hydraulic & Pneumatic Systems (18MPD143/ 18MMD143/ 18MCM143)	01-09-2018
	Professional Skills Development (18HSS16)	01-09-2018
	Robust Design(18 MPD 21)	01-09-2018
	Product Life Cycle Management(18 MPD22)	01-09-2018
	Research Methodology (18 IEM23)	01-09-2018
	Creative Engineering (18 MPD 241)	01-09-2018
	Artificial Intelligence(18 MPD 242/ 18 MDC 242)	01-09-2018
	Reliability Engineering (18 MPD 243)	01-09-2018
	Product Cost Analysis & Optimization (18 MPD 251)	01-09-2018
	Robotics & Automation(18 MPD 252 / 18 MCM 252)	01-09-2018
	Systems Engineering (18 MPD 253)	01-09-2018
	Business Analytics(18 GCS261)	01-09-2018
	Industrial Safety (18 GCV 262)	01-09-2018
	Modeling Using Linear Programing(18 GIM263)	01-09-2018
	Project Management (18 GIM264)	01-09-2018
	Energy Management (18 GCH 265)	01-09-2018
	Industrial 4.0(18 GME 266)	01-09-2018
	Advanced Materials (18 GME 267)	01-09-2018
	Advanced Materials & Processes (18 MPD 31)	01-09-2018
	Reverse Engineering (18 MPD 321)	01-09-2018
	Digital Manufacturing Technologies (18 MPD 322)	01-09-2018
	Advanced Manufacturing Practices (18MPD323/ 18MCM323)	01-09-2018
	Internship(18 MPD 33)	01-09-2018
	Dissertation Phase I & II (18 MPD 34 / 18MPD41)	01-09-2018
	Technical Seminar(18MPD42)	01-09-2018

Programme with Code	Course with Code	Date of Introduction
<b>M.Tech in Machine Design (MMD)</b>	Engineering Design Optimization (18MAT 11)	01-09-2018
	Mechanics of composite materials(18MMD12)	01-09-2018
	Kinematics and dynamics of mechanisms(18MMD13)	01-09-2018
	Product Design for Quality(18MMD 141)	01-09-2018
	Tribology(18MMD 142)	01-09-2018
	Design of Hydraulic & Pneumatic Systems(18MMD 143)	01-09-2018
	Product Data Management(18MMD 151)	01-09-2018
	Design for Manufacture and Assembly(18MMD 152)	01-09-2018
	Advanced NTM(18MMD 153)	01-09-2018
	Advance Theory of Vibration (18MMD 21)	01-09-2018
	Advanced Solid Mechanics(18 MMD 22)	01-09-2018
	Research Methodology (18 MMD 23)	01-09-2018
	Theory of Plates and Shells(18MMD241)	01-09-2018
	Engineering Intelligence System (18MMD242)	01-09-2018
	Computer Applications in Design(18MMD243)	01-09-2018
	Advanced Machine Design(18MMD251)	01-09-2018
	Robotics and Automation(18MMD252)	01-09-2018
	Advanced Finite Element Analysis(18MMD253)	01-09-2018
	Composite Materials (18 MMD 261)	01-09-2018
	Operations Research (18 XXX 262)	01-09-2018
	Energy Management (18 XXX 263)	01-09-2018
	Industry 4.0(18 XXX 264)	01-09-2018
	Project Management(18 XXX 265)	01-09-2018
	Business Analytics (18 XXX 266)	01-09-2018
	Minor Project (18 MMD 27)	01-09-2018
	Fracture Mechanics (18 MMD 31)	01-09-2018
	Mechatronics System Design(18MCM32X)	01-09-2018
	Surface Engineering(18MCM32X)	01-09-2018
	Experimental Mechanics(18MCM32X)	01-09-2018
	Internship(18 MMD 33)	01-09-2018
	Dissertation Phase I(18 MMD 34)	01-09-2018
	Dissertation Phase II(18 MMD 41)	01-09-2018
	Technical Seminar(18 MMD 42)	01-09-2018
<b>M.Tech in Highway Technology (MHT)</b>	Project Management(16MEM11P)	01-09-2018
	Highway Materials(16MHT12)	01-09-2018
	Pavement Analysis and Design(16MHT13)	01-09-2018
	Traffic Engineering(16MHT14)	01-09-2018
	Applied Geotechnology for Highway Engineers (16MHT151)	01-09-2018
	Highway Geometric Design(16MHT152)	01-09-2018
	Professional Skill Development(16HSS16)	01-09-2018
	Research Methodology(16MEM21R)	01-09-2018
	Highway Construction and Maintenance(16MHT22)	01-09-2018
	Highway Economics(16MHT231)	01-09-2018
	Road Projects(16MHT241)	01-09-2018
	Road Construction Planning & Management (16MHT251)	01-09-2018
	Urban Public Transport(16MHT232)	01-09-2018
	Road Safety Engineering(16MHT242)	01-09-2018
	Road Construction Equipment(16MHT252)	01-09-2018
	Minor Project (in-house)( 16MHT26)	01-09-2018
	Pavement Deterioration & Evaluation (Theory & Practice) (16MHT31)	01-09-2018

Programme with Code	Course with Code	Date of Introduction
<b>M.Tech in Highway Technology (MHT)</b>	Pavement Management System(16MHT321)	01-09-2018
	Intelligent Transport System(16MHT322)	01-09-2018
	Special Problems in Road Construction(16MHT331)	01-09-2018
	Transportation Planning(16MHT332)	01-09-2018
	Design of Bridges, flyovers and Grade Separators (16MHT341/16MST341)	01-09-2018
	Earth Retaining structures (16MHT342/16MST342)	01-09-2018
	Internship/ Industrial Training(16MHT35)	01-09-2018
	Technical Seminar(16MHT36)	01-09-2018
	Major Project(16MHT41)	01-09-2018
	Seminar(16MHT42)	01-09-2018

<b>M.Tech in Structural Engineering (MST)</b>	Project Management(16MEM11P)	01-09-2018
	Matrix Analysis of Structures(16MST12)	01-09-2018
	Advanced Design of RCC Structures(16MST13)	01-09-2018
	Mechanics of Deformable Bodies(16 MST 14)	01-09-2018
	Advanced Design of Steel Structures(16MST151)	01-09-2018
	Structural Masonry (16MST152)	01-09-2018
	Professional Skill Development(16HSS16)	01-09-2018
	Research Methodology(16MEM21R)	01-09-2018
	Structural Dynamics(16 MST 22)	01-09-2018
	Structural Reliability(16MST231)	01-09-2018
	Advanced Pre-stressed Concrete(16MST241)	01-09-2018
	Design of Plates and Shells (16MST251)	01-09-2018
	Repair and Rehabilitation of Structures(16MST232)	01-09-2018
	Design of Substructures(16MST242)	01-09-2018
	Finite Element Method of Analysis(16MST252)	01-09-2018
	Minor Project (in-house)( 16MST26)	01-09-2018
	Special Concretes(16 MST 31)	01-09-2018
	Earthquake Resistant Structures(16MST321)	01-09-2018
	Pre cast structures(16MST322)	01-09-2018
	Stability of structures (16MST331)	01-09-2018
	Advanced Structural Analysis(16MST332)	01-09-2018
	Design of Bridges, flyovers and grade separators (16MHT341/16MST341)	01-09-2018
	Earth Retaining Structures (16MHT342/16MST342)	01-09-2018
	Internship/ Industrial Training(16MST35)	01-09-2018
	Technical Seminar(16MST36)	01-09-2018
	Major Project(16 MST 41)	01-09-2018
	Seminar(16 MST 42)	01-09-2018

## 1.2 Academic Flexibility

### 1.2.1 New programmes/courses introduced during the Academic year

Program Code	Program Name	Course Code & Course Name	Year of Introduction
MST	Master of Technology in Structural Engineering	18MAT11A	2018-19
MHT	Master of Technology in Highway Technology	Applied Mathematics &	
MPE	Master of Technology in Power Electronics		
MBT	Master of Technology in Bio Technology	18MAT2G10	
MMD	Master of Technology in Machine Design	Advanced	



MPD	Master of Technology in Product Design and Development	Statistical Methods	
MCM	Master of Technology in Computer Integrated Manufacturing		
MIT	Master of Technology in Information Technology	18MAT11B Probability Theory and Linear Algebra	2018-19
MSE	Master of Technology in Software Engineering	18MAT2G10 Advanced Statistical Methods	
MCN	Master of Technology in Computer Network Engineering		
MCE	Master of Technology in Computer Science and Engineering		
MCS	Master of Technology in Communication systems	18MAT2G10 Advanced Statistical Methods	2018-19
MVE	Master of Technology in VLSI Design & Embedded Systems		
MBI	Master of Technology in Bio-Medical Signal Processing & Instrumentation		
MDC	Master of Technology in Digital Communication Engineering		
MRM	Master of Technology in RF and Microwave Engineering		

### 1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System
Aerospace Engineering	Yes		01-08-2018
Biotechnology	Yes		01-08-2018
Chemical Engineering	Yes		01-08-2018
Civil Engineering	Yes		01-08-2018
Computer Science and Engineering	Yes		01-08-2018
Electrical and Electronics Engineering	Yes		01-08-2018
Electronics and Communication Engineering	Yes		01-08-2018
Electronics and Instrumentation Engineering	Yes		01-08-2018
Industrial Engineering and Management	Yes		01-08-2018
Information Science and Engineering	Yes		01-08-2018
Mechanical Engineering	Yes		01-08-2018
Telecommunication Engineering	Yes		01-08-2018
Basic Sciences	Yes		01-08-2018
Master of Computer Applications		Yes	01-09-2018
Master of Technology Biotechnology		Yes	01-09-2018
Master of Technology in Chemical Engineering		Yes	01-09-2018
Master of Technology in Structural Engineering.		Yes	01-09-2018
Master of Technology in Highway Technology.		Yes	01-09-2018
Master of Technology in Computer Science and Engineering		Yes	01-09-2018
Master of Technology in Computer Network and engineering		Yes	01-09-2018
Master of Technology in Power Electronics		Yes	01-09-2018
Master of Technology in Communication Systems		Yes	01-09-2018
Master of Technology in VLSI Design & Embedded Systems		Yes	01-09-2018

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System
Master of Technology in Bio-Medical Signal Processing & Instrumentation		Yes	01-09-2018
Master of Technology in Software Engineering		Yes	01-09-2018
Master of Technology in Information Technology		Yes	01-09-2018
Master of Technology in Product Design and Manufacturing		Yes	01-09-2018
Master of Technology in Computer Integrated Manufacturing		Yes	01-09-2018
Master of Technology in Machine Design		Yes	01-09-2018
Master of Technology in Digital Communication Engineering		Yes	01-09-2018
Master of Technology in RF and Microwave Engineering		Yes	01-09-2018

### 1.3 Curriculum Enrichment ---

#### 1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Nano Materials, Processes and Applications	2018-2019	118
Fuel Cell Technology	2018-2019	77
Probability Statistics and Queuing	2018-2019	19
Solid Waste Management	2018-2019	119
Image Processing	2018-2019	11
Renewable Energy Resources	2018-2019	139
Optimization Techniques	2018-2019	127
Java and J2EE	2018-2019	91
Mechatronics	2018-2019	123
Bio Informatics	2018-2019	57
Industrial Safety and Risk Management	2018-2019	147
Information Security	2018-2019	44
Disaster Management	2018-2019	137
Cloud Computing	2018-2019	114
Micro Electro Mechanical Systems	2018-2019	26
Graph Theory	2018-2019	128
Introduction to Aircraft Systems	2018-2019	90
Space Technology and Applications	2018-2019	29
Chemistry of Materials	2018-2019	64
Green Technology	2018-2019	119
Geo Informatics	2018-2019	41
Artificial Neural Networks	2018-2019	38
Quality and Reliability Engineering	2018-2019	116
Mobile Handset and Software Design	2018-2019	75
Virtual Instrumentation	2018-2019	118
Modern Automotive Engineering	2018-2019	116
Applied Psychology for Engineers	2018-2019	75
Research Methodology	2018-2019	430



1.3.2 Field Projects / Internships under taken during the year				
Programme Name			Names of students undertaking field projects / internships	
Under Graduate Programs				
Aerospace Engineering			28	
Chemical Engineering			3	
Civil Engineering			3	
Computer Science and Engineering			116	
Electrical & Electronics Engineering			26	
Electronics &communication Engineering			97	
Electronics & Instrumentation Engineering			5	
Industrial Engineering and Management			44	
Information Science Engineering			48	
Mechanical Engineering			23	
Telecommunication Engineering			3	
Post Graduate Programs				
Master of Computer Application			106	
M.Tech Bioinformatics			17	
M.Tech Chemical Engineering			6	
M.Tech Structural Engineering			17	
M.Tech Highway Technology			18	
M.Tech Computer Network Engineering			15	
M.Tech Computer Science and Engineering			15	
M.Tech Communication systems			12	
M.Tech VLSI Design & Embedded systems			21	
M.Tech Power Electronics			14	
M.Tech Master of Engineering Management			2	
M.Tech Biomedical Signal Processing & Instrumentation			12	
M.Tech Software Engineering			8	
M.Tech Information Technology			11	
M.Tech in Machine Design			17	
M.Tech in Product Design and Manufacturing			36	
M.Tech in Computer Integrated Manufacturing			13	
M.Tech in Tool Engineering			10	
M.Tech Digital Communication			34	
M.Tech RF and Microwave Engineering			9	
1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5)Parents
Yes	Yes	Yes	Yes	Yes

**1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)**

The IQAC has been following a systematic approach to collect and analyze the students feedback on all the aspects of overall development of the institution such as, teaching learning process, infrastructure, facilities, faculty etc., at regular intervals. Regular monitoring of the students for their regularity and learning by class teachers, counselors and respective HODs is conducted through counseling schedules. The attendance of the students have been monitored before every Continuous Internal Evaluation (CIEs). Students who have scored less than 50% marks and having less than 75% of attendance were advised to attend remedial classes. Student academic reports are sent to their parents / guardian after every Continuous Internal Evaluation (CIE). During each semester, faculty are evaluated through student feedback to understand the status of effectiveness of teaching-learning process. Accordingly, the faculty are advised to attend various workshops /conferences/ seminars/ pedagogy trainings/faculty development programmes etc., based on the requirement. Parent–teacher meetings are held every semester to inform the parents regarding the progression of the students. The Deans for Academics, Student affairs, Dean for PG studies help the institution in creating student centric policies. Slow learners are identified and provided with remedial measures (remedial classes) and the fast learners are allowed to work in R&D and consultancy projects at departmental and college level.

## Criterion II -Teaching-Learning and Evaluation

2.1 Student Enrolment and Profile					
2.1. 1 Demand Ratio during the year					
Name of the Programme			Number of seats available	Number of applications received	Students Enrolled
UG					
Civil Engineering			120	Students are admitted through KEA, COMED K, and Management. Overall 2 lakh students appear for entrance test and within 8000-10000 rank students join the institution	120
Mechanical Engineering			120		120
Electrical & Electronics Engineering			60		59
Electronics & Communication Engineering			180		180
Industrial Engineering & Management			60		60
Electronics & Instrumentation Engineering			60		60
Chemical Engineering			40		40
Computer Science & Engineering			180		180
Electronics & Telecommunication Engineering			60		60
Information Science & Engineering			60		60
Biotechnology			60		58
Aerospace Engineering			60		60
PG					
Structural Engineering			18	Students are admitted through GATE, PGCET, KMAT and Management. Overall 25000 students appear for entrance test and within 2000 rank students join the institution	18
Highway Technology			18		18
Product Design & Manufacturing			36		34
Computer Integrated & Manufacturing			18		13
Machine Design			18		18
Power Electronics			18		16
VLSI Design & Embedded Systems			36		36
Communication Systems			18		17
Bio Medical Processing Signal & Instrumentation			18		09
Bioinformatics			18		07
Chemical Engineering			18		08
Computer Science & Engineering			18		18
Computer Network Engineering			18		18
Digital Communication			36		36
Radio Frequency & Microwave Engineering			18		10
Software Engineering			18		18
Information Technology			18		18
Biotechnology			18		14
MCA			120 + 24		115 + 23
2.2 Catering to Student Diversity					
2.2.1. Student - Full time teacher ratio (current year data)					
Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-19	4228	928	284	87	371

**2.3 Teaching - Learning Process****2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)**

No. of teachers on roll	No. of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	No. of ICT enabled Class Rooms	No. of smart class Rooms	E-resources and techniques used
371	371	Smart boards Wi-Fi enabled class rooms, Wordpress, Screen-o-matic, YouTube links, Desktops / Laptops, servers, wikispace web pages created by faculty, E-Journals, E-Books, E-learning Software (Quiklrn), Moodle, Flipped class room, NPTEL Videos, LCD Projector with Audio Video, Printer/ Scanner/ Photocopier, Library Automation Software, LAN,WAN and Wi-Fi, High Computing facility, Physics study materials (such as notes, lab manuals, videos,etc) provided through website (www.physicsrvce.wordpress.com)	130	18	Techniques: TPS, Problem solving, Active learning, Flipped Class room Power point presentations, NPTEL,MOODLE, video courses, CANVAS LMS for course delivery, E-learning Software (Quiklrn), Moodle, QEEE, Edusat E-resources 1. <a href="http://www.link.springer.com">www.link.springer.com</a> 2. <a href="http://ieeexplore.ieee.org/Xplore/home.jsp">http://ieeexplore.ieee.org/Xplore/home.jsp</a> 3. <a href="http://www.sciencedirect.com/science/journals/a/full-text-access">http://www.sciencedirect.com/science/journals/a/full-text-access</a> 4. <a href="http://ebooks.cambridge.org/">http://ebooks.cambridge.org/</a> 5. <a href="http://is024.skillport.com">http://is024.skillport.com</a> 6. <a href="http://www.gartner.com/ Knimbus">http://www.gartner.com/ Knimbus</a>

**2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)**

There is a strong mentoring / counselling system in the institution. There are totally 51 counsellors for the I/II semester B.E students. The counsellors are so chosen that he / she will be handling the class of their students. On the same lines, there are totally 180 counsellors for the III to VIII semester B.E. students and another 20 counsellors for the M.Tech students. On an average there will be one counsellor for every 20/24 students. The counsellors are trained by experts time to time. The counsellors maintain a file for each of their mentees details including academic performance, personal information of the student, participation certificates for extra and co-curricular information. It will also contain the progress reports of CIE after each CIE. copies of grade cards, correspondences with parents etc. The students are required to meet the counsellors 5 times compulsorily during each semester as detailed below.

1. To register at the beginning of the semester.
2. To collect the 1st progress report.
3. To return the Xerox copy of the 1st progress report after obtaining the parent's signature
4. To collect the 2nd progress report.
5. To return the Xerox copy of the 2nd progress report after obtaining the parent's signature

Students whose academic performance is very poor are identified and called for special counselling as well as special remedial classes has been conducted. Services of specialists like doctor, psycho counselling are also available in the collages as and when required.

#### Professional and Personal guidance

As soon as student joins first year, the counsellor is appointed for each individual. The counsellor conducts the meeting and informs about college rules and regulations and find out about their special interests, problem, any health issue etc. and accordingly suggest the remedial solutions at their capacity: very special cases are brought to the notice of Dean Student Affairs and Principal for further action. The counsellor are assigned during I semester and continue till VIII, during their course. The counsellor apart from academic help, advise them about the opportunities regarding placement, higher education, entrepreneurial and preparation for competitive examination like UPSC, other government jobs, Defence services, social services etc.

No. of faculty mentors for UG program : 251

No. of students : 20 / 2 4 per mentor

Frequency of Meeting : 05 times per semester

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
UG : 4228 PG: 928	UG : 284 PG : 87	UG = 1:20 PG = 1:18

## 2.4 Teacher Profile and Quality

### 2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
Refer table below				

For the Faculty student ratio of 1: 15

	Required			Available		
	Professors	Associate Professors	Assistant Professors	Professors	Associate Professors	Assistant Professors
UG	23	44	188	24	58	202
PG	22	27	36	23	27	37

#### Vacant positions : NIL

	Professors	Associate Professor	Assistant Professor
UG	–	–	–
PG	–	–	–

#### No. of Faculty Members with Ph.D – 202

### 2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognized bodies during the year )

Year of award	Name of full time teachers receiving awards	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. T Raghavendra	Associate Professor	UltraTech Endowment Award, Indian Concrete Institute, Bengaluru Centre & UltraTech Cement Limited, Bengaluru

Year of award	Name of full time teachers receiving awards	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Lokeshwari M	Associate Professor	Dr. APJ Abdul Kalam award Government registered organization under NITI AAYOG
2018	Dr. Jasmine K S	Associate Professor	Prof. Indira Parikh 50 Women in Education Leaders – World Education Congress at Mumbai
2018	Dr. Shobha G	Professor	International Research Scholarship Grace Hopper Award to attend Hudson, Texas, USA for International Conference on ‘Women in Computing’.
2018	Dr. M. UttaraKumari	Professor	Best Researcher Award by ISTE – RVCE.
2018	Dr. ShylashreeN	Associate Professor	Best Thesis Award by Board for IT Education Standards (BITES)
2018	Dr. Chethana R Murthy	Assistant Professor	“Star Performer” from ICT Academy IIT Kanpur in Machine learning Course IEEE Senior membership Honour NPTEL Certificate of Appreciation : Top performing Mentor for <b>Course:</b> Discrete Mathematics NPTEL Certificate of Appreciation : Top performing Mentor
2019	Dr. H.V. Ravish Aradhya	Professor	“Outstanding Faculty Award (Engineering/Electronics)” -outstanding contribution towards Research and Academics
2019	Dr. S G Srivani	Associate Professor	Best presentation award at ICETI- 19, Las Vegas USA by Academic world international conference, USA
2019	Dr. Vidya Niranjana	Professor	Star Achiever award by Accenture
2019	Dr. K S Geetha	Professor	Accenture Faculty Award
2019	Dr. Nagaraja G S	Professor	Rajarambapu Patil National Award for promising engineering teacher for creative work done in Technical Education, ISTE
2019	Dr. Vidya Niranjana	Professor	Women of the year 2019 by Accenture
2019	Dr. K Sreelakshmi	Professor	Best co-ordinator award by Samsung India Ltd.
2019	Dr. M Uttarakumari	Professor	Best Mentor Award by Samsung India Ltd

## 2.5 Evaluation Process and Reforms

### 2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Code	Programme name	Semester/ year	Last date of the last semester-end examination	Date of declaration of results of semester-end examination
<b>UG</b>				
CV	Civil Engineering	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019

Programme Code	Programme name	Semester/ year	Last date of the last semester-end examination	Date of declaration of results of semester-end examination
CV	Civil Engineering	VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
ME	Mechanical Engineering	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
EEE	Electrical & Electronics Engineering	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
ECE	Electronics & Communication Engineering	VIII	25-05-2019	27-05-2019
		I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
IEM	Industrial Engineering & Management	VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
		I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
E&IE	Electronics & Instrumentation Engineering	VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
		I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
CE	Chemical Engineering	V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
		I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019



Programme Code	Programme name	Semester/ year	Last date of the last semester-end examination	Date of declaration of results of semester-end examination
CSE	Computer Science & Engineering	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
TE	Telecommunication	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
ISE	Information Science & Engineering	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
BT	Biotechnology	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
AS	Aerospace Engineering	I	24-12-2018	01-01-2019
		II	18-05-2019	28-05-2019
		III	28-12-2018	07-01-2019
		IV	25-05-2019	28-05-2019
		V	27-12-2018	07-01-2019
		VI	23-05-2019	31-05-2019
		VII	28-12-2018	07-01-2019
		VIII	25-05-2019	27-05-2019
UG – Fast Track				
AS	Aerospace Engineering	FT- Jul-19	01-08-2019	13-08-2019
BT	Biotechnology	FT- Jul-19	01-08-2019	13-08-2019
CH	Chemical Engineering	FT- Jul-19	01-08-2019	13-08-2019
CSE	Computer science and Engineering	FT- Jul-19	01-08-2019	13-08-2019
CV	Civil Engineering	FT- Jul-19	01-08-2019	13-08-2019

Programme Code	Programme name	Semester/ year	Last date of the last semester-end examination	Date of declaration of results of semester-end examination
ECE	Electronics and Communication Engineering	FT- Jul-19	01-08-2019	13-08-2019
EEE	Electrical and Electronics Engineering	FT- Jul-19	01-08-2019	13-08-2019
E&IE	Electronics and Instrumentation Engineering	FT- Jul-19	01-08-2019	13-08-2019
IEM	Industrial Engineering and Management	FT- Jul-19	01-08-2019	13-08-2019
ISE	Information Science and Engineering	FT- Jul-19	01-08-2019	13-08-2019
ME	Mechanical Engineering	FT- Jul-19	01-08-2019	13-08-2019
TE	Telecommunication Engineering	FT- Jul-19	01-08-2019	13-08-2019
<b>PG</b>				
MST	Structural Engineering	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MHT	Highway Technology	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MPD	Product Design & Manufacturing	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MCM	Computer Integrated & Manufacturing	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MMD	Machine Design	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MTE	Tool Engineering	III	16-01-2019	01-02-2019
MPE	Power Electronics	IV	Project viva	Project Viva
		I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
MVE	VLSI Design & Embedded Systems	IV	Project viva	Project Viva
		I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva

Programme Code	Programme Name	Semester/ year	Last date of the last semester-end examination	Date of declaration of results of semester-end examination
MCS	Communication Systems	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MEM	Master of Engg. & Management	III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MBS	Bio Medical Processing Signal & Instrumentation	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MCH	Chemical Engineering	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MCE	Computer Science & Engineering	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MCN	Computer Network Engineering	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MDC	Digital Communication	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MRM	Radio Frequency & Microwave Engineering	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MSE	Software Engineering	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MIT	Information Technology	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MBT	Biotechnology	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MBI	Bioinformatics	III	16-01-2019	01-02-2019
		IV	Project viva	Project Viva
MCA	Master of Computer Applications	I	06-02-2019	19-02-2019
		II	24-06-2019	08-07-2019
		III	18-01-2019	02-02-2019
		IV	06-06-2019	14-06-2019
		V	16-01-2019	02-02-2019

Programme Code	Programme Name	Semester/ year	Last date of the last semester-end/ examination	Date of declaration of results of semester-end examination
<b>PG - Fast Track</b>				
MST	Structural Engineering	FT-AUG-19	24-08-2019	05-09-2019
MHT	Highway Technology	FT-AUG-19	24-08-2019	05-09-2019
MPD	Product Design & Manufacturing	FT-AUG-19	24-08-2019	05-09-2019
MCM	Computer Integrated & Manufacturing	FT-AUG-19	24-08-2019	05-09-2019
MMD	Machine Design	FT-AUG-19	24-08-2019	05-09-2019
MTE	Tool Engineering	FT-AUG-19	24-08-2019	05-09-2019
MPE	Power Electronics	FT-AUG-19	24-08-2019	05-09-2019
MVE	VLSI Design & Embedded Systems	FT-AUG-19	24-08-2019	05-09-2019
MCS	Communication Systems	FT-AUG-19	24-08-2019	05-09-2019
MEM	Master of Engineering & Management	FT-AUG-19	24-08-2019	05-09-2019
MBS	Bio Medical Processing Signal & Instrumentation	FT-AUG-19	24-08-2019	05-09-2019
MCH	Chemical Engineering	FT-AUG-19	24-08-2019	05-09-2019
MCE	Computer Science & Engineering	FT-AUG-19	24-08-2019	05-09-2019
MCN	Computer Network Engineering	FT-AUG-19	24-08-2019	05-09-2019
MDC	Digital Communication	FT-AUG-19	24-08-2019	05-09-2019
MRM	Radio Frequency & Microwave Engineering	FT-AUG-19	24-08-2019	05-09-2019
MSE	Software Engineering	FT-AUG-19	24-08-2019	05-09-2019
MIT	Information Technology	FT-AUG-19	24-08-2019	05-09-2019
MBT	Biotechnology	FT-AUG-19	24-08-2019	05-09-2019
MBI	Bioinformatics	FT-AUG-19	24-08-2019	05-09-2019
MBA	Master of Computer Applications	FT-AUG-19	24-08-2019	05-09-2019

**2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year**

*\*Do not include re-evaluation/ re-totalling*

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
NIL	5110	0

**2.6 Student Performance and Learning Outcomes**

**2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the web link)**

**[www.rvce.edu.in](http://www.rvce.edu.in)**

**2.6.2 Pass percentage of students**

<b>Program Code</b>	<b>Program Name</b>	<b>No. of students appeared in the final Semester examination</b>	<b>Number of students passed in final Semester examination</b>	<b>Pass Percentage</b>
<b>UG</b>				
AS	Aerospace Engineering	61	61	100.00
BT	Biotechnology	43	42	97.67
CH	Chemical Engineering	37	36	97.30
CSE	Computer Science & Engineering	218	213	97.71
CV	Civil Engineering	133	131	98.50
ECE	Electronics & Communication Engineering	196	191	97.45
EEE	Electrical & Electronics Engineering	67	64	95.52
E&IE	Electronics & Instrumentation Engineering	51	49	96.08
IEM	Industrial Engineering & Management	58	56	96.55
ISE	Information Science & Engineering	70	69	98.57
ME	Mechanical Engineering	143	140	97.90
TE	Telecommunication	56	55	98.21
<b>PG</b>				
MST	Structural Engineering	17	13	76.47
MHT	Highway Technology	18	14	
MPD	Product Design & Manufacturing	35	33	94.29
MCM	Computer Integrated & Manufacturing	13	13	100.00
MMD	Machine Design	17	15	88.24
MTE	Tool Engineering	10	9	90.00
MPE	Power Electronics			
MVE	VLSI Design & Embedded Systems	34	31	91.18
MCS	Communication Systems	16	15	93.75
MEM	Master Of Engineering & Management	8	3	37.50
MBS	Bio Medical Processing Signal & Instrumentation	12	12	100.00
MCH	Chemical Engineering	10	9	90.00
MCE	Computer Science & Engineering	16	13	81.25

Program Code	Program Name	No. of students appeared in the final Semester examination	Number of students passed in final Semester examination	Pass Percentage
MCN	Computer Network Engineering	17	15	88.24
MDC	Digital Communication	33	32	96.97
MRM	Radio Frequency & Microwave Engineering	9	8	88.89
MSE	Software Engineering	17	17	100.00
MIT	Information Technology	17	17	100.00
MBT	Biotechnology	18	14	77.78
MBI	Bioinformatics	5	5	100.00
MCA	MCA	130	129	99.23

## 2.7 Student Satisfaction Survey

### 2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

Student satisfaction survey was conducted in order to obtain the comprehensive feedback of students about the teaching learning process followed in the institution. A total of around 1235 students responded to the survey conducted online. The results of the survey are tabulated below. The results of the survey are tabulated below

### Results/ Responses – 1235 responses

<b>1. How much of the syllabus was covered in the class?</b>				
85 to 100%	70 to 84%	55 to 69%	30 to 54%	Below 30%
48.1%	39.4%	9.7%	2.4%	0.4%
<b>2. How well did the teachers prepare for the classes?</b>				
Thoroughly	Satisfactorily	Poorly	Indifferently	Won't teach at all
33%	58%	7%	2%	–
<b>3. How well were the teachers able to communicate?</b>				
Always effective	Sometime effective	Just Satisfactorily	Generally ineffective	Very Poor communication
35.5%	47.4%	14.3%	2.9%	0.3%
<b>4. The teacher's approach to teaching can be best be described as</b>				
Excellent	Very Good	Good	Fair	Poor
20.5%	45.5%	25.2%	7.2%	1.6%
<b>5. Fairness of the internal evaluation process by the faculty</b>				
Always Fair	Usually Fair	Sometimes Fair	Usually unfair	Unfair
39.4%	44.5%	13%	1.6%	1.5%
<b>6. Was your performance in assignments discussed with you?</b>				
Every time	Usually	Occasionally	Rarely	Never
30.5%	37.9%	19.9%	7.2%	4.5%
<b>7. The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.</b>				
Regularly	Often	Sometimes	Rarely	Never
37.8%	30.4%	18.5%	9.6%	3.7%
<b>8. The teaching and mentoring process in your institution facilities you in cognitive, social and emotional growth.</b>				
Significantly	Very well	Moderately	Marginally	Not at all
28.2%	38.6%	22.5%	6.8%	3.9%



<b>9. The institution provides multiple opportunities to learn and grow</b>				
Strongly agree	Agree	Neutral	Disagree	Strongly Disagree
41.8%	38.5%	15%	2.9%	1.8%
<b>10. Teachers inform you about your expected competencies, course outcomes and programme outcomes</b>				
Every time	Usually	Occasionally	Rarely	Never
44%	37.3%	13.3%	3.9%	1.5%
<b>11. Your mentor does a necessary follow-up with an assigned task to you</b>				
Every time	Usually	Occasionally	Rarely	I do not have a mentor
37.8%	39.4%	14.4%	6.2%	2.2%
<b>12. The teachers illustrate the concepts through examples and applications</b>				
Every time	Usually	Occasionally	Rarely	Never
32.5%	43.7%	16.7%	5.9%	1.2%
<b>13. The teachers identify your strengths and encourage you with providing right level of challenges</b>				
Fully	Reasonably	Partially	Slightly	Unable to
23%	38.4%	20.4%	10.7%	7.5%
<b>14. Teachers are able to identify your weaknesses and help you to overcome them</b>				
Every time	Usually	Occasionally	Rarely	Never
22.9%	34.3%	19.5%	15%	8.3%
<b>15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process</b>				
Strongly agree	Agree	Neutral	Disagree	Strongly Disagree
33.3%	40.4%	19.1%	4.7%	2.5%
<b>16. The institute/teachers use student centric methods, such as experiential learning, participative learning and problem solving methodologies for enhancing learning experiences</b>				
To a great extent	Moderate	Somewhat	Very little	Not at all
35.3%	41.5%	13.2%	7.8%	2.2%
<b>17. Teachers encourage you to participate in extracurricular activities</b>				
Strongly agree	Agree	Neutral	Disagree	Strongly Disagree
29%	38.2%	22.2%	6.4%	4.2%
<b>18. Efforts are made by the institute/teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.</b>				
To a great extent	Moderate	Somewhat	Very little	Not at all
45.2%	38.1%	13.8%	2.1%	0.8%
<b>19. What percentage of teaches use ICT tools such as LCD projector, Multimedia, etc. while teaching.</b>				
Above 90%	70 – 89%	50 – 69%	30 – 49%	Below 29%
39.7%	34%	15.6%	6.6%	4.1%
<b>20. The overall quality of teaching-learning process in your institute is very good</b>				
Strongly agree	Agree	Neutral	Disagree	Strongly Disagree
32.6%	43.1%	17.9%	3.8%	2.6%

<b>21. Overall positive points about the institution</b>
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- |   |
|---|
| <ul style="list-style-type: none"><li>• Good teaching so far</li><li>• An excellent institute to pursue studies and gain required industrial knowledge</li><li>• Teachers take care, each and every student for helping for academic performance and skills</li></ul> |
|---|

<b>22. Points for improvement</b>
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- |  |
|--|
| <ul style="list-style-type: none"><li>• Teaching can be improved, access to springer and other journal must be accessed to students it's only available in digital library, syllabus must be changed every two years rather changing it for every 4 years</li><li>• More of Practical Learning, More Self Study Time needed, Interactivity Required.</li><li>• Rural students lack in soft skill that can be improved</li><li>• Better lesson plans, better online portal improvement in Quiz Pattern</li><li>• Assignments should be given after each unit and these assignments should carry weightage in the final score.</li><li>• Using applications like tera plot to teach graphs and plots instead of manual plotting as that's what is used in industries now-a-days.</li></ul> |
|--|

### Criterion III – Research, Innovations and Extension

3.1 Promotion of Research and Facilities					
3.1.1 The institution provides seed money to its teachers for research,					
Yes / –No      The details are as follows					
Name of the teacher getting seed money		The amount of seed money	Year of receiving grant	Duration of the grant	
Dr. Ashok Kumar A R		21,400	2018-19	4 Days	
3.1.2 Teachers awarded National / International fellowship for advanced studies/ research during the year					
	Name of the teacher awarded the fellowship		Name of the Award	Date of Award	Awarding Agency
National	Dr. Vidya Niranjan		Star Achiever Award	2019	Accenture Ltd
3.2 Resource Mobilization for Research					
3.2.1 Research funds sanctioned and received from various agencies, industry and other organizations					
Nature of the Project		Duration	Name of the funding Agency	Total grant Sanctioned (Rs)	Amount received during the year (Rs)
Major projects (Physics)		3 years	DST	70,64,000	26,00,000
Biotechnology		2years	NHM	25,00,000	10,00,000
Chemical		3 years	DST	24,10,000	11,10,000
Chemical		3 years	DST-SERB	18,30,000	18,30,000
ECE		1 years	VGST	500000/-	5,00,000/-
ECE		1 years	VGST	500000/-	-
ECE		2 years	AICTE-RPS	2500000/-	13,00,000/-
ECE		2 years	AICTE - Margadarshak	1700000/-	8,50,000/-
ECE		2 years	MHRD	2500000/-	-
CSE		12 months	HPCC Systems LexisNexis Risk Solutions Inc	4,00,011	4,00,011
CSE		10months	IBM Shared University Research	17,82,000	17,82,000
CSE		12months	Citrix R&D India Pvt. Ltd.	5,00,000	5,00,000
CSE		18months	Bharat Electronics Limited	3,45,000	3,45,000
CSE		12months	System Consultant Information India Pvt. Ltd.	6,00,000	6,00,000
Minor Projects ISE		Apr 2018 to March 2019	Department of Kannada and culture, Government of Karnataka	1,00,000	1,00,000
EEE		1 year	VGST	5,00,000	Nil
Interdisciplinary Projects (chemical)		3 years	Department of Science and Technology	67,26,800	45,68,000
Any other (Specify) (ISE)		Aug 2018 to Sep 2019	National Silkworm Seed Organization, Central Silk Board	7, 75, 000	0

Nature of the Project	Duration	Name of the funding Agency	Total grant Sanctioned (Rs)	Amount received during the year (Rs)
Students Research Projects (other than compulsory by the College)	6 month	(KSCST)	21,000	21,000
<b>Total</b>			<b>3,10,03,811</b>	<b>1,75,06,011</b>

### 3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years

Sl No	Title of the project	Name	Agency	Year	Amount (Rs)
1.	Building Infrastructure for Digital Interactive Classrooms	Dr.Uma B.V	MHRD	2019	25,00,000
2.	Electrostatic Energy Harvesting for Self Powered Medical Wearable devices	Dr.Shilpa D.R	VGST-RGS-F	2019	5,00,000
3.	Development of Compact C-band dual shaped graded index lens array antenna	Dr.Ravishankar S	AICTE-RPS	2019	25,00,000
4.	Release of grants under share&mentor institutions (Marghadharshan Scheme)	Dr.Uma B.V	AICTE	2018	17,00,000
5.	Design and development of flexible thin film sensors for wearable electronics	Prof.Roopaa J	VGST-RGS-F	2018	5,00,000
6.	Center for Upliftment and personality Development of SC/ST Students for better outreach	Dr. Usha J Dr. Ashwini K.B	AICTE	2016-2019	25,00,00
7.	Extending CURRENT ML library in HPCC	Dr. Shobha G	CSE	2018-2019	4,11,000
8.	Smart app meter for Energy & Water management Aided with Water and Air quality monitoring	Dr. Anala M R	CSE	2018-2019	7,16,000
9.	Artificial Intelligence based Object Movement Tracking	Dr. Anala M R, Dr. Hemavathy R Dr. Shobha G	CSE	2018-2019	3,45,000
10.	Generic NetScaler Configuration Visualizer	Dr. Minal Moharir Dr. Shobha G	CSE	2018-2019	2,50,000
11.	ChatBot Interface for SD WAN Config Management	Dr. Anala M R	CSE	2018-2019	2,50,000
12.	VR Supermarket : Modelling Supermarket on a Virtual Reality Platform	Dr. Deepamala N Dr. Shobha G	CSE	2018-2019	3,00,000
13.	Natural Language to SQL query using machine learning	Dr. Deepamala N Dr. Shobha G	CSE	2018-2019	3,00,000
<b>Total</b>					<b>1,05,22,000.00</b>

<b>3.3 Innovation Ecosystem</b>		
<b>3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year</b>		
<b>Title of Workshop/Seminar</b>	<b>Name of the Dept.</b>	<b>Date(s)</b>
Computational Science in Engineering	Physics and Margadarshan	15 <sup>th</sup> - 20 <sup>th</sup> July 2019
“Intellectual Property Rights and Innovations with Special Focus on Prior Art Search”	Department of Biotechnology	13 <sup>th</sup> - 14 <sup>th</sup> September 2019
ICT enabled Physics Experiments and training on thin film solar cells	Physics	22 <sup>nd</sup> - 27 <sup>th</sup> October 2018
Two day Indo-US Workshop on Hazardous Material Management	Jointly conducted by Departments of Chemical Engineering, Civil Engineering, Biotechnology, Mechanical Engineering and Industrial Engineering and Management	23 <sup>rd</sup> - 24 <sup>th</sup> of November 2018
Industry Academia Workshop	Civil Engineering	8 <sup>th</sup> - 9 <sup>th</sup> November 2019
“A Course on Probability and Random Processes” Karthik P N ,graduate student ,Department of Electrical Communication Engineering (ECE) at the Indian Institute of Science (IISc)	Electronics and Communication Engineering	3 <sup>rd</sup> June - 5 <sup>th</sup> June 2019
“Agenda for Intensive Internship Program for Faculty on Next Generation of Communication System Design using NI SDR USRP Platform”, Mr.NilutpanChoudhury, National Instruments RF specialist Avgarde Systems PVT, LTD.	Electronics and Communication Engineering	27 <sup>th</sup> to 31 <sup>st</sup> May 2019
“IOT with Python Programming” by Dr. Anala M.R, Associate Professor RVCE Bengaluru.	Electronics and Communication Engineering	6 <sup>th</sup> and 7 <sup>th</sup> May, 30 <sup>th</sup> May to 1 <sup>st</sup> June 2019
Ham workshop, Dr. S Sathyapal, VU2FI and Mr. Marcus VU2VTM, Indian Institute of Ham	Electronics and Communication Engineering	30 <sup>th</sup> March 2019
"Emerging Trends in Multi-core Processors & Network on Chip Architecture", under IEEE – RVCE Student Chapter. Dr John Jose, Professor of IIT Guwahati	Electronics and Communication Engineering	21 <sup>st</sup> - 25 <sup>th</sup> January, 2019
“Fundamentals of Long Term Evolution (LTE)-4G” under IEEE Communication Society, RVCE student chapter ,by SondurLakshmi pathi CEO MyMo Wireless. LTE System Dr. Neelesh Mehta, Associate Prof IISC. Anand Mohandas, Senior Research Engineer, CDOT	Electronics and Communication Engineering	26 <sup>th</sup> - 30 <sup>th</sup> September 2018
Talk on Modern Information Retrieval by Mr. Talluri Gopinath, TCS, Johensberg, South Africa	Information Science and Engineering	3 <sup>rd</sup> August 2018

<b>Title of Workshop/Seminar</b>	<b>Name of the Dept.</b>	<b>Date(s)</b>
Talk on Runtime Technologies, Agile, Cloud and Devops by Dinakar Guniguntala, Deepthi Sebastian, IBM	Information Science and Engineering	20 <sup>th</sup> February 2019
Talk on Research Avenues in Machine Learning and Artificial Intelligence by Mr.Siddharth Das, Co-CEO, Reliance Jio Money, Bengaluru	Information Science and Engineering	27 <sup>th</sup> May 2019
Research problem identification and patent searching	Master of Computer Applications	09 <sup>th</sup> June 2019
Two days inter disciplinary IDEATHON on Intelligent Transportation Systems “For a safer, smarter and sustainable transportation” was organized by departments of IEM, CSE and MCA under the flagship of CISCO-RVCE Centre of Excellence in IoT	Industrial Engineering and Management	9 <sup>th</sup> and 10 <sup>th</sup> February 2018
Invited talk on “Intelligent Transport System” by Ms. Alka Nair, Mathworks, organized by CoE-IoT	Industrial Engineering and Management	16 <sup>th</sup> February 2018
One day Industry Institution Programme on "Operational and People Excellence as a profession for Graduating Engineers" organised by IDEA under the banner of Industry Institution Interaction Cell (IIIC) and Internal Quality Assurance Cell (IQAC)	IEM,IIIC,IQAC	26 <sup>th</sup> November 2018
Two days workshop on "Hazardous Material Management"	CV, IEM, ME, CH & BT	23 <sup>rd</sup> and 24 <sup>th</sup> November 2018
Interaction session on Industrial Engineering curriculum improvement between IEM Faculty and Mr. Bopaya Bidanda, chairman- IE, PITTSBURG university on under the banner of IDEA and IQAC, RVCE.	IQAC,IEM	4 <sup>th</sup> December 2018
One day training programe on ERPNext	IEM	19 <sup>th</sup> January 2019
Two days workshop on “Global Trends in Project Management and Microsoft Project”	IDEA and IQAC-RVCE	11 <sup>th</sup> and 12 <sup>th</sup> February 2019
Training Program on Intelligent Analytics	Cisco-RVCE, CoE-IoT	8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 15 <sup>th</sup> , 16 <sup>th</sup> , 17 <sup>th</sup> February 2019
Training on “IoT based Transport System for Smart Mobility”	CISCO –RVCE CoE in IoT	25 <sup>th</sup> Febuary to 1 <sup>st</sup> March 2019
Talk on “Master Studies and PhD opportunities in Germany”	Dept. of IEM	4 <sup>th</sup> April 2019
Usage of Statistical Analysis software and interpretation of output of the software for PG students by Prof. Acharya, ISI, Bangalore at IEM Auditorium	IEM	12 <sup>th</sup> and 15 <sup>th</sup> April 2019
“Skill and Personality Development (SPDP)” Centre for SC/ST students.	IEM,MCA	3 <sup>rd</sup> May 2019.



**3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year**

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Development of Biosensor for Detection of Phenolic adulterants in the food	Best Year of Project Award	Karnataka State Council for Science and Technology (KSCST) , IISc, Bengaluru	26 <sup>th</sup> July 2019	Science and Engineering
ANVEHSAN	Yash Agarwal Yashasvi Singh	Analog Devices	June 2019	Best Business Model
Graphene Oxide Based Nano-Composite Membranes For Removal of Lead from Water	Students: Varun Thirtha, Himanshu Singh, Bahubali Magadum Guide:Dr. Rajalakshmi Mudbidre	Entrepreneurship Development Cell RVCE, Bengaluru Sponsoring Agency: MERK Ondia	30 <sup>th</sup> April 2019	UG projects Innovative Project competition- 2019
Smart Attendance System Using Speech & Speaker Recognition System	Rajatkeshri , Nishanth D A	HACKWELL JSSATE	12 <sup>th</sup> - 13 <sup>th</sup> April, 2019	Business Marathon
Smart-3D Scan-To-Print Machine	Chethan Kabade, Geetha A K	Delta Electronics (Jiang Su), Co., Ltd, in China.	March 2018	Product Development

**3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year**

Incubation Centre	Name	Sponsored by
MI	Matheen Irfan	Self/RSST

Name of the Start-up	Nature of Start-up	Date of commencement
Rubizon Pvt Ltd	Skin care product from fish waste	1-5-2019
Caranrose Pvt Ltd	Flowers preservation	1-5-2019
Enema Socio Educational Network	Socio educational networking	1-5-2019
Suchandra Technologies Pvt Ltd	Next generation Power Bank	1-5-2019
Revagram	Online dance teaching & learning platform driven by artificial Intelligence	28-8-2019
TickBit	Movie theatre occupancy enhancement technology based on AI & MI	26-9-2019

**3.4.4 Research Publications and Awards****3.4.1 PhDs awarded during the year**

Name of the Department	No. of Ph. Ds Awarded
Computer Science Engineering	09
Chemistry	04
Electronics and Communication Engineering	03
Information Science & Engineering	03
Industrial Engineering and Management	01
Department of Civil Engineering	04
Biotechnology	01
Electronics and Instrumentation Engineering	04

3.4.2 Research Publications in the Journals notified on UGC website during the year			
	Department	No. of Publication	Average Impact Factor, if any
International	Computer Science Engineering	10	0
National	Chemical Engineering	4	0
National	Chemistry	1	0
International	Chemistry	15	0
International	Electronics & Communication Engineering	03	1.513
National	Information Science & Engineering	01	0.92
International	Master of Computer Applications	02	6.2
National	Physics	0	0
International	Physics	5	1.5
International	Electrical and Electronics Engineering	17	2.153
National	Industrial Engineering & Management	1	-
International	Industrial Engineering & Management	7	-
International	Biotechnology	36	1
International	Telecommunication Engineering	12	4.05
National	Mechanical Engineering	04	0.65
International	Mechanical Engineering	29	3.48
3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/ International Conference Proceedings per Teacher during the year			
Department		No. of publication	
Computer Science Engineering		10	
Chemical Engineering		Number of conference publications 6/13	
Chemistry		16	
Electronics and Communication Engineering		85	
Information Science & Engineering		04	
Master of Computer Applications		21	
Electrical and Electronics Engineering		5	
Industrial Engineering & Management		02	
Electronics and Instrumentation Engineering		35	
Telecommunication Engineering		Journal / conferences - 29 (International) + 62 (National), Books- nil	
3.4.4 Patents published/awarded during the year			
Patent Details	Patent status Published/ Filed	Patent Number	Date of Award (Filed/ Published)
Method, System and Apparatus for Providing efficient and secured Authentication using Biometric Credentials	Filed	201841036854	28/09/2018
Extraction of Hydroxymethylfurfural (HMF) from Organic Waste	Filed	201841046270	07/12/2018
Method, System And Apparatus For Preventing Shoulder Surfing In Secure Electronic Transactions	Filed	201941000753	07/01/2019
Method, System and Apparatus for Location-based Dynamic Seat Reservation and Status Display	Filed	201941009038	08/03/2019

<b>Patent Details</b>	<b>Patent status Published/ Filed</b>	<b>Patent Number</b>	<b>Date of Award (Filed/ Published)</b>
Fuel Efficient Heavy-Duty Vehicles Adaptable to Both Agricultural and on Road Applications	Filed	201941009857	14/03/2019
Method and System for Producing Xylooligosaccharides from dried orange peels	Published	201741011399	05/10/2018
Method and System to Estimate Angle of Arrival for a Smart Array Antenna.	Published	201741011400	05/10/2018
Method, System and Device for theft Lock	Published	201741021773	22/03/2019
Tractor Mounted Ariel Work Platform for Arecanut Farming	Published	201741032708	22/03/2019
Stabilization of the Earth for Construction with a Stabilizer	Published	201741039721	03/05/2019
A Portable Center Stand for a Two Wheeled Vehicle	Published	201741041367	24/05/2019
Bioactive thin films for food packaging	Published	201741044070	14/06/2019

**3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index**

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
<b>Computer Science and Engineering</b>						
Development of framework for Detecting Smoking Scene in Video Clips	Poonam, G., Shashank, B. N., & Athri, G. R.	Indonesian Journal of Electrical Engineering & Computer Science (IJEECS)	2018-2019	ISSN: 2502-4760	R V College of Engineering	
An adaptive model for traffic flow optimisation in dynamic environments	Rahul, M. V., Shettar, R., & Subramanya K.N.	International Journal of Computational Science and Engineering	2018-2019	ISSN:1742-7193	R V College of Engineering	
A cost-effective 2-tier security paradigm to safeguard cloud data with faster authentication	Veena R. S. Ramachandra V. Pujeri, Indiramma M	International Journal of Electrical and Computer Engineering (IJECE)	2018-2019	ISSN:20888708	R V College of Engineering	
Automated Test Script Generation from Natural Language Query	Deepak jha, Deepamala.N, Tushar Kanakagiri, Shreyas Raghunath, Sughosh Kaushik, Dr.Shobha G, Ankit Singh	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2018-2019	ISSN:2278-3075 <a href="https://www.ijitee.org/indexing/">https://www.ijitee.org/indexing/</a>	R V College of Engineering	
Automated brain tumor segmentation and identification using MR images	Mahalakshmi, Krishnappa, Jayadevappa	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2018-2019	ISSN:2278-3075 <a href="https://www.ijitee.org/indexing/">https://www.ijitee.org/indexing/</a>	R V College of Engineering	
Adaptive real time traffic prediction using deep neural networks	Parinith R Iyer, Shrutheesh Raman Iyer, aghavendran Ramesh, Anala M.R., K.N. Subramanya	International Journal of Artificial Intelligence	2018-2019	ISSN:0974-0635	R V College of Engineering	
Dynamic Load Balancing Based on Genetic Algorithm	Sandhya S, N K Cauvery	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2018-2019	ISSN:2278-3075 <a href="https://www.ijitee.org/indexing/">https://www.ijitee.org/indexing/</a>	R V College of Engineering	

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Region based active contours model with contour let transform for segmentation of brain tumor from MR images	Mahalakshmi, Krishnappa, H.K., Jayadevappa, D	Journal of International Pharmaceutical Research	2018-2019	ISSN:16740440	R V College of Engineering	
Uncertainty Aware Resource Provisioning Framework for Cloud Using Expected 3-SARSA Learning Agent: NSS and FNSS Based Approach	Bhargavi, K., Sathish Babu, B.	Cybernetics and Information Technologies	2018-2019	ISSN: 1314-4081	R V College of Engineering	
<b>Chemical Engineering</b>						
Synthesis of porous graphene powder through improved Hummers' method	Basavaraja R. J,	AIP conference proceedings	2018	0	R.V. College of Engineering	0
Environmental Effect Studies on Aviation Contrails and Cirrus Clouds	Vinutha Moses	Environment Asia	2018	0	R.V. College of Engineering	0
Development of a bioresin from organic waste and its application to make high strength composites	Vinutha Moses,	AIP conference proceedings	2018	0	R.V. College of Engineering	0
Environmental Effect Studies on Aviation Contrails and Cirrus Clouds	Vinutha Moses	Environment Asia	2018	0	R.V. College of Engineering	0
Development of a bioresin from organic waste and its application to make high strength composites	Vinutha Moses,	AIP conference proceedings	2018	0	R.V. College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Nanotechnology-As antibacterial and heavy metal removal in waste water treatment –A review	Vinutha Moses	AIP conference proceedings	2018	0	R.V. College of Engineering	0
<b>Chemistry</b>						
Curing of Natural Rubber/ Polyvinyl Alcohol Blends Using Glutaraldehyde	Nussana Lehman, Piyarat Judklaing, Ladawan S MP Sham Aan, Jobish Johns	Materials Today: Proceedings	2018	-	R.V. College of Engineering	0
Effect of hydrogen bonding on fluorescence quenching of quinolin-8-ol-analysis using negative stern-volmer plots	RMelavanki, Bhavya, R Kusanur, LR Naik	International journal of life science and pharma research	2018	-	R.V. College of Engineering	0
Bimolecular fluorescence quenching reactions of the biologically active coumarin composite 2-acetyl-3H-benzo[f]chromen-3-one in different solvents	V. V. Koppal, R. A. Kusanur, N. R. Patil,	Luminescence	2018	-	R.V. College of Engineering	0
Understanding fluorescence resonance energy transfer between biologically active coumarin derivative and silver nanoparticles using steady state & time resolved spectroscopic methods	V.V. Koppal R.M. Melavanki, R.A. Kusanur N.R. Patil	Journal of Molecular liquids	2018	-	R.V. College of Engineering	0
Synthesis & characterization of smart compounds of 2-substituted benzimidazole derivatives for plant growth enhancement	Mahesh.R , Ashok Kumar H G, Satyanarayana S.	Materials Today: Proceedings	2018	-	R.V. College of Engineering	0



Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Flexural Characterization of Foam Cored E-Glass Reinforced Smart Materials Using Artificial Neural Network	B.J.Manujesh, M.R.Prajna M.P.ShamAan, C.V.Majida	Materials Today Proceedings	2018	-	R.V. College of Engineering	0
Naked eye detection of ammonia gas using diphenylamine based conjugated Polymers	S G Pallavi, Vishnumurthy K A, K Natarajan	Materials Today Proceedings	2018	-	R.V. College of Engineering	0
Deposition & Electro-chemical characterization of Multilayer coated electrode material for super capacitor application	Ajay K M, M N Dinesh, Vishnumurthy K A, C R Ravikumar	Materials Today Proceedings	2018	-	R.V. College of Engineering	0
Understanding fluorescence resonance energy transfer between biologically active coumarin derivative & silver nanoparticles using steady state and time resolved spectroscopic methods	V.V. Koppal R.M. Melavanki, R.A. KusanurN.R. Patil	Journal of Molecular liquids	2018	-	R.V. College of Engineering	0
Synthesis & characterization of smart compounds of 2-substituted benzimidazole derivatives for plant growth enhancement	Mahesh.R , Ashok Kumar H G, Satyanarayana S.	Materials Today: Proceedings	2018	-	R.V. College of Engineering	0
Flexural Characterization of Foam Cored E-Glass Reinforced Smart Materials Using Artificial Neural Network	B.J.Manujesh, M.R.Prajna , M.P.ShamAan, C.V.Majida	Materials Today Proceedings	2018	-	R.V. College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Naked eye detection of ammonia gas using diphenylamine based conjugated Polymers	S G Pallavi, Vishnumurthy K A, K Natarajan	Materials Today Proceedings	2018	-	R.V. College of Engineering	0
Deposition & Electrochemical characterization of Multilayer coated electrode material for super capacitor application	Ajay K M, M N Dinesh, Vishnumurthy K A, C R Ravikumar	Materials Today Proceedings	2018	-	R.V. College of Engineering	0
Blended learning is a Journey not an Event.	Swarna M Patra, K N Subramanya	International Journal on Recent Trends in Business and Tourism	2018	-	R.V. College of Engineering	0
Fabrication and Study of Amorphous Silicon Based MOS Capacitor	Yadhuraj S.R, Uma B.V, Divakara S. G, T.K Subramanyama, SatheeshBabu G	Materials Today: Proceedings	2018	-	R.V. College of Engineering	0
Effect of hydrogen bonding and solvent polarity on the fluorescence quenching and dipole moment of 2-methoxypyridin-3-yl-3-boronic acid	Melavanki Raveendra, Kusanur Raviraj, Thipperudrappa J, Patil N R, Bhavya P	Indian Journal of Pure and Applied Physics	2018	-	R.V. College of Engineering	0
Spectroscopic behavior, FMO, NLO and NBO analysis of two novel aryl boronic acid derivatives: Experimental and theoretical insights	Kalpana Sharma, Raveendra Melavanki, Kusanur Raviraj, N R Patil	Journal of Molecular Structure	2019	4	R.V. College of Engineering	2
Exploring the spectral features and quantum chemical computations of a novel biologically active	P Bhavya, Raveendra Melavanki, Kusanur Raviraj, N R Patil	Chemical Data Collections	2019	-	R.V. College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
heterocyclic compound 2MEFPBA dye, experimental and theoretical approach						
Optimization of parameters for maximizing photocatalytic behaviour of Zn1-xFexO nanoparticles for methyl orange degradation using Taguchi & Grey relational analysis Approach	M. Jena, C. Manjunatha, B.W. Shivaraj, G. Nagaraju, S. Ashok, M.P. Sham Aan	Materials Chemistry Today	2019	-	R.V. College of Engineering	0
Reduction of nitro compounds carrying electron withdrawing groups: A convenient approach without metal catalyst	K.A. Vishnumurthy, A.V. Adhikari	Chemical Data Collections	2019	-	R.V. College of Engineering	0
Hydrothermal Synthesis of Molybdenum Disulfide	Mohammed Mukarram Ahmed Ansari, Dr. Chandrakumar. R, Manjunatha. C	International Research Journal of Engineering and Technology (IRJET)	2019	-	R.V. College of Engineering	0
<b>Electronics and Communication Engineering</b>						
RideNN: A New Rider Optimization Algorithm-Based Neural Network for Fault Diagnosis in Analog Circuits	Binu, D., Kariyappa, B.S	IEEE Transactions on Instrumentation and Measurement	2018	0	R.V. College of Engineering	09
<b>Master of Computer Applications</b>						
Lightweight Security Protocol for Efficient Information Transfer in Sensor Networks	Dr Manju Prasad, Dr Andhe Dharani	International Journal of Recent Technology and Engineering (IJRTE)	2019	5.92	RV College of Engineering	0

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>No. of citations excluding self citations</b>
Methodologies in Face Recognition for Surveillance	Dr Andhe Dharani	3 <sup>rd</sup> IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions 2018	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Mobile as a sensor in Intelligent Transportation System for Street Route	Dr Andhe Dharani, Dr Vijayalakshmi MN	International Conference on Computing, Power and Communication technologies (GUCON-2018)	2018		RV College of Engineering	0
Overload Control with Hybrid SIP Signaling - Using Smart Reliability and Priority Queuing Strategies"	Mr Jayasimha, Dr Usha J	International Journal of Recent Technology and Engineering (IJRTE)	2019	Impact Factor : 5.92 Scopus Indexed Journal	RV College of Engineering	0
A Comprehensive review of Energy Efficiency in Cloud Computing Environment	Dr Usha J , Jayasimha SR	International Journal of Engineering and Technology, UAE	2018	H index of the journal : 18	RV College of Engineering	0
Risk Based Thinking And Contingency Modeling in leadership & Administration For Quality Management In Higher Education	Dr Jasmine KS	International Journal of Risk and Contingency Management (IJRCM)	2018		RV College of Engineering	0
Analysis Of Liver Disease And Hcc Inducing Factors Using Machine Learning Algorithms	Dr Vijayalakshmi MN	2 <sup>nd</sup> International Conference On Intelligent Data Communication Technologies And Internet Of Things ICICI 2019 Springer, Cham	2019		RV College of Engineering	0

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>No. of citations excluding self citations</b>
Design of Dashboard for University Examination Result Analysis System	Dr Vijayalakshmi MN	3 <sup>rd</sup> IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions 2018	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Computational Intelligence for Data Analytics	Dr S Anupama Kumar, Dr Vijayalakshmi MN, Dr Divya TL, Dr Subramanya KN	Recent Advances in Computational Intelligence” by Springer, Cham	2019		RV College of Engineering	0
Contemplation Of Computational Methods And Techniques To Predict Copd	Shaila H Koppad, Dr S Anupama Kumar	2 <sup>nd</sup> International Conference On Intelligent Data Communication Technologies And Internet Of Things ICICI 2019 Springer, Cham	2019		RV College of Engineering	0
Efficiency Of Naiv Bayes Technique Based On Clustering To Detect Congestion In Wireless Sensor Network	Dr S Anupama Kumar	2nd International Conference On Intelligent Data Communication Technologies And Internet Of Things ICICI-2019	2019		RV College of Engineering	0
Development of Wireless Sensor Network Congestion Detection Classifier Using Support Vector Machine	Dr S Anupama Kumar	3rd International Conference on CSITSS	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Application of Data Analytics to predict and analyse COPD Data	Shaila H Koppad, Dr S Anupama Kumar	2nd International Conference on Electronics Communication and Aerospace Technology	2018		RV College of Engineering	0

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>No. of citations excluding self citations</b>
Development of Wireless Sensor Network Congestion Detection Classifier Using Support Vector Machine	Dr S Anupama Kumar	3rd International Conference on CSITSS-2018	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Application of Seasonal Analytics in Health Care Sector	Dr S Anupama Kumar	International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018	2018		RV College of Engineering	0
Development of Wireless Sensor Network Congestion Detection Classifier Using Support Vector Machine	Dr S Anupama Kumar	3rd International Conference on CSITSS-2018	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Application of Seasonal Analytics in Health Care Sector	Dr S Anupama Kumar	International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018	2018		RV College of Engineering	0
Identification on Top Trends of Public Opinion using Location based Sentiment Analysis	Mr Vishal C	International Journal of Innovative Technology & Exploring Engineering published by (IJITEE)	2018		RV College of Engineering	0
An Approach for Improving Data Accuracy by Contrasting Classification and Clustering Techniques using Sentiment Analysis	Mr Vishal C	Journal of Advanced Research in Dynamical and Control Systems (JARDCS)	2019		RV College of Engineering	0
Detection and Classification of Microaneurysms and Haemorrhages from Fundus Images for Efficient Grading	SavithaSheelavant, Dr Preethi N Patil	3 <sup>rd</sup> IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0



Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
of Diabetic Retinopathy		Techniques (ICECCOT-2018)				
Defending Selective Forwarding Attacks in Underwater Acoustic Networks Applying Trust Model	Dr Nagamuthu Krishnan SS	2nd International Conference on Electronics, Communication & Aerospace Technology (ICECA 2018)	2018		RV College of Engineering	0
Identification on Top Trends of Public Opinion using Location based Sentiment Analysis	Mr Vishal C	International Journal of Innovative Technology and Exploring Engineering published by (IJITEE)	2018		RV College of Engineering	0
Detection and Classification of Microaneurysms and Haemorrhages from Fundus Images for Efficient Grading of Diabetic Retinopathy	SavithaSheelavant, Dr Preethi N Patil	3 <sup>rd</sup> IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICECCOT-2018)	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Defending Selective Forwarding Attacks in Underwater Acoustic Networks Applying Trust Model	Dr Nagamuthu Krishnan SS	2nd International Conference on Electronics, Communication and Aerospace Technology (ICECA 2018)	2018		RV College of Engineering	0
Detection and Classification of Microaneurysms and Haemorrhages from Fundus Images for Efficient Grading of Diabetic Retinopathy	SavithaSheelavant, Dr Preethi N Patil	3 <sup>rd</sup> IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICECCOT-2018)	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Defending Selective Forwarding Attacks in Underwater Acoustic Networks Applying Trust Model	Dr Nagamuthu Krishnan SS	2 <sup>nd</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA 2018)	2018		RV College of Engineering	0
Impact of Learning Functions on Prediction of Stock Data In Neural Network	Dr Manjunath M	3 <sup>rd</sup> IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions CSITSS 2018	2018	IEEE Conference – Scopus Indexed	RV College of Engineering	0
Performance Analysis of Petal Ant Routing (PAR) and Dynamic Source Routing (DSR) in MANET using Network Simulator (NS2)	Dr Manjunath M	IEEE Second World Conference on Smart Trends in Systems, Security and Sustainability	2018		RV College of Engineering	0
<b>Physics</b>						
Synthesis of polyaniline/ MWCNTs by interfacial polymerization for superior hybrid supercapacitance performance	B. P. Prasanna, D. N. Avadhani, K. Chaitra, N. Nagaraju, N. Kathyayini	Journal of Polymer Research	May 2018		R.V. College of Engineering	
Synthesis and crystal structure studies of 3,3-bis(methylthio)-1-(4 (trifluoromethyl) phenyl) prop-2-en-1-one and 3,3-bis(methylthio)-1-(thiophen-2-yl) prop-2-en-1-one derivatives	M. Munvar Hussain Shamantha Kumar A. C., Vinayaka T. Bhuvaneswara Babu B. G. Devika B. M Rajesh and B. H. Doreswamy		2018		R.V. College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Measurement of the full electron spectrum associated with the Ag N3VV Auger transitions: Evidence for the contribution of multi-electron Auger processes	P.V. Joglekara, R.W. Gladena V.A. Chirayath, A.J. Fairchild, S. Kalaskar, K. Shastry, Q. Dong, S.L. Hulbert, R.A. Bartynski W.S.M. Werner, AH Weiss	Journal of Electron Spectroscopy and Related Phenomena	June 2019		R.V. College of Engineering	0
Fabrication of PANI/SnO2 Hybrid Nanocomposites via Interfacial Polymerization for High Performance Supercapacitors Applications, Surface Engineering and Applied Electrochemistry	B.P. Prasanna, D.N. Avadhani, Vinuth Raj, K. Yogesh Kumar, M.S. Raghu,	Surface Engineering and Applied Electrochemistry,	2019		R.V. College of Engineering	0
The Effect of Visual Representation in Developing Conceptual Understanding of Magnetic Force	S. Shubha B. N. Meera	Journal of Formative Design in Learning	2019		R.V. College of Engineering	0
<b>Electrical and Electronics Engineering</b>						
Interactive Graphical User Interface (GUI) for Wind Speed Prediction Using Wavelet and Artificial Neural Network	Prema V, Uma Rao K	Journal of The Institution of Engineers (India)	2018	100	R.V. College of Engineering	2
Protection Challenges under Bulk Penetration of Renewable energy resources in Power Systems	S G Srivani	CSEE, Journal of Power and Energy Systems	2017	48	R.V. College of Engineering	50

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>No. of citations excluding self citations</b>
Enhanced real time coordination of Distance and user defined Overcurrent relays	S G Srivani	International Journal of electrical power and Energy systems	2018	48	R.V. College of Engineering	9
Simulation of Cortical Epileptic Discharge using Freema's KIII Model	A Sridevi	Book title: Computational Vision and Bio inspired Computing, Springer	2018	10	R.V. College of Engineering	1
Low Speed Estimation of Sensorless DTC Induction motor Drives using MRAS with Neuro Fuzzy Adaptive Controller	M N Dinesh	International Journal of Electrical and Computing Engineering	2018	14	R.V. College of Engineering	1
Integrated adaptive distance relay reach settings in series compensated lines	S G Srivani	International Journal Electrical Engineering and Informatics.	2010	6	R.V. College of Engineering	1
Interactive Graphical User Interface (GUI) for Wind Speed Prediction Using Wavelet & Artificial Neural Network	Prema V, Uma Rao K	Journal of The Institution of Engineers (India)	2018	100	R.V. College of Engineering	2
Protection Challenges under Bulk Penetration of Renewable energy resources in Power Systems	S G Srivani	CSEE, Journal of Power and Energy Systems	2017	48	R.V. College of Engineering	50
Enhanced real time coordination of Distance and user defined Overcurrent relays	S G Srivani	International Journal of electrical power and Energy systems	2018	48	R.V. College of Engineering	9

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Simulation of Cortical Epileptic Discharge using Freema's KIII Model	A Sridevi	Book title: Computational Vision and Bio inspired Computing, Springer	2018	10	R.V. College of Engineering	1
Low Speed Estimation of Sensorless DTC Induction motor Drives using MRAS with Neuro Fuzzy Adaptive Controller	M N Dinesh	International Journal of Electrical and Computing Engineering	2018	14	R.V. College of Engineering	1
Integrated adaptive distance relay reach settings in series compensated lines	S G Srivani	International Journal Electrical Engineering and Informatics.	2010	6	R.V. College of Engineering	1
<b>Industrial Engineering and Management</b>						
An adaptive model for traffic flow optimisation in dynamic environments	MV Rahul, Rajashree Shettar, KN Subramanya	International Journal of Computational Science and Engineering	2019		R.V. College of Engineering	0
Design of Mixed Truck System with Milk Run Pick Up And Single Hub Cross Docking Distribution -A Case Study	NS Shobha, KN Subramanya	Asian Journal of Management	2018		R.V. College of Engineering	0
Supplier Selection Model using Game Theoretical Approach	SV Nagabhushan, KN Subramanya	Global Journal of Computer Science and Technology	2018		R.V. College of Engineering	0
Investigations on a-Si: H thin film solar cells by RF-PECVD	TK Subramanyam, S Pavan Kumar, P Goutham, R Suresh, KN Subramanya	Materials Today: Proceedings	2018		R.V. College of Engineering	0
Investigations on a-Si: H thin film solar cells by RF-PECVD	TK Subramanyam, S Pavan Kumar, P Goutham, R Suresh, KN Subramanya	Materials Today: Proceedings	2018		R.V. College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
A Statistical View Point of Road Accidents due to Mobile Phone Usage while Driving	NS Narahari, V Prashant	Journal of Communication Engineering & Systems	2019		R.V. College of Engineering	0
Continuous Quality Improvement Studies in a Gypsum Board Manufacturing Unit-A Case Analysis	KVS Rao, A Ramaa, NS Narahari	Asian Journal of Management	2018		R.V. College of Engineering	0
Design of IoT Architecture for order picking in a typical warehouse	CK Nagendra Guptha, MG Bhaskar, V Meghasree	3 <sup>rd</sup> International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS)	2018		R.V. College of Engineering	0
Design and Implementation of Monitoring System for Retail Cold Chain-Case Study	CK Nagendra Guptha, KN Subramanya	International Conference on Management and Information Systems September	2018		R.V. College of Engineering	0
<b>Biotechnology</b>						
Classification of Mycobacterium tuberculosis DR, MDR, XDR Isolates and identification of signature Mutation pattern of drug resistance	Prasanna, Akshatha and Vidya Niranjana	Bioinformation	2019	0	R.V. College of Engineering	0
Evaluation of alternative bioreceptors for pesticide detection	Nagashree N Rao, Vidya niranjana	Materials Today: Proceedings	2018	0	R.V. College of Engineering	0
Cloud based solutions for Genome informatics: Challenges & Applications	Vidya Niranjana, Suchitra, Pooja R, AkshathaPrasanna	Materials Today: Proceedings	2018	0	R.V. College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Green Synthesis and Characterization of multifunctional zinc Oxide Nanomaterials using Extract of Moringa Oleifera seed	Rajeswari M, PushphaAgrawal, Praveen Kumar Gupta,	Materials Today: Proceedings	2018	0	0	0
“Hyper Immune Response against T-2 Mycotoxin in Oryctolagus cuniculus	Narendra Kumar S, Lingayya Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava	Research Journal Pharm. and Tech	2019	0	0	0
Impact of Plant-microbe interactions on plant metabolism under saline environment	Praveen Kumar Gupta, Yuvashankar K	A Book Chapter of Salt Stress, Microbes and Plant Interactions: Causes and Solution	2019	0	0	0
Analysis of Tuberculosis metagenome towards pathogenicity & screen of interlogs in human”	Tanusree Chaudhuri, Vidya Niranjana, A.H. Manjunath Reddy	Journal of Pharma Research	2019	0	0	0
“Extraction of petrichor and essential oils for the production of Novelty fragrance products”	Aishwarya Vittal, Srikanth B S, Sumathra Manokaran, A.H. Manjunatha Reddy	J. Pharm. Sci. & Res. Vol.	2019	0	0	0
“Prevalence of hypertension and its associated risk factors”	Pratheek Sharma, Harshit Beria, Praveen Kumar Gupta, Sumathra Manokaran, A.H. Manjunatha Reddy	J. Pharm. Sci. & Res	2019	0	0	0
Analysis of Tuberculosis metagenome towards pathogenicity and screen of interlogs in human”	Tanusree Chaudhuri, Vidya Niranjana, A.H. Manjunath Reddy	“Journal of Pharma Research, 8(6): 395-401,	2019	0	0	0



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Chemo-profiling of Curcuma aromatica Salisbury rhizomes and leaves from South India”	Priyanka R, Vasundhara M and Manjunatha Reddy A H	Journal of Medicinal Plants Studies	2019	0	0	0
An Update on Nanoemulsions Using Nanosized Liquid in Liquid Colloidal Systems”	Praveen Kumar Gupta NividhaBhandari, Hardik N. Shah, Vartika Khanchandani, R. Keerthana, Vidhyavathy Nagarajan and Lingayya Hiremath	Nanoemulsions - Properties, Fabrications and Applications, Book Chapter,1(1), 1-20.	2019	0	0	0
The effect of chemical mutagens upon morphological characters of ginger (Zingiberofficinale) in M0 generation”	Neeta Shivakumar and PushpaAgrawal	Asian Journal of Microbiology, Biotechnology and Environmental Sciences.	2018	0	0	0
Smart packaging for the 21st century – economics, tends and sustainabilit	PhalgunMadhusudana and Neeta Shivakumar,	Materials Today proceedings,	2018	0	0	0
Evaluation of alternative bio receptors for pesticide detection.	Anjali Shenoy, Chandan M Reddy, Shree Padma M, Vidya Niranjana, Nagashree N Rao,	Materials Today Proceedings-Elsevier	2018	0	0	0
Green Synthesis and Characterization of Multifunctional Zinc Oxide Nanomaterials using Extract of MoringaOleifera Seed	Rajeswari M, PushpaAgrawal, Praveen Kumar Gupta	Materials Today Proceedings-Elsevier	2018	0	0	0
“Detection of Stress using Biosensor	Praveen Kumar Gupta, Simran Singh, Rajeswari M, Tabitha Janumala	Materials Today: Proceedings	2018	0	0	0

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Extraction of Phytochemicals from Eucalyptus Spp. & Withania Somnifera and Their Biological Testing”	Praveen Kumar Gupta, Priyanka V, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar Srivastava.	American Journal of Microbiological Research	2018	0	0	0
“Functionalized Cellulose Nanofiber –Composite Membranes for Wastewater Treatment -a Review	Lingayya Hiremath* Praveen Kumar Gupta, Narendra Kumar S, Ajeeth Kumar Srivastava, Narayan A V, Sindhu Rajendran, Ravi K M, Mahadevi Narasanagi and Sukanya P.	Journal of Nanotechnology and Materials Science.	2018	0	0	0
A Review on Rheumatic Heart Disease”.	Priyanka V, Praveen Kumar Gupta	Journal of Cardio Vascular Diseases	2018	0	0	0
, A trend in future bioenergy - A review	Praveen Kumar Gupta, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar Srivastava, V Shashikumar.	Journal of Pharmacy Research I	2018	0	0	0
Evaluation of Fungal Antagonists for Controlling Sugarcane (Var. CoC. 671) Red-rot Disease	Lingayya Hiremath, Praveen Kumar Gupta, S Narendra Kumar, Ajeet Kumar S, Keerthi N.S, Sukanya P	Journal of Pharmacy Research article	2018	0	0	0
Industrial Purification Strategies for Monoclonal Antibodies",	Narendra Kumar S; Lingayya Hiremath, Praveen Kumar Gupta, Ajeeth Kumar Srivastava, Poornima S	Research Journal of Pharmacy and Technology	2018	0	0	0

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Cloud Based Solutions for Genome Informatics: Challenges and Applicationeers	AkshathaPrasanna, PoojaR,Suchithra V, AkhilRavikumar, Vidya Niranjana,	Materials Today: Proceedings	2018	0	0	0
“Research Modelling of an Airlift Bioreactor using CFD and PBE for Production of PHB from Molasses	Vidya Niranjana	International Journal of Engineering Science and Computin	2018	0	0	0
“In vitro Micropropagation and Antioxidant Assay in Colocasiaesculenta	M.D. Akshatha, SmithaKavadikeri and Nagashree N. Rao,	Plant Tissue Cult. & Biotech.	2018	0	0	0
“Sustainable Production of Algal Biodiesel Using Chlorella Pyrenoidosa”	UchitBhaskar, SmrutiPimplikar, Alisha R Murugesha, Smitha K, Sumathra Manokaran and A H Manjunatha Reddy	Journal of Sciences	2018	0	0	0
<b>Electronics and Instrumentation Engineering</b>						
Brain Tumor Extraction using Morphological Reconstruction & Thresholding	Bala Malini G, Anand Jatti	Materials today proceedings	2018	2214-7853		0
Deepashree Devaraj, Dr. S. C. Prasanna Kumar, Suma R	A survey on segmentation of exudates and microaneurysms for early detection of Diabetic retinopathy	Materials today proceedings	2018	2214-7853		0
Padmaja, K.V, Vidya.M.J	Enhancing security of electronic patient record using watermarking technique	Materials Today: Proceedings	2018	2214-7853		0

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Kendaganna Swamy S, Anand Jatti, Uma.B.V	Reconfigurable High Performance Secured NoC Design using Hierarchical Agent-based Monitoring System	International Journal of Electrical and Computer Engineering	2018	2088-8708		0
Kendaganna Swamy S, Anand Jatti, Uma.B.V	Design and Implementation of Secured Agent based NoC using Shortest Path Routing Algorithm	International Journal of Electrical and Computer Engineering	2018	2088-8708		0
Yadhuraj. S.R., Sudarshan, B.G., Prasanna Kumar, S.C., Mahesh Kumar, D.	Study of PDMS material for ECG electrodes	Materials Today: Proceedings	2018	2214-7853		0
Yadhuraj, S.R., Sudarshan, B.G., Prasanna Kumar, S.C., Mahesh Kumar, D.	Analysis of linear and non-linear parameters of HRV for opting optimum parameters in wearable device	Materials Today: Proceedings	2018	2214-7853		0
<b>Telecommunication Engineering</b>						
Real Time Object Detection and Tracking Using Deep Learning and OpenCV	Chandan G., Jain A., Jain H., Mohana	Proceedings of the International Conference on Inventive Research in Computing Applications, ICIRCA 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	8
Object Detection Algorithms for Video Surveillance Applications	Raghunandan A., Mohana, Raghav P., Aradhya H.V.R.	Proceedings of the 2018 IEEE International Conference on Communication and Signal Processing, ICCSP 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	6

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Object Tracking Algorithms for Video Surveillance Applications	Mangawati A., Mohana, Leesan M., Aradhya H.V.R.	Proceedings of the 2018 IEEE International Conference on Communication and Signal Processing, ICCSP 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	5
Design of low power 8-bit carry select adder using adiabatic logic	Premananda B.S., Chandana M.K., Shree Lakshmi K.P., Keerthi A.M.	Proceedings of the 2017 IEEE International Conference on Communication and Signal Processing, ICCSP 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	5
Design and performance analysis of modified unsigned braun and signed Baugh-Wooley multiplier	Biradar V.B., Vishwas P.G., Chetan C.S., Premananda B.S.	International Conference on Electrical, Electronics, Communication Computer Technologies and Optimization Techniques, ICECCOT 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	5
Design of low power barrel shifter and vedic multiplier with kogge-stone adder using reversible logic gates	Nikhil G.V., Vaibhav B.P., Naik V.G., Premananda B.S.	Proceedings of the 2017 IEEE International Conference on Communication & Signal Processing, ICCSP 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	3
Classification of objects in video records using neural network framework	Biswas A., Jana A.P., Mohana, Sai Tejas S.	Proceedings of the International Conference on Smart Systems and Inventive Technology, ICSSIT 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	1
Design and Implementation of a Reconfigurable Digital Down Converter for 4G	Amulya K., Sadashivappa G.	Proc. IEEE Conference on Emerging Devices and Smart Systems, ICEDSS	2018		R. V. College of Engineering, Telecommunication	1

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Systems Using MATLAB and FPGA- A Review		2018			Engineering, Bengaluru, India	
PAPR optimization in MIMO-OFDM system for WiMAX	Sangannavar A., Reddy K.V.	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	1
Design and simulation of multiband fractal antenna with various geometries	Sowmya M., Nagaraju P., Totad S.B., Rakesh K.S.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	1
Wireless Communication in Medical Devices: Research Challenges	Hatagundi M.D., Sadashivappa G.	Proceedings of the 2nd International Conference on Trends in Electronics and Informatics, ICOEI 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Error-resilient transmission of image over challenging wireless communication channel	Gururaj B., Sadashivappa G.	AIP Conference Proceedings	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Design and Analysis of 2x2 MIMO system for WLANs - A Review	Sunitha S., Sadashivappa G.	Proc. IEEE Conference on Emerging Devices and Smart Systems, ICEDSS 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
A Review of Cognitive Radio Spectrum Sensing Methods in Communication	Sandya H.B., Nagamani K., Shavanthi L.	Proceedings of the 2018 IEEE International Conference on	2018		R. V. College of Engineering, Telecommunication	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
Networks		Communication and Signal Processing, ICCSP 2018			n Engineering, Bengaluru, India	
Inspection, Identification and Repair Monitoring of Cracked Concrete structure -An application of Image processing	Meghana R.K., Apoorva S., Mohana, Chitkara Y	Proceedings of the 3rd International Conference on Communication and Electronics Systems, ICCES 2018	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Detection of Micro Aneurysm in Fundus Images for the Monitoring of Diabetic Retinopathy	Sukeerthi G., Sindhu R., Rakesh K.R.	2nd International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Performance analysis of non uniform linear arrays using MUSIC algorithm for under water communication	Fawad I., Kumaraswamy H.V.	2nd International Conference on Circuits, Controls, and Communications, CCUBE 2017 - Proceedings	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Design of W-band sheet beam Extended Interaction Klystron for millimeter-wave applications	Akshaya, Nagendra N.N., Srivastava A., Christie V.L.	Applied Electromagnetics Conference, AEMC 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Ultra wideband low noise amplifier for wireless applications	Kamat S., Sreelakshmi K., Kumar R.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0



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Development of road sign recognition for ADAS using OpenCV	Botekar N.P., Mahalakshmi M.N.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Design and simulation of 4W RF power amplifier for LTE band 28	Ravikumar S., Nagendra N.N., Kothari M.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Design, analysis and comparison of the performance of 24 element swastik-Novell shaped microstrip patch antenna array	Girish B.S., Sadashivappa G.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Analysis of Energy Aware Sleep Scheduling Routing protocol(EASSR) in wireless sensor networks	Sanjana S., Shavanthi L., Bhagya R.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Interdigital band pass filters for duplexer realization for LTE band 28	Basavaraju D.R., Kumaraswamy H.V., Kothari M., Kamat S.	Proceedings of 2017 International Conference on Intelligent Computing and Control, I2C2 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
High spatial resolution hyperspectral image using fusion technique	Suchitha K., Premananda B.S., Singh A.K.	Proceedings - International Conference on Trends in Electronics and Informatics, ICEI 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0

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Fault diagnosis with statistical properties and implementation using MKSVM for flash ADC	Nagaraja P., Sadashivappa G.	Proceedings of the 2017 IEEE International Conference on Communication and Signal Processing, ICCSP 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Metasurface based low profile reconfigurable antenna	Kumar P.P., Sreelakshmi K., Sangeetha B., Narayan S.	Proceedings of the 2017 IEEE International Conference on Communication and Signal Processing, ICCSP 2017	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Novel mechanism of classifying the brain tumor for identifying its critical state	Murthy T.S.D., Sadashivappa G., Shankar D.R.	International Journal of Advanced Computer Science and Applications	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Fault Diagnosis of 16 bit digital to analog converter using national instruments-multisim and implementation using Support Vector Machines	Nagaraja P., Sadashivappa G.	Journal of Computational and Theoretical Nanoscience	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
An energy-efficient, coalition game theory based hierarchical routing protocol for WSNs	Premananda B.S., Neti N.K., Ashwin K.P., Basu S.V.	International Journal of Computers and Applications	2018		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Development of LIN 2.1 driver with SAE standards for RL78 microcontroller	Vishwas P.G., Premananda B.S.	Advances in Intelligent Systems and Computing	2018		R. V. College of Engineering, Telecommunication	0

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					n Engineering, Bengaluru, India	
A review of artificial intelligence methods for data science and data analytics: Applications and research challenges	Krishna C.V., Rohit H.R., Mohana	Proceedings of the International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2018	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Background-modelling techniques for foreground detection and Tracking using Gaussian Mixture Model	Meghana R.K., Chitkara Y., Apoorva S., Mohana	Proceedings of the 3rd International Conference on Computing Methodologies and Communication, ICCMC 2019	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	1
Simulation of object detection algorithms for video surveillance applications	Mohana, Ravish Aradhya H.V.	Proceedings of the International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2018	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	1
Design of Low-Power Square Root Carry Select Adder and Wallace Tree Multiplier Using Adiabatic Logic	Ganavi M.G., Premananda B.S.	Lecture Notes in Electrical Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	1
Automation of switching in COADM using machine learning algorithm	Khanure D., Reddy B.R.	International Journal of Innovative Technology and Exploring Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Compact QCA based JK flip-flop for digital system	Premananda B.S., Soundarya S., Chaitra Dechamma K.S.	International Journal of Innovative Technology and Exploring Engineering	2019		R. V. College of Engineering, Telecommunication	0

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					n Engineering, Bengaluru, India	
Design of class F power amplifier for 2.4ghz using third harmonics	Krishna Prasad S., Shambulinga M.	International Journal of Recent Technology and Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Performance Analysis of Channel Coding Techniques for Cooperative Adhoc Network	Arpitha R., Chaithra B.R., Padma U.	Proceedings of the 3rd International Conference on Electronics & Communication and Aerospace Technology, ICECA 2019	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
RF Planning and Optimization Practices Applied to Improve the KPI's of 4G LTE Network	Angadi A.V., Yashaswini S.D., Balaji K., Padma U.	Proceedings of the 3rd International Conference on Electronics and Communication and Aerospace Technology,	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Performance analysis of low power 8-tap FIR filter using PFAL	Premananda B.S., Ganavi M.G.	International Journal of Innovative Technology and Exploring Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Object detection and classification algorithms using deep learning for video surveillance applications	Mohana, Ravish Aradhya H.V.	International Journal of Innovative Technology and Exploring Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Waveform Analysis and Feature Extraction from Speech Data of Dysarthric	Balaji V., Sadashivappa G.	2019 6th International Conference on Signal Processing and Integrated	2019		R. V. College of Engineering, Telecommunication	0

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Persons		Networks, SPIN 2019			n Engineering, Bengaluru, India	
Design of dual band micro strip antenna for 2.4 Ghz and 3.6 Ghz	Soundarya S., Meghana S., Shanthi P.	International Journal of Recent Technology and Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Fault diagnosis of delta sigma ADC using national instruments-multisim & implementation using SVM	Nagaraja P., Sadashivappa G.	Proceedings of the 2019 IEEE International Conference on Communication and Signal Processing, ICCSP 2019	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
A comprehensive survey on different attacks on SDN and approaches to mitigate	Hatagundi M.D., Kumaraswamy H.V.	Proceedings of the 3rd International Conference on Computing Methodologies and Communication, ICCMC 2019	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Direction Finding Capability in Bluetooth 5.1 Standard	Suryavanshi N.B., Viswavardhan Reddy K., Chandrika V.R.	Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Development of Hybrid Algorithm for Masquerading Sink Node Location in WSN	Sindhudhar K.L., Premananda B.S.	Lecture Notes in Electrical Engineering	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Improved WEMER	Thashrifa K.K., Bhagya R.	Lecture Notes in Electrical	2019		R. V. College of	0

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Protocol for Data Aggregation in Wireless Sensor Networks		Engineering			Engineering, Telecommunication Engineering, Bengaluru, India	
Analysis of doppler effects in underwater acoustic channels using parabolic expansion modeling	Ranjani G., Sadashivappa G.	International Journal of Advanced Computer Science and Applications	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
Automated glaucoma detection using global statistical parameters of retina fundus images	Puthren P.R., Agrawal A., Padma U.	Lecture Notes in Computational Vision and Biomechanics	2019		R. V. College of Engineering, Telecommunication Engineering, Bengaluru, India	0
<b>Mechanical Engineering</b>						
Optimization of parameters for maximizing photocatalytic behaviour of Zn <sub>1-x</sub> Fe <sub>x</sub> O nanoparticle for methylene orange degradation using Taguchi and gray relational analysis approach	M. Jena, C Manjunatha, B W Shivaraj, G Nagaraju, S Ashoka, M P shamaan	Materials Today Chemistry	2019	3.6	RV College of Engineering	0
Synthesis & Characterisation of Spin coated clay / PVDF Thin films	T S Roopa, H N N Murthy, Swathi H S, Gangadhar Angadi, Harish D V N	Bulletin of Materials Science - Springer Publications	2019	1.2	RV College of Engineering	0
Miscibility studies of plastic mimetic polypeptide with Hydroxy Propyl Methyl Cellulose blends & generation of non oven	B Mahesh, D Kathyayani, R Sridhar	Carbohydrate Polymers	2019	6.2	RV College of Engineering	0

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fabrics						
Comparison of tribological behaviours of ABS and ABS/ Wollastonite composites under normal condition	Prapul chandra, Byregowda, Gangadhar	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	0.88	RV College of Engineering	0
Investigation of effects of electroplating and filler materials on the tensile properties of wollastonite reinforced ABS composites	Prapul chandra, Byregowda, Gangadhar	Journal of Physics, IOP Conference Series, NITK Surathkal	2019	0.54	RV College of Engineering	0
Evaluation of nanosecond laser ablation and scratch resistance of tantalum carbide coated graphite substrates	DVN Harish, A Bharatish, HN Narasimha Murthy, B Anand, Lingappa Rangaraj	Ceramics International	2019	3.64	RV College of Engineering	0
Thermal fatigue analysis of H13 steel die adopted in pressure-die-casting process	VA Girisha, Manoj M Joshi, LJ Kirthan, A Bharatish, Ramakrishna H	Sadhana Springer	2019	1.0	RV College of Engineering	0
Energy-harvesting enhancement in composites of microwave-exfoliated KNN and multiwall carbon nanotubes	NR Nadar, M Krishna, AV Suresh	Bulletin of Materials Science	2019	1.2	RV College of Engineering	0
Microstructure, mechanical and wear properties of the A357 composites reinforced with dual sized SiC particles	A Lakshmikanthan, S Bontha, M Krishna, PG Koppad, T Ramprabhu	Journal of Alloys and Compounds	2019	4.35	RV College of Engineering	3
Metal Air Battery Shell	Moin Ahmed Khan,	International Journal of	2019		RV College of	0



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Unit Redesign with DFMA Aspect and Rapid prototyping	Gangadhar Angadi, Ankush Raina	Recent Technology and Engineering,			Engineering	
Performance Analysis of Four Stroke Multi Cylinder Internal Combustion Engine Running on Diesel Fuel Blended with Transesterified Sesame Oil	Prapul Chandra, Sharath Chandra, TG Gangadhar, GA Narahari	International Journal of Applied Engineering Research	2019	0.51	RV College of Engineering	0
Effect of chopped /continuous fiber, coupling agent and fiber ratio on the mechanical properties of injection-molded jute/ polypropylene composites	Sandhyarani Pailoor, H N Narasimha Murthy, Prakash Hadimani & T N	Journal of Natural Fibers	2019	1.47	RV College of Engineering	2
Drilling of In-Line Compression Molded Jute /Polypropylene Composites	Sandhyarani Pailoor, H. N. Narasimha Murthy & T. N. Sreenivasa	Journal of Natural Fibers	2019		RV College of Engineering	0
Joining of tubular steel– steel by unconventional magnetic pulse force: environmentally friendly technology	K Shanthala, T N Srinivas, H N Narasimha Murthy, Shantharam Dond, Hitesh Choudhury Archana Sharma	Bulletin of Materials Science - Springer Publications	2019	1.2	RV College of Engineering	0
Analysis of Fir Tree Root of Aero-engine Disc Assembly for Simultaneous Optimization of Fretting Characteristics	Bharatish, A., Srihari, P.V., Panchal, A., Narasimhamurthy, H.N.	Journal of The Institution of Engineers (India): Series C	2019	0.75	RV College of Engineering	0
Artificial neural networks methodologies to optimize engine performance	Balaji Ganesh, N., Srihari, P.V.	Lecture Notes in Mechanical Engineering	2019	0.37	RV College of Engineering	0

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parameters using MATLAB						
Constitutive modeling of smart adaptive composite with inactive SMP	Noolvi, B., Raja, S., Nagaraj, S.	Materials Today: Proceedings	2019	0.96	RV College of Engineering	0
Experimental investigation of drilling small hole on duplex stainless steel (SS 2205) using EDM	Rajaram, S., Rajkumar, G., Balasundaram, R., Srinivasan, D.	Mechanics and Mechanical Engineering	2019	0.73	RV College of Engineering	0
Experimental Studies on Strength Behaviour of Notched Glass/ Epoxy Laminated Composites under Uni-axial & Bi-axial Loading	Guptha, V.L.J., Sharma, R.S.	Journal of The Institution of Engineers (India): Series C	2019	0.75	RV College of Engineering	0
Experimental studies on the tensile and flexural properties of epoxy based unidirectional glass/carbon interlayer hybrid composites	Pujar, N.V., Nanjundaradhya, N.V., Sharma, R.S.	AIP Conference Proceedings	2019	0.39	RV College of Engineering	0
Investigation of effect of CO2 laser parameters on drilling characteristics of rocks encountered during mining	Bharatish, A., Kishore Kumar, B., Rajath, R., Narasimha Murthy, H.N.	Journal of King Saud University - Engineering Sciences	2019	3.4	RV College of Engineering	0
Modelling and simulation of electro-hydraulic circuit used in hydraulic power pack of A CNC machine tool	Ramesh, S., Denis Ashok, S., Nagaraj, S.	International Journal of Recent Technology and Engineering	2019		RV College of Engineering	0
Optimization of composite process parameters on fracture toughness of glass	Muralidhara, H., Suresh, R., Krishna, M.	International Journal of Recent Technology and Engineering	2019		RV College of Engineering	0

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
fiber reinforced plastics						
Studies on dry sliding wear characteristics of Cermet WC-Co particulate reinforced Al7075 metal matrix composite	Gopal Krishna, U.B., Ranganatha, P., Rajesh, G.L., (...), Mahendra Kumar, S., Vasudeva, B.	Materials Today: Proceedings	2019	0.96	RV College of Engineering	0
Studies on the effect of turning operation on mean cutting force and cutting power of AISI 3415 alloy steel	Venkatesh, P., Sivaprakasam, R.	International Journal of Innovative Technology and Exploring Engineering	2019		RV College of Engineering	0
The effect of machining factors on surface roughness and flank wear while turning steel alloy AISI 3415 using TiAlN coated carbide insert	Venkatesh, P., Sivaprakasam, R.	International Journal of Recent Technology and Engineering	2019		RV College of Engineering	0

#### 3.4.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
<b>Chemical Engineering</b>						
Synthesis of porous graphene	Basavaraja R. J, Siddhant	AIP Journal: AIP	2018	2	0	RV College of

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
powder through improved Hummers' method	Gupta, Shrilakshmi Bonageri, Siddarth Krishnaraja Achar, and Atul Menon,	conference proceeding				Engineering
Environmental Effect Studies on Aviation Contrails and Cirrus Clouds	Vinutha Moses and Sudeep M	Environment Asia	2018	0	0	RV College of Engineering
Development of a bioresin from organic waste and its application to make high strength composites	Sumedha Bhat, , Vinutha Moses, Akshay C. and Rishil Rai	AIP Journal: AIP conference proceedings	2018	0	0	RV College of Engineering
Nanotechnology-As antibacterial and heavy metal removal in wastewater treatment – A review	Vinutha Moses et al.,	AIP Journal: AIP conference proceeding	2018	0	0	RV College of Engineering
<b>Electronics and Communication Engineering</b>						
Design and analysis of high-speed 8-bit ALU using 18 nm FinFET technology	N. Shylashree, B. Venkatesh, TM. Saurab, Tarun Srinivasan Vijay Nath	Microsystem Technologies, Springer	2019	0	0	RV College of Engineering
<b>Master of Computer Applications</b>						
Lightweight Security Protocol for Efficient Information Transfer in Sensor Networks	Dr ManjuPrasad, Dr Andhe Dharani	International Journal of Recent Technology and Engineering (IJRTE)	2019		0	RV College of Engineering
Methodologies in Face Recognition for Surveillance	Dr Andhe Dharani	3rd IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions 2018	2018		0	RV College of Engineering
Mobile as a sensor in Intelligent Transportation	Dr Andhe Dharani, Dr Vijayalakshmi MN	International Conference on Computing, Power &	2018		0	RV College of Engineering

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
System for Street Route		Communication Technologies (GUCON-2018)				
Overload Control with Hybrid SIP Signaling - Using Smart Reliability and Priority Queuing Strategies"	Mr Jayasimha, Dr Usha J	International Journal of Recent Technology and Engineering (IJRTE)	2019		0	RV College of Engineering
A Comprehensive review of Energy Efficiency in Cloud Computing Environment	Dr Usha J , Jayasimha SR	International Journal of Engineering and Technology, UAE	2018		0	RV College of Engineering
Risk Based Thinking And Contingency Modeling In Leadership & Administration For Quality Management In Higher Education	Dr Jasmine KS	International Journal of Risk and Contingency Management (IJRCM)	2018		0	RV College of Engineering
Analysis Of Liver Disease And Hcc Inducing Factors Using Machine Learning Algorithms	Dr Vijayalakshmi MN	2 <sup>nd</sup> International Conference on Intelligent Data Communication Technologies & Internet Of Things ICICI 2019 Springer, Cham	2019		0	RV College of Engineering
Design of Dashboard for University Examination Result Analysis System	Dr Vijayalakshmi MN	3 <sup>rd</sup> IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions 2018	2018		0	RV College of Engineering
Computational Intelligence for Data Analytics	Dr S Anupama Kumar, Dr Vijayalakshmi MN, Dr Divya TL, Dr Subramanya KN	Recent Advances in Computational Intelligence” by Springer, Cham	2019		0	RV College of Engineering

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
Contemplation Of Computational Methods And Techniques To Predict Copd	Shaila H Koppad, Dr S Anupama Kumar	2 <sup>nd</sup> International Conference on Intelligent Data Communication Technologies & Internet of Things ICICI 2019 Springer, Cham	2019		0	RV College of Engineering
Efficiency Of Naiv Bayes Technique Based on Clustering To Detect Congestion In Wireless Sensor Network	Dr S Anupama Kumar	2 <sup>nd</sup> International Conference On Intelligent Data Communication Technologies & Internet Of Things ICICI-2019	2019		0	RV College of Engineering
Development of Wireless Sensor Network Congestion Detection Classifier Using Support Vector Machine	Dr S AnupamaKumar	3 <sup>rd</sup> International Conference on CSITSS	2018		0	RV College of Engineering
Application of Seasonal Analytics in Health Care Sector	Dr S Anupama Kumar	International Conference on Intelligent Data Communication Technologies & Internet of Things (ICICI) 2018	2018		0	RV College of Engineering
Identification on Top Trends of Public Opinion using Location based Sentiment Analysis	Mr Vishal C	International Journal of Innovative Technology and Exploring Engineering published by (IJITEE)	2018		0	RV College of Engineering
Application of Seasonal Analytics in Health Care Sector	Dr S Anupama Kumar	International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018	2018		0	RV College of Engineering

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
Identification on Top Trends of Public Opinion using Location based Sentiment Analysis	Mr Vishal C	International Journal of Innovative Technology and Exploring Engineering published by (IJITEE)	2018		0	RV College of Engineering
An Approach for Improving Data Accuracy by Contrasting Classification and Clustering Techniques using Sentiment Analysis	Mr Vishal C	Journal of Advanced Research in Dynamical and Control Systems (JARDCS)	2019			RV College of Engineering
Detection and Classification of Microaneurysms and Haemorrhages from Fundus Images for Efficient Grading of Diabetic Retinopathy	SavithaSheelavant, Dr Preethi N Patil	3 <sup>rd</sup> IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2018)	2018		0	RV College of Engineering
Defending Selective Forwarding Attacks in Underwater Acoustic Networks Applying Trust Model	Dr Nagamuthu Krishnan SS	2nd International Conference on Electronics, Communication and Aerospace Technology (ICECA 2018)	2018		0	RV College of Engineering
Impact of Learning Functions on Prediction of Stock Data In Neural Network	Dr Manjunath M	3 <sup>rd</sup> IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions CSITSS 2018	2018		0	RV College of Engineering



<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
An Approach for Improving Data Accuracy by Contrasting Classification and Clustering Techniques using Sentiment Analysis	Mr Vishal C	Journal of Advanced Research in Dynamical and Control Systems (JARDCS)	2019		0	RV College of Engineering
Detection and Classification of Microaneurysms and Haemorrhages from Fundus Images for Efficient Grading of Diabetic Retinopathy	SavithaSheelavant, Dr Preethi N Patil	3rd IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2018)	2018		0	RV College of Engineering
Defending Selective Forwarding Attacks in Underwater Acoustic Networks Applying Trust Model	Dr Nagamuthu Krishnan SS	2nd International Conference on Electronics, Communication and Aerospace Technology (ICECA 2018)	2018		0	RV College of Engineering
Impact of Learning Functions on Prediction of Stock Data In Neural Network	Dr Manjunath M	3rd IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions CSITSS 2018	2018		0	RV College of Engineering
Performance Analysis of Petal Ant Routing (PAR) and Dynamic Source Routing (DSR) in MANET using	Dr ManjunathM	IEEE Second World Conference on Smart Trends in Systems, Security and	2018		0	RV College of Engineering

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Network Simulator (NS2)		Sustainability				
<b>Physics</b>						
Synthesis of polyaniline/ MWCNTs by interfacial polymerization for superior hybrid supercapacitance performance	B. P. Prasanna, D. N. Avadhani, K. Chaitra, N. Nagaraju, N. Kathyayini	Journal of Polymer Research	2018	4	0	RV College of Engineering
Synthesis and crystal structure studies of 3,3-bis(methylthio)-1-(4 (trifluoromethyl) phenyl) prop-2-en-1-one and 3,3-bis(methylthio)-1-(thiophen-2-yl)prop-2-en-1-one derivatives	M. Munvar Hussain Shamantha Kumar A. C., Vinayaka T. Bhuvaneswara Babu, B. G. Devika B. M Rajesh and B. H. Doreswamy		2018		0	RV College of Engineering
Measurement of the full electron spectrum associated with the Ag N3VV Auger transitions: Evidence for the contribution of multi-electron Auger processes	P.V. Joglekara, R.W. Gladena V.A. Chirayath, A.J. Fairchild S. Kalaskar, K. Shastry, Q. Dong, S.L. Hulbert R.A. Bartynski, W.S.M. Werner, A.H. Weiss	Journal of Electron Spectroscopy and Related Phenomena	2019		0	RV College of Engineering
<b>Electrical and Electronics Engineering</b>						
Enhanced real time coordination of Distance and user defined Overcurrent relays	S G Srivani	International Journal of electrical power and Energy systems	2018	6	9	RV College of Engineering
Interactive Graphical User Interface (GUI) for Wind Speed Prediction Using Wavelet and Artificial Neural Network	Prema V, Uma Rao K	Journal of The Institution of Engineers (India)	2018	11	2	RV College of Engineering
Simulation of Cortical	A Sridevi	Computational Vision	2018	3	1	RV College of

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Epileptic Discharge using Freema's KIII Model		and Bio inspired Computing, Springer				Engineering
Low Speed Estimation of Sensorless DTC Induction motor Drives using MRAS with Neuro Fuzzy Adaptive Controller	M N Dinesh	International Journal of Electrical and Computing Engineering	2018	3	1	RV College of Engineering
<b>Biotechnology</b>						
Classification of Mycobacterium tuberculosis DR, MDR,XDR Isolates and identification of signature Mutation pattern of drug resistance	Prasanna, Akshatha and Vidya Niranjana	Bioinformation	2019	0	0	R V College of Engineering
Evaluation of alternative bioreceptors for pesticide detection	Nagashree N Rao, Vidya niranjan	Matreials Today: Proceedings	2018	0	0	R V College of Engineering
Cloud based solutions for Genome informatics: Challenges and Applications	Vidya Niranjana, Suchitra, Pooja R, AkshathaPrassanna	Matreials Today: Proceedings	2018	0	0	R V College of Engineering
Green Synthesis and Characterization of multifunctional zinc Oxide Nanomaterials using Extract of MoringaOleifera seed	Rajeswari M, PushphaAgrawal, Praveen Kumar Gupta,	Matreials Today: Proceedings	2018	0	0	R V College of Engineering
A method of producing high amount of ethanol at high temperature by modified yeast strain Saccharomyces Cerevisiae	PushphaAgrawal,	US Patent App 15/776, 317	2018	1	1	R V College of Engineering
"Hyper Immune Response	Narendra Kumar S, Lingayya	Research Journal Pharm.	2019	0	0	R V College of

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
against T-2 Mycotoxin in <i>Oryctolaguscuniculus</i>	Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava	and Tech. 12(1),				Engineering
“Isolation and Screening of Lipase Producing Microbes from Oil Contaminated Soil	Vishwanatha T Sharangouda J. Patil, Siddalingeshwar K. G. and Lingayya Hiremath	A Book Chapter of Original Research Articles Submitted for publication in Advances in Bioplastics 1(2), 07-13	2019	0	0	R V College of Engineering
“Synthesis and Biological Applications of Polyhydroxyalkanoates (PHA) & Polylacticacid (PLA): A Review	Sudeep M, Pratham Kumar N, Raghav Raja, and Neeta Shivkumar	A Book Chapter of Original Research Articles Submitted for publication in Advances in Bioplastics 1(2), 97-109,	2019	0	0	R V College of Engineering
Impact of Plant-microbe interactions on plant metabolism under saline environment	Praveen Kumar Gupta, Yuvashankar K	A Book Chapter of Salt Stress, Microbes & Plant Interactions: Causes and Solution 1(5), 113-128,	2019	0	0	R V College of Engineering
Analysis of Tuberculosis metagenome towards pathogenicity and screen of interlogs in human”	TanusreeChaudhuri, Vidya Niranjana, A.H. Manjunath Reddy	“Journal of Pharma Research, 8(6): 395-401,	2019	0	0	R V College of Engineering
Extraction of petrichor and essential oils for the production of Novelty fragrance products”	Aishwarya Vittal , Srikanth B S , Sumathra Manokaran, A.H. Manjunatha Reddy	J. Pharm. Sci. & Res. Vol. 11(6), 2168-2173	2019	0	0	R V College of Engineering
“Prevalence of hypertension and its associated risk factors”	Pratheek Sharma, Harshit Beria, Praveen Kumar Gupta, Sumathra Manokaran, A.H. Manjunatha Reddy	J. Pharm. Sci. & Res. 11(6), 2161-2167,	2019	0	0	R V College of Engineering
Chemo-profiling of Curcuma aromatica Salisbury rhizomes	“Priyanka R, Vasundhara M and Manjunatha Reddy A H	Journal of Medicinal Plants Studies, 7(4):	2019	0	0	R V College of Engineering

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
and leaves from South India”		260-262,				
“An Update on Nanoemulsions Using Nanosized Liquid in Liquid Colloidal Systems”	Praveen Kumar Gupta, NividhaBhandari, Hardik N. Shah, VartikaKhanchandani, R. Keerthana, Vidhyavathy Nagarajan, Lingayya Hiremath	Nanoemulsions - Properties, Fabrications and Applications, Book Chapter,1(1), 1-20.	2019	0	0	R V College of Engineering
“The Use of Modern Technology in Smart Waste Management and Recycling: Artificial Intelligence and Machine Learning”	Praveen Kumar Gupta, Vidhya Shree, Lingayya Hiremath and SindhuRajendran	Book Chapter, 1(2), 173-183,	2019	0	0	R V College of Engineering
“The effect of chemical mutagens upon morphological characters of ginger (Zingiberofficinale) in M0 generation”	Neeta Shivakumar and PushpaAgrawal	Asian Journal of Microbiology, Biotechnology and Environmental Sciences. Vol 20, 126-135,	2018	0	0	R V College of Engineering
Smart packaging for the 21st century – economics, trends and sustainability	PhalgunMadhusudana and Neeta Shivakumar	Materials Today proceedings, 5 22087-22090	2018	0	0	R V College of Engineering
Genetic Diversity of NMT gene in Coffee using SCAR Marker	Neeta Shivakumar and PushpaAgrawal	International Journal of Advanced Science and Research Vol. 3(2) 116-119.	2018	0	0	R V College of Engineering
“Smart Drug Delivery Systems for Cancer Treatment Using Nanomaterials	AkshathaPrasanna, Pooja R, Suchithra V, AkhilRavikumar, Praveen Kumar Gupta, Vidya Niranjana	Materials Today” Proceedings-Elsevier 5, 21047–21054	2018	0	0	R V College of Engineering
Development of eco-friendly biodegradable bio-composites.	Ashwani Sharma, Nagashree N Rao, M S Krupashankara	Materials Today Proceedings-Elsevier 5, 20987– 20995	2018	0	0	R V College of Engineering
Evaluation of alternative bio	Anjali Shenoy, Chandan M	Materials Today	2018	0	0	R V College of

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
receptors for pesticide detection.	Reddy, Shree Padma M, Vidya Niranjana, Nagashree N Rao,	Proceedings-Elsevier 5, 20977– 20980				Engineering
Green Synthesis and Characterization of Multifunctional Zinc Oxide Nanomaterials using Extract of Moringa Oleifera Seed	Rajeswari M, PushpaAgrawal, Praveen Kumar Gupta,	Materials Today Proceedings-Elsevier 5, 20996–21002	2018	0	0	R V College of Engineering
“Detection of Stress using Biosensor	Praveen Kumar Gupta, Simran Singh, Rajeswari M, Tabitha Janumala	Materials Today: Proceedings Elsevier 5, 21003–21010	2018	0	0	R V College of Engineering
“Extraction of Phytochemicals from Eucalyptus Spp. & Withania Somnifera and Their Biological Testing”	Praveen Kumar Gupta, Priyanka V, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar Srivastava.	American Journal of Microbiological Research Vol. 6, No. 4, 115-123.	2018	0	0	R V College of Engineering
“Functionalized Cellulose Nanofiber –Composite Membranes for Wastewater Treatment -a Review	Lingayya Hiremath* Praveen Kumar Gupta, Narendra Kumar S, Ajeeth Kumar Srivastava, Narayan A V, Indhu Rajendran, Ravi K M, Ahadevi Narasanagi and Sukanya P.	Journal of Nanotechnology and Materials Science. Vol 5:1 pp35/43	2018	0	0	R V College of Engineering
A Review on Rheumatic Heart Disease”.	Priyanka V, Praveen Kumar Gupta	“Journal of Cardio Vascular Diseases. 9(3):109-114.	2018	0	0	R V College of Engineering
A trend in future bioenergy - A review	Praveen Kumar Gupta, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar Srivastava, V Shashikumar.	Journal of Pharmacy Research   Vol 12 • Issue 2 • Page 200-205	2018	0	0	R V College of Engineering
Evaluation of Fungal Antagonists for Controlling	Lingayya Hiremath*, Praveen Kumar Gupta, S Narendra	Journal of Pharmacy Research article	2018	0	0	R V College of Engineering

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Sugarcane (Var. CoC. 671) Red-rot Disease	Kumar, Ajeet Kumar Srivastava, Keerthi N.S, Sukanya P	manuscript Number. Vol 12 • Issue 1 • Page 134-140.				
Industrial Purification Strategies for Monoclonal Antibodies",	Narendra Kumar S; Lingayya Hiremath, Praveen Kumar Gupta, Ajeeth Kumar Srivastava, Poornima S	Research Journal of Pharmacy & Technology 12(1),2017, page 1827-1832	2018	0	0	R V College of Engineering
“Cloud Based Solutions for Genome Informatics: Challenges & Applications”	Akshatha Prasanna, PoojaR, Suchithra V, AkhilRavikumar, Vidya Niranjana,	Materials Today: Proceedings, 5 10652–10659	2018	0	0	R V College of Engineering
Research Modelling of an Airlift Bioreactor using CFD and PBE for Production of PHB from Molasses”	Vidya Niranjana	International Journal of Engineering Science and Computing, 5(7). 11793 – 11797,	2018	0	0	R V College of Engineering
In vitro Micropropagation and Antioxidant Assay in Colocasia esculenta	M.D. Akshatha, SmithaKavadikeri and Nagashree N. Rao,	Plant Tissue Cult. & Biotech. 28(2): 183-190,	2018	0	0	R V College of Engineering
“Sustainable Production of Algal Biodiesel Using Chlorella Pyrenoidosa”	UchitBhaskar, SmrutiPimplikar, Alisha R Muruges, Smitha K, Sumathra Manokaran and A H Manjunatha Reddy	Journal of Sciences 17(4), 37-51,	2018	0	0	R V College of Engineering
<b>Electronics and Instrumentation Engineering</b>						
Development of an image based modelling tool for the spinal deformity detection using curve fitting technique	Tabitha Janumala, Dr.Ramesh K B, Mr. Harish A Haralachar	International Conference on Health and Medicine (ICHM-2018)	2018			RV College of Engineering
Efficient H.264 Decoder Architecture Using External Memory and Pipelinin	G.R. Poornima, S C Prasanna Kumar	Indonesian Journal of Electrical Engineering and Computer Science	2018	0.503	0	RV College of Engineering
Estimation of Spectral	CH.Renu Madhavi	Biomedical &	2018	0.463	0	RV College of

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Entropy of HRV Data and its Application to Depression and Thyroid Subjects to Predict Cardiac Risk		Pharmacology Journal				Engineering
Development of a hybrid framework to characterize red lesions for early detection of diabetic retinopathy	Deepashree Devaraj, Prasanna Kumar S.C.	Indonesian Journal of Electrical Engineering and Computer Science	2019	0.917	1	RV College of Engineering
A novel approach to jointly address localization and classification of breast cancer using bio-inspired approach	Sushma S. J, S. C. Prasanna Kumar	International Journal of Electrical and Computer Engineering (IJECE)	2019	1.544	0	RV College of Engineering
Segmentation of White Blood Cells using Integrated Process of Improved Spectral Angle Mapper, Gram-Schmidt Orthogonalization with KMeans Clustering	Puttamade Gowda. J, Prasanna Kumar S C	International Journal of Innovative Technology and Exploring Engineering	2019		0	RV College of Engineering
Design and implementation of secured agent based noc using shortest path routing algorithm	Kendaganna Swamy S, Anand Jatti, UmaB.V	International Journal of Electrical and Computer Engineering	2019	1.544	0	RV College of Engineering
Efficient design and fpga implementation of microarchitecture for network-on-chip routers	Amaresh, C., Jatti, A	International Journal of Innovative Technology and Exploring Engineering	2019		0	RV College of Engineering
<b>Mechanical</b>						
Optimization of parameters for maximizing photocatalytic behaviour of Zn1-xFexO nanoparticle for methyle	M. Jena, C Manjunatha, B W Shivaraj, G Nagaraju, S Ashoka, M P shamaan	Materials Today Chemistry	2019	8	0	RV College of Engineering



<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
orange degradation using thaguchi and gray relational analysis approach						
Synthesis & Characterisation of Spin coated clay / PVDF Thin films	T S Roopa, H N N Murthy, Swathi H S, Gangadhar Angadi, Harish D V N	Bulletin of Materials Science - Springer Publications	2019	63	0	RV College of Engineering
Miscibility studies of plastic mimetic polypeptide with Hydroxy Propyle Methyle Celluloac blends and generation of non oven fabrics	B Mahesh, D Kathyayani, R Sridhar	Carbohydrate Polymers	2019	172	0	RV College of Engineering
Comparison of tribological behaviours of ABS and ABS/ Wollastonite composites under normal condition	Prapul chandra, Byregowda, Gangadhar	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	9	0	RV College of Engineering
Investigation of effects of electroplating and filler materials on the tensile properties of wollastonite reinforced ABS composites	Prapul chandra, Byregowda, Gangadhar	NITK Surathkal	2019	65	0	RV College of Engineering
Evaluation of nanosecond laser ablation and scratch resistance of tantalum carbide coated graphite substrates	DVN Harish, A Bharatish, HN Narasimha Murthy, B Anand, Lingappa Rangaraj	Ceramics International	2019	89	0	RV College of Engineering
Thermal fatigue analysis of H13 steel die adopted in pressure-die-casting process	VA Girisha, Manoj M Joshi, LJ Kirthan, A Bharatish, Ramakrishna Hegde	Sadhana Springer	2019	43	0	RV College of Engineering
Energy-harvesting	NR Nadar, M Krishna, AV	Bulletin of Materials	2019	63	0	RV College of

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
enhancement in composites of microwave-exfoliated KNN and multiwall carbon nanotubes	Suresh	Science				Engineering
Microstructure, mechanical and wear properties of the A357 composites reinforced with dual sized SiC particles	A Lakshmikanthan, S Bontha, M Krishna, PG Koppad, T Ramprabhu	Journal of Alloys and Compounds	2019	145	3	RV College of Engineering
Metal Air Battery Shell Unit Redesign with DFMA Aspect and Rapid prototyping	Moin Ahmed Khan, Gangadhar Angadi, Ankush Raina	International Journal of Recent Technology and Engineering,	2019		0	RV College of Engineering
Performance Analysis of Four Stroke Multi Cylinder Internal Combustion Engine Running on Diesel Fuel Blended with Transesterified Sesame Oil	Prapul Chandra, Sharath Chandra, TG Gangadhar, GA Narahari	International Journal of Applied Engineering Research	2019	25		RV College of Engineering
Effect of chopped/ continuous fiber, coupling agent and fiber ratio on the mechanical properties of injection-molded jute/polypropylene omposites	Sandhyarani Pailoor, H N Narasimha Murthy, Prakash Hadimani & T N	Journal of Natural Fibers	2019	20	2	RV College of Engineering
Metal Air Battery Shell Unit Redesign with DFMA Aspect and Rapid prototyping	Moin Ahmed Khan, Gangadhar Angadi, Ankush Raina	International Journal of Recent Technology and Engineering,	2019		0	RV College of Engineering
Performance Analysis of Four Stroke Multi Cylinder Internal Combustion Engine Running on Diesel Fuel Blended with Transesterified Sesame Oil	Prapul Chandra, Sharath Chandra, TG Gangadhar, GA Narahari	International Journal of Applied Engineering Research	2019	25	0	RV College of Engineering
Effect of chopped/ continuous	Sandhyarani Pailoor, H N	Journal of Natural Fibers	2019	20	2	RV College of

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
fiber, coupling agent and fiber ratio on the mechanical properties of injection-molded jute/ polypropylene composites	Narasimha Murthy, Prakash Hadimani & T N					Engineering
Drilling of In-Line Compression Molded Jute /Polypropylene Composites	Sandhyarani Pailoor, H. N. Narasimha Murthy & T. N. Sreenivasa	Journal of Natural Fibers	2019	20	0	RV College of Engineering
Joining of tubular steel–steel by unconventional magnetic pulse force: environmentally friendly technology	K Shanthala, T N Srinivas, H N Narasimha Murthy, Shantharam Dond, Hitesh Choudhury Archana Sharma	Bulletin of Materials Science - Springer Publications	2019	63	0	RV College of Engineering
Analysis of Fir Tree Root of Aero-engine Disc Assembly for Simultaneous Optimization of Fretting Characteristics	Bharatish, A., Srihari, P.V., Panchal, A., Narasimhamurthy, H.N.	Journal of The Institution of Engineers (India): Series C	2019	9	0	RV College of Engineering
Artificial neural networks methodologies to optimize engine performance parameters using MATLAB	Balaji Ganesh, N., Srihari, P.V.	Lecture Notes in Mechanical Engineering	2019	8	0	RV College of Engineering
Constitutive modeling of smart adaptive composite with inactive SMP	Noolvi, B., Raja, S., Nagaraj, S.	Materials Today: Proceedings	2019	18	0	RV College of Engineering
Experimental investigation of drilling small hole on duplex stainless steel (SS 2205) using EDM	Rajaram, S., Rajkumar, G., Balasundaram, R., Srinivasan, D.	Mechanics and Mechanical Engineering	2019	10	0	RV College of Engineering
Experimental Studies on Strength Behaviour of Notched Glass/Epoxy	Guptha, V.L.J., Sharma, R.S.	Journal of The Institution of Engineers (India): Series C	2019	9	0	RV College of Engineering

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
Laminated Composites under Uni-axial and Bi-axial Loading						
Experimental studies on the tensile and flexural properties of epoxy based unidirectional glass/ carbon interlayer hybrid composites	Pujar, N.V., Nanjundaradhya, N.V., Sharma, R.S.	AIP Conference Proceedings	2019	60	0	RV College of Engineering
Investigation of effect of CO2 laser parameters on drilling characteristics of rocks encountered during mining	Bharatish, A., Kishore Kumar, B., Rajath, R., Narasimha Murthy, H.N.	Journal of King Saud University - Engineering Sciences	2019	20	0	RV College of Engineering
Modelling and simulation of electro-hydraulic circuit used in hydraulic power pack of A CNC machine tool	Ramesh, S., Denis Ashok, S., Nagaraj, S.	International Journal of Recent Technology and Engineering	2019		0	RV College of Engineering
Optimization of composite process parameters on fracture toughness of glass fiber reinforced plastics	Muralidhara, H., Suresh, R., Krishna, M.	International Journal of Recent Technology and Engineering	2019		0	RV College of Engineering
Studies on dry sliding wear characteristics of Cermet WC-Co particulate reinforced Al7075 metal matrix composite	Gopal Krishna, U.B., Ranganatha, P., Rajesh, G.L., (...), Mahendra Kumar, S., Vasudeva, B.	Materials Today: Proceedings	2019	18	0	RV College of Engineering
Studies on the effect of turning operation on mean cutting force and cutting power of AISI 3415 alloy steel	Venkatesh, P., Sivaprakasam, R.	International Journal of Innovative Technology and Exploring Engineering	2019		0	RV College of Engineering
The effect of machining	Venkatesh, P., Sivaprakasam,	International Journal of	2019		0	RV College of

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
factors on surface roughness and flank wear while turning steel alloy AISI 3415 using TiAlN coated carbide insert	R.	Recent Technology and Engineering				Engineering

<b>3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :</b>				
<b>No. of Faculty</b>	<b>International level</b>	<b>National level</b>	<b>State level</b>	<b>Local level</b>
<b>Chemical Engineering</b>				
Attended Seminars/ Workshops	-	6	-	-
Presented papers	2	-	-	-
Resource Persons	-	-	2	-
Chemistry				
Attended Seminar/ Workshops	-	06	-	01
Presented papers	05	-	-	-
Resource persons	-	-	-	-
<b>Electronics and Communication Engineering</b>				
Attended Seminar/Workshops	-	2	2	7
Presented papers			3	
Resource persons	-	-	11	-
Attended Seminars/ Workshops	-	-	02	1/ 5
Presented papers	35	01	-	-
Resource Persons	-	-	-	10
<b>Master of Computer Applications</b>				
Attended Seminars/ Workshops				19
Presented papers	07			
Resource Persons			08	10
<b>Electrical and Electronics Engineering</b>				
Attended Seminars/ Workshops	2	48	-	-
Presented papers	5	8	-	-
Resource Persons	1	18	-	-
<b>Industrial Engineering and Management</b>				
Attended Seminars/ Workshops	<u>6</u>	<u>12</u>	<u>3</u>	<u>8</u>
Presented papers	<u>16</u>	<u>10</u>	<u>8</u>	<u>-</u>
Resource Persons	<u>2</u>	<u>1</u>	<u>-</u>	<u>2</u>
<b>Telecommunication Engineering</b>				
Attended Seminars/ Workshops	NIL	40	NIL	NIL
Presented papers	29	62	NIL	NIL
<b>3.5 Consultancy</b>				
<b>3.5.1 Revenue generated from Consultancy during the year</b>				
<b>Name of the Consultant(s) department</b>	<b>Name of Consultancy project</b>	<b>Consulting / Sponsoring Agency</b>	<b>Revenue generated (amount in Rs.)</b>	
HoD ISE	Conduction of: Data Sturcture & Algorithm exam by codchef	Directi Internet Solutions	55,696.00	
HoD Civil	Consultancy charges for 3rd party inspection at Ramangara Swimming pool	Department of youth Empowerment	53,100.00	
Dr T Raghavendra Dept of Civil Engg	Vetting of Structural Designs & Drawings for providing water supply scheme to Kuntoji and 17 other villages of Muddebihal	CRG Infratech Private Limited	3,89,400.00	
Dr Shanmukha Nagaraj	Consultancy Charges for Design and Development of an Automated System to pick and place gift toy from bowl to the conveyor	Samson Automation Technologies	1,62,840.00	

<b>Name of the Consultant(s) department</b>	<b>Name of Consultancy project</b>	<b>Consulting / Sponsoring Agency</b>	<b>Revenue generated (amount in Rs.)</b>
HoD Civil	Consultancy Charges for soil testing	South Western Railway	11,800.00
Dr M S Nagakumar	Consultancy Charges for soil testing	South Western Railway	17,700.00
R V College of Engineering	CoE in Internet of Things	Cisco Systems Pt Ltd	1,03,30,500.00
R V College of Engineering	CoE in Internet of Things	Cisco Systems Pt Ltd	11,75,779.00
HoD CSE	Consultancy Charges on Survey work on Information rights Management Technology	Ziroh Labs Pvt Ltd	11,800.00
HoD CSE	Consultancy Charges related to windows CE 6.0 application development with multitasking for coagulation analyzer	Micro Lab Instruments	1,50,000.00
Dr M S Naga kumar CVE	Consultancy Charges undertaken to conduct soil testing for school building at Laxmeshwar District Gadag	United Foundation Pvt Ltd	17,523.00
Prof Sunil S CVE	Consultancy Charges Marshal Test	Bureau Veritas (India) Pvt Ltd	9,440.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	Somashekara AC	1,770.00
Dr Neeta Shivakumar	Consultancy Charges for Micropropagation of commercially important plants	Dscign Biosys Pvt Ltd	60,000.00
HoD IEM	Conduction of Training program for NTTF PGDOM Students for 18 numbers of students (@Rs 2000+GST each)	Nettur Technical Training Foundation	42,480.00
HoD CV	Proof Checking vetting of the structural design and drawing	K Bhupal Engineering and Contractors Pvt Ltd	3,18,600.00
Principal	Consultancy Charges for conduction of trial pits for the proposed rehabilitation and upgradation of urban roads Tumkuru	IPE Global Ltd	1,90,570.00
Principal	Charges for the training on machine learning for 40 students @Rs10,000+GST per Student	Bharat Electronics Ltd	4,72,000.00
Principal	Consultancy charges for the project	ABB Global Industries and Service Pvt Ltd	88,500.00
Prof B G Anand Kumar, CVE	Consultancy charges for testing of concrete cubes	M R Construction	3,981.00
Principal	Sale of E waste CPUs	E Parisara Pvt Ltd	36,067.50
HoD CSE	Research Project on Implementing Natural Language Processing to generate Structure Query Language	System Consultant Information India Pvt Ltd	1,77,000.00

Name of the Consultant(s) department	Name of Consultancy project	Consulting / Sponsoring Agency	Revenue generated (amount in Rs.)
Principal	Coduction of DATA Structure and algorithm exam by codechef	Directi Internet Solutions Pvt Ltd	55,696.00
Principal	Coduction of DATA Structure and algorithm exam by codechef	Directi Internet Solutions	27,494.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	SP Builders & Developers	1,416.00
Prof Shashank B S	Cobsultancy charges for testing of cubes	PSP Project Ltd	3,717.00
Prof B G Anand Kumar	Consultancy charges for towards design and detailing of RCC steel structure for erection of 2500A and 4000A bus duct	G Sons Power	38,940.00
Prof Varuna M	Cobsultancy charges for material testing	Nesa Consultancy & Engineering Service	35,105.00
Dr Shanmukha Nagaraj	Research Project on Analysis of multiple CDN using available resources	Cisco Systems Pt Ltd	37,000.00
Dr Shanmukha Nagaraj	Te Connectivity India Pvt Ltd	Charges for the CSR Project on Design Development of 6 degrees of freedom collaborative Robot	5,00,000.00
HoD Cv	SP Builders & Developers	Consultancy Charges towards concrete cube testing	1,416.00
Dr Rajkumar	Topaz Tools	Cobsultancy charges titled Design and Development of Torque for removing lug nut	2,03,550.00
HoD EC	Micro Lab Instruments	Cobsultancy charges towards the project Android App for Bilurubin Testing Instrument	1,50,000.00
Prof Vageesh HP	M R Construction	Consultancy Charges towards concrete cube testing	1,416.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	M R Construction	1,416.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	M R Construction	1,416.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	Grihamithra Constructions	2,400.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	Hemalatha Constructions	1,416.00
Principal	Consultancy Charges towards Development of hospital Management system	Arivu Health Care	1,18,000.00



Name of the Consultant(s) department	Name of Consultancy project	Consulting / Sponsoring Agency	Revenue generated (amount in Rs.)
Principal	Sale of E waste / Scrap	R Z Steel Traders	35,297.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	S G Developers	1,416.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	Grihamithra Constructions	2,832.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	Hemalatha Constructions	1,412.00
Prof Vageesh HP	Consultancy Charges towards concrete cube testing	M R Constructions	1,416.00
Principal	Charges for the conduction of Comed-K exam on 13.05.218	San Prints Pvt Ltd	62,315.80
Principal	Charges for the conduction of Comed-K exam on 13.05.218	San Prints Pvt Ltd	62,315.80
Principal	Conduction of Training program for NTTF PGDOM Students for 15 numbers of students(@Rs 400+GST each)	Nettur Technical Training Foundation	56,640.00
Principal	Consultancy charges on the project titled Fabrication of shear off pin cap assembly	Topaz Tools	1,00,000.00
HoD CV	Consultancy charges towards Bump Integrator Calibration	Highway & Hydro Technologies Pvt Ltd	57,350.00
HoD CV	Consultancy charges towards vetting of structural design and drawings for the project Foot over bridge for Bengaluru by BBMP	Signpost India Pvt Ltd	59,000.00
HoD CV	Consultancy Charges for conduction of BBD Studies and conduction of necessary laboratory test of urban roads Tumakuru, Karnataka.	IPE Global Ltd	1,23,900.00
Principal	Charges for the concrete mix design pertaining to the project "Multi village water supply scheme to Kodihalli and other 298 villages in Kanakapura taluk, Ramanagara Dis	Megha Engineering and Infrastructures Ltd	59,236.00
Dr Shanmukha Nagaraj	Charges for the CSR Project on Design and Development of 6 degrees of freedom collaborative Robot (2 <sup>nd</sup> instalment)	Te Connectivity India Pvt Ltd	5,00,000.00
HoD ME	Charges for the Orientation programme on Electronics for Non Electronics Engineers and Mechanical Engineers .	Bharat Electronics Ltd	1,13,984.00
HoD CV	Vetting of Structural Design & Drawings for additional structures for Banavara & Gandasi Blocks of Arsikere Project	Megha Engineering and Infrastructures Ltd	35,400.00

Name of the Consultant(s) department	Name of Consultancy project	Consulting / Sponsoring Agency	Revenue generated (amount in Rs.)
Dr T Raghavendra CV	Vetting of Structural Design & Drawings for additional structures for Kolar Project	Megha Engineering and Infrastructures Ltd	11,800.00
HoD CV	Vetting of Structural concrete mix design pertaining to the project Multi Village water supply scheme to Kodihalli and othr 298 villages in Kanakapura taluku Ramanagara District	Megha Engineering and Infrastructures Ltd	59,236.00
Principal	Research Project on Smart App Meter foe energy and water management	IBM India Pvt Ltd	8,45,000.00
Prof Vageesh HP CV	Consultancy Charges towards concrete cube testing	Rajashekar A	950.00
Prof Vageesh HP CV	Consultancy Charges towards concrete cube testing	M R Construction	1,416.00
Prof Vageesh HP CV	Consultancy Charges towards concrete cube testing	Grihamithra Constructions	2,832.00
Principal	Research Project Completion of project exploring Citrix Netscaler supported protocols scapy tool” as per Milestones mentioned in MoU dated 09/01/2018	Citrix R &D India Pvt.Ltd	2,36,000.00
Prof Shashank B S CV	Consultancy Charges testing cubes	PSP Project Ltd	1,416.00
Prof Shashank B S CV	Consultancy Charges for material testing	RASTA Center for Road Technology	11,800.00
HoD CV	Consultancy Charges for testing of hollow concrete blocks and prisms	Mindwork Consulting	4,779.00
HoD CV	Conduction of Soil testing and detailed technical report	Karnataka State Co Operative Federation Ltd	31,860.00
Prof Anand Kumar B G	Consultancy Charges Soil investigation by hand auger and rotary drilling method @ KSRTC bus Depot and bus stand Tumkur	IPE Global Ltd	7,09,003.00
Dr Shanmukha Nagaraj	Registration fee for Training Programme on Industrial Hydraulics	L & T Technology Services Ltd	29,500.00
Principal	Research Project on Analysis of multiple CDN using available resources	Cisco Systems Pt Ltd	37,000.00
Principal	Research Project on Analysis of multiple CDN using available resources – 3 <sup>rd</sup> instalment	Cisco Systems Pt Ltd	43,660.00
Principal	Conduction of training 105 program for NTTF PDGQM Students for 15	Edutech NTTF India (P) Ltd	56,640.00

Name of the Consultant(s) department	Name of Consultancy project	Consulting / Sponsoring Agency	Revenue generated (amount in Rs.)
HoD CV	Vetting of Structural Design & Drawings for the project Multi Village water supply scheme to Adichunchanagiri and other 128 village in nagamangal taluku Mandya	Megha Engineering and Infrastructures Ltd	5,31,000.00
Prof Sunil S CV	Consultancy Charges/Testing charges	Bureau Veritas (India) Pvt Ltd	11,800.00
Principal	Consultancy Charges for Data Structure and Algorithm exam conducted by codechef date 26.08.2018	Directi Internet Solution Pvt Ltd	13,452.00
Principal	Consultancy Charges for Data Structure and Algorithm exam conducted by codechef date 18.10.2018	Directi Internet Solution Pvt Ltd	15,340.00
Principal	Institutional Over Head Charges for facilitating Gre Classes to students	Manya Education Pvt Ltd	69,979.00
HoD CV	Vetting of Structural Design & Drawings for Chikkaballapur Project	Megha Engineering and Infrastructures Ltd	4,13,000.00
HoD CV	Institution Consultancy Project	Tahal Consulting Engineers Ltd	29,500.00
HoD CV	Institution Consultancy Project	Rajashekar A	1,416.00
HoD CV	Institution Consultancy Project	M R Construction	2,832.00
HoD CV	Institution Consultancy Project	Sri Lakshmi Venkateshwara Engineering Works	8,260.00
HoD CV	Aravind N	Institution Consultancy Project	5,900.00
Hod CSE	Indian Institute of Technology Madras	Institution Consultancy Project	59,000.00
HoD CV	A B Enterprises	Institution Consultancy Project	5,900.00
HoD CV	Sri Lakshmi Venkateshwara Engineering Works	Institution Consultancy Project	1,416.00
HoD CV	Nikitha Build Infra Global LLP	Institution Consultancy Project	5,664.00
Principal	Principal SIT	Institution Consultancy Project	3,540.00
HoD CV	Institution Consultancy Project	Bureau Veritas (India) Pvt Ltd	65,490.00
Prof Shashank B S	Institution Consultancy Project	PSP Project Ltd	1,416.00
HoD CV	Institution Consultancy Project	A B Enterprises	8,679.00
Prof M S Nagakumar	Institution Consultancy Project	A C Srinivasa Raju	94,400.00
Principal	Institution Consultancy Project	System Consultant Information India P Ltd	1,23,000.00
HoD CV	Institution Consultancy Project Testing of Beam Column Joints	Liju T Abraham	12,390.00

Name of the Consultant(s) department	Name of Consultancy project	Consulting / Sponsoring Agency	Revenue generated (amount in Rs.)
Prof Vageesh HP	Institution Consultancy Projects Concrete Cube Testing charges	M R Constructions	1,416.00
Prof Shashank B S	Institution Consultancy Projects Geopolymer Brick Making by Dayanadsagar college students	Dayanand Sagar College Students	8,850.00
Principal	Sale of Scrap recd from SB Enterprises scrap sales	SB Traders	78,099.00
Dr N K Srinath	RV Cisco registration fee Orientation program for 250 students conducted at Sahyadri College of Engineering and Management	10 seconds	94,400.00
Principal	Institution Consultancy Project	Chief Engineer	2,57,400.00
<b>Total</b>			<b>2,02,35,890.10</b>

### 3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in Rs.)	No. of trainees
Computer Science and Engineering	Industry training on Machine learning	Sahaj soft ware solutions	90,000.00	40
Dr. K S Geetha Dr. Usha Rani ECE	IOT with Python Programming	TE Connectivity	70,800.00	6
NISE in Association with MNRE and EEE	Suryamitra Skill Development Program	NISE, MNRE	15,24,000.00	54
FAER- TBR Program, EEE	Foundation for Advancement of Education and Research	ZEBRA and FAER	2,25,000.00	30
HOD IEM	Five days training program on Metrology and Measurement, Quality Control and Non Destructive labs for NTTF Postgraduate Diploma in Quality Engineering & Management (PGDQM) students during	NTTF	1,32,500.00	33
Anjaneyappa Archana M R Durgaprashanth L Anandkumar B G Varuna M Sunil S Gajalakshmi K Shashank B S	3days Training program on 'Modern Survey Techniques' for PWD Engineers , 17-19, Sep.2018	PWD, GoK	2,57,000.00	30
Anjaneyappa Nagakumar M S Archana M R Durgaprashanth L Anandkumar B G	3days Training program on "Asset Management for Highways" for PWD Engineers , 26-28, Sep.2018	PWD, GoK	2,57,000.00	30

Varuna M				
Sunil S				
Shashank B S				
Total			25,56,300.00	223
3.6 Extension Activities				
3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year				
Title of the Activities	Organising unit/ agency / collaborating agency	Number of teachers co-ordinated in such activities	Number of students participated in such activities	
World Environmental Day Celebration at Melukote, Mandya Dist.	ASCE student chapter	4	138	
Utsarga Marathon - NSS RVCE flagship event	Sri Bhagylakshmi enterprises and Wier group	2	250	
Surgical Strike Day celebration	-	2	160	
National Youth day celebration		4	150	
Swacch bharath cleanliness awareness drive	ASCE Student chapter	2	100	
All India Thal Sainik Camp-2019	NCC	1	5	
3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year				
Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited	
All India Thal Sainik Camp-2019	Silver medal in judging distace and field signals	Karnataka and Goa Directorate	1	
Republic day parade 2019 and Youth exchange Program 2019 Russia	DDG commendation	Karnataka and Goa Directorate	1	
NCC best performing institute	Overall Best NCC institution	Karnataka and Goa Directorate	80	
Inter Group Competition 2019	Best SW cadet	Bangalore Group A	1	
3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency / collaborating agency	Name of the activity	No. of teachers co-ordinated such activities	No. of students participated in such activities
Social Service	1 Kar signal NCC, RV College of Engineering	Swachh Bharat	1	80
Social Service	1 Kar signal NCC, RV College of Engineering	Lake cleaning	1	60
Social Service	1 Kar signal NCC, RV College of Engineering	Blood Donation	150	1500

Social Service	RV College of Engineering	Social awareness in villages	25	700
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**3.7 Collaborations****3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year**

Nature of Activity	Participant	Source of financial support	Duration
<b>Computer Science and Engineering</b>			
Technical area of this cooperation will be in the domain of cyber physical systems	Dr.Sowmyarani C N	Indian Institute of Science	3 years
Industry collaboration for elective (RPA) by Uipath company.	Dr. Ramakanth Kumar P	--	2 years
research and education	Dr.Rajashree Shettar, Dr.Anala M R, Dr Soumya A, Dr.Shanta Rangaswamy, Dr.Pratiba D	Samsung R and D	3 years
research and education	Dr.Anala M R, Prof Revathi S A, Prof.Srividya M S	HPE Pvt. Ltd	2 Years
Consultancy	Dr.Shobha G, Dr.Minal Moharir, Dr.Anala M R	Citrix R and D	1 Year
Research and education	Dr.Shobha G, Prof.Praphulla, Prof.Mamatha T, Prof.Girish Rao Salanke	IBM	2 Years
Research	Prof. Kavitha S N	Samsung	1 Year
Research	Dr. B M Sagar, Dr. G S Mamatha, Prof. Priya D	IITB (MINRO)	
Research	Prof. Merin Meleet, Prof. Swetha S, Prof. Smitha G R	Wipro & IISc (WIRIN)	2 Years
Research	Dr. Chethana R Murthy, Dr. Rajashekara Murthy, Dr. Mamatha G S, Dr. G N Srinivasan, Prof. Anisha B S	Central Silk Board (National Silkworm Seed Organization)	1 Year

**3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year**

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
<b>CSE</b>				
Internship	Internship	Manhattan Associates	Jan. - June 2019	Anish Dutta
Internship	Internship	ISRO	Jan. - June 2019	Rohan Eshwar -
Internship	Internship	Goldman Sachs	Jan. - June 2019	Sindhu B Dinesh
Internship	Internship	SAP LAB	Jan. - June 2019	Adithya Ajith
Internship	Internship	SAP LAB	Jan. - June 2019	Ram Srinivas
Internship	Internship	Bidgely Technologies	Jan. - June 2019	Nisarg A K

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Internship	Internship	Cisco Systems	Jan. - June 2019	Pragathi N
Internship	Internship	Cisco Systems	Jan. - June 2019	Mridul Kaushik
Internship	Internship	Cisco Systems	Jan. - June 2019	Niteesh Bhat
Internship	Internship	Mahindra comviva	Jan. - June 2019	Swetha Savalgi
Internship	Internship	Zynga Game Network	Jan. - June 2019	Shivam bhat
Internship	Internship	Zynga Game Network	Jan. - June 2019	Nithin H K
Internship	Internship	Cisco Systems	Jan. - June 2019	Narayan Ganesh Hasyagar
Internship	Internship	Cisco Systems	Jan. - June 2019	K.S.Amogh Vardhan
Internship	Internship	Boeing India	Jan. - June 2019	Ranjana T S
Internship	Internship	Aruba HPE	Jan. - June 2019	Pavan R Sankh
Internship	Internship	Mahindra Comviva	Jan. - June 2019	Zakir Hussain N
Internship	Internship	Oracle India Pvt Ltd	Jan. - June 2019	Aravind Kumar B
Internship	Internship	Walmart Labs	Jan. - June 2019	Anirudh K M
Internship	Internship	Walmart labs	Jan. - June 2019	Nutheti Pavan Sai Diwakar
Internship	Internship	Citrix R and D	Jan. - June 2019	Shubham choudhary
Internship	Internship	Goldman Sachs	Jan. - June 2019	Vinay N R
Internship	Internship	Citrix R and D	Jan. - June 2019	Manjunath P Jakaraddi
Internship	Internship	Citrix R and D	Jan. - June 2019	B Ravi Shankar Reddy
Internship	Internship	Couchbase India Private Ltd.	Jan. - June 2019	Suraj Ratnakar Naik
Internship	Internship	Zapr	Jan. - June 2019	Kashish Sharma
Internship	Internship	Mahindra comviva	Jan. - June 2019	Naveena B N
Internship	Internship	Citrix	Jan. - June 2019	Malika Makker
Internship	Internship	Baxter	Jan. - June 2019	Pranav Khanna
Internship	Internship	Aruba HPE	Jan. - June 2019	Pavan R Sankh
Internship	Internship	Indian Institute of Science	Jan. - June 2019	Sushanto Praharaj
Internship	Internship	Instamojo	Jan. - June 2019	Chaithanya H R
Internship	Internship	Instamojo	Jan. - June 2019	T. Venumadhav
Internship	Internship	Qualcomm	Jan. - June 2019	Apeksha K P
Internship	Internship	Cisco	Jan. - June 2019	Rohan Simha
Internship	Internship	Amazon	Jan. - June 2019	Raagini JM
Internship	Internship	Qualcomm	Jan. - June 2019	Shreyas K K
Internship	Internship	Walmart Labs	Jan. - June 2019	Jayanth S
Internship	Internship	Nextspm	Jan. - June 2019	Prabuddha SL
Internship	Internship	IBM	Jan. - June 2019	Mandara R Bharadwaj
Internship	Internship	Schneider Electric Bangalore	Jan. - June 2019	Sumanth Dirisam
Internship	Internship	Tektronix	Jan. - June 2019	Sourav S
Internship	Internship	Tektronix (Fluke)	Jan. - June 2019	Sharmila Shree B A
Internship	Internship	OneDirect	Jan. - June 2019	Subramani Raju V
Internship	Internship	HPE Aruba Networks	Jan. - June 2019	Abhishek H P
Internship	Internship	Citrix	Jan. - June 2019	Ganeshprasad Biradar



Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Internship	Internship	Citrix	Jan. - June 2019	Yashwanth B K
Internship	Internship	Intel	Jan. - June 2019	Ninad Jain
Internship	Internship	LogMeIn	Jan. - June 2019	Sachin H R
Internship	Internship	Cisco	Jan. - June 2019	Aravind Sudarshan
Internship	Internship	IBM	Jan. - June 2019	Vanshika Kuchhal
Internship	Internship	Philips Healthcare	Jan. - June 2019	Akil Prasad
Internship	Internship	Nutanix	Jan. - June 2019	Siddharth Mitta
Internship	Internship	Viacom18	Jan. - June 2019	Tarun Krishna
Internship	Internship	Viacom18	Jan. - June 2019	Hanumanthraya
Internship	Internship	Lending Kart	Jan. - June 2019	Suma Latha
Internship	Internship	Intel	Jan. - June 2019	Sharath Kumar b
Internship	Internship	Soroco	Jan. - June 2019	Channabasawa Nagur
Internship	Internship	Soroco	Jan. - June 2019	R Ram Rohan
Internship	Internship	Schneider Electric Bangalore	Jan. - June 2019	Sumanth Dirisam
<b>Chemical Engineering</b>				
Internship		Mangalore Chemical & Fertilizers Limited, N Suresh Krishnan Managing Director Contact No: +91-080-3985 5599 E-mail: <a href="mailto:vyk@mangalorechemicals.com">vyk@mangalorechemicals.com</a>	01/08/2018 to 30/08/2018	Student
Internship		Micro Labs Limited Dilip Surana Chief Managing Director Contact No : 080-22269458. Email id: <a href="mailto:dilipsurana@microlabs.in">dilipsurana@microlabs.in</a> . Plot No 43-45, KIADB, Jigani Bomasandra Link Road, Anekal Taluk, Bengaluru-560 105	06/07/2018 to 04/08/2018	Student
Internship		The Himalaya Drug Company Raghavendra V Kulkarni Manager Contact No: +918023714477 E-mail: <a href="mailto:human.resources@himalaya.wellness.com">human.resources@himalaya.wellness.com</a> Tumkur Road, Makali, Bangalore – 562162.	25/06/2018 to 31/08/2018	Student
Internship		Kirloskar Ferrous Industries Ltd. R. V. Gumaste Managing Director Contact No: 08539 286761 Email ID: <a href="mailto:gumaste.rv@kfil.com">gumaste.rv@kfil.com</a> Bevinahalli Village and post, Koppal Taluk and District Pin: 583 234	01/08/2018 to 30/08/2018	Student



Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Internship		Dakshina Kannada Co-operative milk Union Limited G V Hegde, MD Contact No: 94498 66485 / 0824 – 2231515 E – mail: <a href="mailto:mddkml@gmail.com">mddkml@gmail.com</a> Dakshina Kannada Co – Operative Milk Producers Union Ltd.,Kulashekar Mangalore -575 005.	02/07/2018 to 20/08/2018	Student
Internship		Mangalore Chemical & Fertilizers Limited N Suresh Krishnan Managing Director Contact No: +91-080-3985 5599 E-mail: <a href="mailto:vyk@mangalorechemicals.com">vyk@mangalorechemicals.com</a> Mangalore Chemicals and Fertilizers Limited Panambur, Mangaluru-575010	13/07/2018 to 24/09/2018	Student
Internship		Sigma Aldrich Chemicals Pvt Limited Sunil Punjabi Managing Director Contact No:: 08066219400 <a href="mailto:sunil.punjabi@sial.com">sunil.punjabi@sial.com</a> 7 <sup>th</sup> Floor, Tower 02, Electronics city phase 1, survey no 94/2 veerasandra village, Bengaluru-560 100	10/06/2019 to 27/06/2019	Student
Internship		Mangalore Refinery and Petrochemicals Limited M Venkatesh Managing Director Contact No: +91-0824-2882107 Email: <a href="mailto:Venky_m@mrpl.co.in">Venky_m@mrpl.co.in</a> Mangalore Refinery and Petrochemicals Kuthethoor P.O., Via Katipalla, Mangalore- 575 030	03/06/2019 to 04/07/2019	Student
Internship		Jubilant Chemsys Limited Hari S Bhartia Chairman and Managing Director Contact No: +(91)-(120)-4361404 E-Mail : <a href="mailto:chairman@jubl.com">chairman@jubl.com</a> Jubilant Chemsys Limited B-34, Sector-58, Noida-201301, UP, India.	03/06/2019 to 03/07/2019	Student
Internship		The Fertilizers and Chemicals	08/07/2019	Student

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
		Travancore Limited Kishor Rungta Chairman and Managing Director Contact No: +91 484 2545418 E-Mail : <a href="mailto:rkishor@factltd.com">rkishor@factltd.com</a> The Fertilizers and Chemicals Travancore Limited Eloor Udyogamandal Kochi, Kerala, 683 501 India	to 21/07/2019	
Internship		Mangalore Refinery and Petrochemicals Limited M Venkatesh Managing Director Contact No: +91-0824-2882107 Email: <a href="mailto:Venky_m@mrpl.co.in">Venky_m@mrpl.co.in</a> Mangalore Refinery and Petrochemicals Kuthethoor P.O., Via Katipalla, Mangalore- 575 030	10/06/2019 to 27/06/2019	Student
<b>Electronics and Communication Engineering</b>				
Internship	Project	GK Machineries & Robotics Private Limited	July to August 2018	Chetan M Neetin Kumar RekhaKolliyavar Abhishek
Internship	Project	Qtronics	July to August 2019	Meghashree Doddamani Sorapallisharanesh Aishwarya H S UmeshSachin V
<b>Information Science and Engineering</b>				
Internship	UG Internship	UGAM SOLUTIONS	Jan - July 2019	Aashish jaisimha
Internship	UG Internship	GOLDMAN SACHS	Jan - July 2019	Abhiram prasad
Internship	UG Internship	GOODERA	Jan - July 2019	Aditya gupta
Internship	UG Internship	WIDAS	Jan - July 2019	Adwait gautam
Internship	UG Internship	TEKTRONIX	Jan - July 2019	Akshay gupta
Internship	UG Internship	GOLDMAN SACHS	Jan - July 2019	Amith kumar v
Internship	UG Internship	SOROCCO	Jan - July 2019	Anoosha m rao
Internship	UG Internship	JP MORGAN	Jan - July 2019	Anushree s s
Internship	UG Internship	NUTANIX	Jan - July 2019	Anushtuthi p

<b>Nature of linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/ industry /research lab with contact details</b>	<b>Duration (From-To)</b>	<b>Participant</b>
Internship	UG Internship	PAYTM	Jan - July 2019	Atman wagle
Internship	UG Internship	Viacom18	Jan - July 2019	Chethan d
Internship	UG Internship	ECI TELECOM	Jan - July 2019	Chethankumar m
Internship	UG Internship	CISCO	Jan - July 2019	Chiranthan s
Internship	UG Internship	SCHNEIDER	Jan - July 2019	Dhanush raj
Internship	UG Internship	MCAFEE	Jan - July 2019	Divya m r
Internship	UG Internship	ATLASSIAN	Jan - July 2019	Harish a
Internship	UG Internship	VMWare	Jan - July 2019	Hemanth shetty m
Internship	UG Internship	MIQ	Jan - July 2019	Hindupur rohitraj
Internship	UG Internship	JP MORGAN	Jan - July 2019	Ishan jha
Internship	UG Internship	Honeywell	Jan - July 2019	K r navaneeth
Internship	UG Internship	PROPTIGER	Jan - July 2019	Karanjeet s anand
Internship	UG Internship	INFOWORKS	Jan - July 2019	Krishna sridhar
Internship	UG Internship	EPSILON	Jan - July 2019	Kuche bhavani priya
Internship	UG Internship	HP ARUBA	Jan - July 2019	Nikhil p
Internship	UG Internship	42 GEARS	Jan - July 2019	Nilesh prasad
Internship	UG Internship	SAP LABS	Jan - July 2019	Nithish d s
Internship	UG Internship	GIGSKY	Jan - July 2019	Prabhu jaiswal
Internship	UG Internship	CITRIX	Jan - July 2019	Pranay garg
Internship	UG Internship	SAP LABS	Jan - July 2019	Raghavendra p nakod
Internship	UG Internship	Honeywell	Jan - July 2019	Raghavendra sagar
Internship	UG Internship	ZAPR MEDIA LABS	Jan - July 2019	Rakshith r
Internship	UG Internship	MIQ	Jan - July 2019	Rati ranjan
Internship	UG Internship	CISCO	Jan - July 2019	Rohith ravindra naik
Internship	UG Internship	NATIONAL INSTRUMENTS	Jan - July 2019	Shubham kumar jha

<b>Nature of linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/ industry /research lab with contact details</b>	<b>Duration (From-To)</b>	<b>Participant</b>
Internship	UG Internship	CISCO	Jan - July 2019	Sneha janani shekar
Internship	UG Internship	IBM	Jan - July 2019	Sujayeendra boodur
Internship	UG Internship	SANDISK	Jan - July 2019	Suraj a r
Internship	UG Internship	PROPTIGER	Jan - July 2019	Swapnil kumar
Internship	UG Internship	INTUIT	Jan - July 2019	Vinayak s
Internship	UG Internship	ZAPR MEDIA LABS	Jan - July 2019	Kaustubh agarwal
Internship	UG Internship	MCAFEE	Jan - July 2019	Vishwaraj jaiswal
Internship	UG Internship	LOGMEIN	Jan - July 2019	Samika rastogi
Internship	UG Internship	Viacom18	Jan - July 2019	Gopalkrishna r
Internship	UG Internship	LendingKart	Jan - July 2019	Karthik kashyap
Internship	PG Internship	NOKIA	July 2018 - July 2019	Aishwarya s pattar
Internship	PG Internship	RELIANCE	July 2018 - July 2019	Anusha v g
Internship	PG Internship	PHILIPS	July 2018 - July 2019	Champa m s
Internship	PG Internship	PHILIPS	July 2018 - July 2019	Gurudat k s
Internship	PG Internship	INFINERA	July 2018 - July 2019	Nitin shettar
Internship	PG Internship	QUALCOMM	July 2018 - July 2019	Rajeshwari patil
Internship	PG Internship	NOKIA	July 2018 - July 2019	Shravya g
Internship	PG Internship	NOKIA	July 2018 - July 2019	Sindhu rashmi.h. R
Internship	PG Internship	PHILIPS	July 2018 - July 2019	Uday d v
Internship	PG Internship	Nokia	July 2018 - July 2020	Arpitha CG
Internship	PG Internship	Nokia	July 2018 - July 2021	Harshitha M
Internship	PG Internship	Philips	July 2018 - July 2022	Harshitha U Kumar
Internship	PG Internship	Carl Zeiss	July 2018 - July 2023	Kavya BR
Internship	PG Internship	Philips	July 2018 - July 2024	Nagma Tahasildar
Internship	PG Internship	Carl Zeiss	July 2018 - July 2025	Navyashree S

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Internship	PG Internship	Oracle RGPU	July 2018 - July 2026	Nidhi H Kulkarni
Internship	PG Internship	Wipro	July 2018 - July 2027	Rashmi M
Internship	PG Internship	Cisco	July 2018 - July 2028	Sudha S Chikkaraddi
Internship	PG Internship	Syncron	July 2018 - July 2029	Sundresh H D
Internship	PG Internship	Cisco	July 2018 - July 2030	Sweekruth S Badiger
Internship	PG Internship	Nokia	July 2018 - July 2031	Vaishnavi G R
<b>Industrial Engineering and Management</b>				
Internship	Project	Ather Energy, Bengaluru	Jan-May 2019	Harith Talikota
Internship	Project	Cisco Systems India Pvt Ltd.	Jan-May 2019	Malavika Menon
Internship	Project	Cisco Systems India Pvt Ltd.	Jan-May 2019	Shwetha Kini
Internship	Project	Mercedes Benz R&D, Bengaluru	Jan-May 2019	Saloni Agarwal
Internship	Project	Mercedes Benz R&D, Bengaluru	Jan-May 2019	Komal Chhajer
Internship	Project	Kuliza Technologies Pvt Ltd, Bengaluru	Jan-May 2019	Sumedh Atul Bang
Internship	Project	MiQ Digital India Pvt Ltd., Bengaluru	Jan-May 2019	Mayank Sagar
Internship	Project	KPMG	Jan-May 2019	Deshpande Srivatsa
<b>Telecommunication Engineering</b>				
Internship	Project	IntelliPredict Technologies	19th August 2019 – 19th May 2020	Bhagyashree AJ
Internship	Project	Prudent Communication Systems Pvt Ltd	4th Sept.2019 - 4th Dec.2019	Aishwarya R
Internship	Project	ESSL Security	2nd Sept.2019 - 2nd Dec.2019	Ashwini
Internship	Project	INTEL	4th Nov.2019- 4th July 2020	Astha Sharma
Internship	Project	DSPG	1st July- 1st July 2020	Bhavana Ganga R
Internship	Project	NXP Semiconductors	10th July 2019 - 10 <sup>th</sup> July2020	Bindu G Reddy
Internship	Project	Veoneer	1st July 2019- 1st July 2020	Chandrakala J
Internship	Project	ISRO	25th Sept.2019- 25th Sept.2020	Diwakar M
Internship	Project	PHILIPS	6th August 2019- 6th August 2020	Hudha Nargis
Internship	Project	ESSL Security	2nd Sept.2019- 2nd Dec.2019	Jyoti g

<b>Nature of linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/ industry /research lab with contact details</b>	<b>Duration (From-To)</b>	<b>Participant</b>
Internship	Project	Prudent Communication Systems Pvt Ltd	4th Sept.2019 - 4th Dec. 2019	Lakshmi Patil
Internship	Project	Prudent Communication Systems Pvt Ltd	4th September 2019 -4th December 2019	Mahesh Karajol
Internship	Project	PHILIPS	6th August 2019- 6th August 2020	Math Sidda Lingayya
Internship	Project	HS Brands Global	31st July 2019- 31st July 2020	Meghana S
Internship	Project	NXP Semiconductors	10th July 2019- 10th July 2020	Mohammad Azharuddin Inamdar
Internship	Project	NOKIA	1st July 2019- 1st July 2020	Nagalakshmi Pranitha S
Internship	Project	NOKIA	17th July 2019- 17th July 2020	Nagavaishnavi K
Internship	Project	BHEL	19th Aug. 2019- 10th Sept.2019	Niveditha V K
Internship	Project	NOKIA	26th August 2019- 26th May 2020	Pateel Shireesha
Internship	Project	ROBERT BOSCH	8th July 2019- 8th July 2020	Pooja Dayanandha K
Internship	Project	NOKIA	8th July 2019- 8th July 2020	Raksha k
Internship	Project	ROBERT BOSCH	4th Sept.2019 - 4th Dec.2019	Ramya Keerthi M R
Internship	Project	DRDO	17th Sept. -17th Nov. 2020	Rashmi Sadalagi
Internship	Project	AMETEK Instruments India Pvt Ltd	26th August 2019- 26th August 2020	Ruben J Franklin
Internship	Project	Centum Electronics	15th July- 15th September 2019	Sharada NS
Internship	Project	Prudent Communication Systems Pvt Ltd	4th Sept. 2019 - 4th December 2019	Sharath S
Internship	Project	PHILIPS	6th August 2019- 6th August 2020	Shreevalli S
Internship	Project	Microchip Technology. Inc	15th July 2019- 15th July 2020	Shrivibhu
Internship	Project	NOKIA	17th July 2019- 17th July 2020	Sudhan AT
Internship	Project	NOKIA	17th July 2019- 17th July 2020	Tejaswini G Babajiyavar
Internship	Project	Prudent Communication Systems Pvt Ltd	4th Sept. 2019 - 4th December 2019	Tejaswini GP

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Internship	Project	NOKIA	15th July 2019-15th July 2020	Usha N
Internship	Project	Microchip Technology. Inc	15th July 2019-15th July 2020	Usha V

**3.7.3 MoUs signed with Institutions of national, international importance, other institutions, industries, corporate houses etc. during the year**

Organisation	Date of MoU signed	Purpose and Activities	Number of students/ teachers participated under MoUs
GK Machineries & Robotics Private Limited	2018	Consultancy	Principal, IIC Coordinator, HOD, 6 students and 2 faculty
Innosolv Consultancy Services Pvt. Ltd.	2018	Consultancy	Principal, IIC Coordinator, HOD, 3 students and 1 faculty
Happy Mongo Online Solution Pvt. Ltd.	2018	Academic & Research Collaboration	Principal, IIC Coordinator, HOD, 6 students and 3 faculty
Citrix R & D India Pvt. Ltd.	2018	Projects	Principal, IIC Coordinator, HOD, 3 students and 2 faculty
Kennametal India Limited	2018	Consultancy	Principal, IIC Coordinator, HOD, 9 students and 2 faculty
University of Commons, Mind Tree	2018	Social Innovations	Principal, IIC Coordinator, HOD, 3 students and 2 faculty
Mercedes Benz India Ltd., Pune	2018	Course on Diploma in Automotive Mechatronics	Principal, IIC Coordinator, HOD, 10 students and 2 faculty
DSCIGN Biosys Pvt. Ltd.	2018	Manpower Development (Training), Consultancy, R&D, Guest Lectures, Seminars.	Principal, IIC Coordinator, HOD and 2 faculty
Toyota Kirloskar Motor Private Ltd.	2018	Cross section of Engines and components, establishment of Lab	Principal, IIC Coordinator, HOD, 7 students and 2 faculty
CSIR/NAL	2018	Student Project work	Principal, IIC Coordinator, HOD, 3 students and 2 faculty
Indian Institute of Hams (IIH)	2018	Set up a trans-receiver at RVCE & conduction of training	Principal, IIC Coordinator, HOD, 6 students and 1 faculty
Ideas Unlimited	2018	Joint academic and research collaborations	Principal, IIC Coordinator, HOD, 8 students and 2 faculty
Quantumzyme LLP- Bengaluru	2018	Academic and Research collaboration	Principal, IIC Coordinator, HOD, 7 students and 2 faculty
M/s. Keysight Technologies India Private Limited, New Delhi	2018	Academic and Research	Principal, IIC Coordinator, HOD, 3 students and 3 faculty
Lifysignals Technology Pvt. Ltd.	2018	Research and Training	Principal, IIC Coordinator, HOD, 2 students and 4 faculty
M/s. Samsung R&D Institute India-Bengaluru Pvt. Ltd.	2019	Academic and Research	Principal, IIC Coordinator, HOD, 3 students and 2 faculty

Organisation	Date of MoU signed	Purpose and Activities	Number of students/ teachers participated under MoUs
M/s. LAPP India Pvt. Ltd. Bengaluru.	2019	Training, Seminars and conducting experiments related to cables testing	Principal, IIIC Coordinator, HOD, 8 students and 2 faculty
HPE	2019	Industry-Academic research Collaboration	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
IBM India, Bengaluru	2019	Academic-Research collaboration	Principal, IIIC Coordinator, HOD, 9 students and 2 faculty
Citrix R & D	2019	R & D Project	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
Navigem Data Pvt. Ltd. Bengaluru	2019	Industry-Academic research Collaboration	Principal, IIIC Coordinator, HOD, 3 students and 3 faculty
Infineon	2019	Academic activities, establishment of laboratories, internship and project	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
Avyaya Agritech LLP, Davanagere	2019	Students Projects, R&D activities, Consultancy, Testing and Verification	Principal, IIIC Coordinator, HOD, 12 students and 1 faculty
Ampere Vehicles Pvt. Ltd, Coimbatore, TN	2019	Projects, Internship, R&D activities, Consultancy, Training Programs	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
Bioneeds India Pvt. Ltd. Bengaluru	2019	Collaborative research and development, education & training	Principal, IIIC Coordinator, HOD, 7 students and 2 faculty
Catbus Infolabs Pvt. Ltd. Bengaluru	2019	Student Projects & Research	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
Bangalore Bio-Innovation Centre (BBC) – Bengaluru	2019	Industry-Academic research Collaboration	Principal, IIIC Coordinator, HOD, 12 students and 1 faculty
Cytometry Solutions Pvt. Ltd. Kolkata	2019	Collaborative research & development, education & training	Principal, IIIC Coordinator, HOD, 15 students and 2 faculty
M/s. QTRONICS	2019	Training, Consultancy and R&D activities	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
Atrimed Pharmaceuticals Pvt. Ltd. Bengaluru	2019	Collaborative Research & Development	Principal, IIIC Coordinator, HOD, 10 students & 1 faculty
UI Path	2019	Electives, FDPs, Academics & Trainings	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
The National College, Jayanagar, Bengaluru	2018	Academic and Research Collaboration	Principal, IIIC Coordinator, HOD and 1 faculty
SLPP	2019	Training, Guest Lectures, scholarships	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty
The Karnataka Veterinary, Animal & Fisheries Science University (KVAFSU), Bidar	2019	Collaborative research & development, consultancy, education, training and projects	Principal, IIIC Coordinator, HOD, 8 students and 2 faculty
J.C. Bose University of Science & Technology, YMCA-Faridabad, Haryana	2019	Education and academic research	Principal, IIIC Coordinator, HOD, 3 students and 2 faculty



<b>Organisation</b>	<b>Date of MoU signed</b>	<b>Purpose and Activities</b>	<b>Number of students/ teachers participated under MoUs</b>
University of the West of Scotland	2019	Education and academic research	Principal, IIC Coordinator, HOD, 8 students and 2 faculty
Indian Institute of Science – Robert Centre for Cyber-Physical Systems, Bengaluru	2019	Student internship	Principal, IIC Coordinator, HOD, 3 students and 2 faculty
University of Applied Sciences & Arts- Dortmund, Germany	2019	Teaching, Research & Cultural Exchange	Principal, IIC Coordinator, HOD, 3 students and 2 faculty
Govt. College of Homeopathy, Bangalore	2019	Academic & Research Activities	Principal, IIC Coordinator, HOD, 9 students and 2 faculty

## Criterion IV – Infrastructure and Learning Resources

4.1 Physical Facilities-						
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year						
Budget allocated for infrastructure augmentation (in Lakhs)			Budget utilized for infrastructure development (in Lakhs)			
1459.00			1127.00			
4.1.2 Details of augmentation in infrastructure facilities during the year -						
Facilities			Existing		Newly added	
Campus area			50.97 acres			
Class rooms			147			
Laboratories			144			
Seminar Halls			14			
Classrooms with LCD facilities			130			
Classrooms with Wi-Fi / LAN			147			
Seminar halls with ICT facilities			14			
Video Centre			01			
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.						
Value of the equipment purchased during the year (Rs. in Lakhs)			2214.56		926.10	
Others						
4.2 Library as a Learning Resource-						
4.2.1 Library is automated {Integrated Library Management System (ILMS)}						
Name of the ILMS software		Nature of automation (fully or partially)		Version		Year of automation
LIBSOFT		FULLY		12.0 CLOUR		2017
4.2.1 Library Services:						
	Existing		Newly added		Total	
	No.	Value (Rs.)	No.	Value (Rs.)	No.	Value (Rs.)
Text Books	2867	1644325.00	920	556119.00	3878	2200444.00
Reference Books	225	1128870.00	157	304062.00	382	1432932.00
e-Books	7000	6566433.00	22000	701139.00	29000	1357572.00
Journals	233	707359.00	1681	770000.00	233	1477572.00
e-Journals	8611	2456600.00	01	2644000.00	1681	5100600.00
Digital Database		1861792.00	NPTEL		01	1861792.00
CD & Video	NPTEL		4TB			
Library automation	01	159300.00				
Weeding (Hard & Soft)	Nil	NIL	NIL	NIL	NIL	NIL
Others (specify)	TEQIP 1.2 (28 Books), COE 1.2.1 (60 Books) 88	125166.00  642620.00				767786.00

#### 4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/ NMEICT/ any other Government initiatives & institutional (Learning Management System (LMS) etc

First year course contents for UG program are hosted on Quiklrn and students are able to access the course material through their laptop/mobile

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
Dr. Neethi Ghiya	Engineering Mathematics	Quiklrn	1 <sup>st</sup> Aug 2018
Dr. Ramya P	Engineering Physics	Quiklrn	1 <sup>st</sup> Aug 2018
Ms. Sunanda C	Elements of Electrical Engineering	Quiklrn	1 <sup>st</sup> Aug 2018
Ms. Sindhu D	Elements of Civil Engineering	Quiklrn	1 <sup>st</sup> Aug 2018
Dr. Divakar	Engineering Chemistry	Quiklrn	1 <sup>st</sup> Aug 2018
Ms. Gnashree K.C	Programming in C	Quiklrn	1 <sup>st</sup> Aug 2018
Ms. Shwetha Baliga	Elements of Electronics Engineering	Quiklrn	1 <sup>st</sup> Aug 2018
Mr.Srinivas M.R	Elements of Mechanical Engineering	Quiklrn	1 <sup>st</sup> Aug 2018

#### 4.3 IT Infrastructure- IT INFRASTRCTURE TEAM

##### 4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	2633	73	350	01	01	01	16	350	03
Added	249	0	300	0	0	0	0	300	0
Total	2656 (226 provided to schools )	73	650	01	01	01	16	650	03

##### 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

600 MBPS +50 MBPS exclusively for CISCO IOT Centre( MBPS /GBPS)

##### 4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Digital Media Centre	<a href="http://112.133.207.133/manage/foldercontent.html?folder=videos">http://112.133.207.133/manage/foldercontent.html?folder=videos</a>
NPTEL Videos	<a href="http://172.16.44.44/nnptel.html">http://172.16.44.44/nnptel.html</a>
QEEE lecture Videos	<a href="http://172.16.30.122/umesh/elearning/elearning.php">http://172.16.30.122/umesh/elearning/elearning.php</a>
Quiklrn	<a href="http://quiklrn.com/students.php">http://quiklrn.com/students.php</a>

#### 4.4 Maintenance of Campus Infrastructure - DEPUTY DIRECTOR-OFFICE OF THE PRINCIPAL

##### 4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year (In Lakhs)

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1566.02	1316.40	325.00	334.56

#### **4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)**

At the RV College of Engineering, we have clear policies and procedures to create, maintain and upgrade the Infrastructure for enhancing the Teaching, Learning process regularly. We consider Human Resources as Pivotal and most important asset and follow proper systems to recruit and retain our staff members. We also provide impetus on expending the Budget in creating and maintaining state of the art facilities in terms of Buildings, Student space, Laboratory equipment's, Teaching aids, Learning resources etc to enhance the overall student experience.

We have recently launched online complaint management system link:<http://172.16.2.113>

##### **Teaching aids (use of Information and Computer Technology - ICT)**

1. Digital Interactive Boards (11 Nos.) have been installed in various departments
2. Smart Boards (18 nos.) have been installed in the Campus, one in each Department for improving the Teaching-Learning process.
3. 130 Classrooms with LCD Projectors.
4. 147 Classrooms with Wi-Fi/LAN enabled Internet connectivity in the Classrooms.

##### **Seminar halls & Auditorium:**

1. Overall 14 Seminar halls with state-of-the-art ICT facilities to conduct College-level Events, State, National & International Conferences, Workshops and Symposia.
2. One large Auditorium with best in class ICT facilities to conduct College-level Events, State, National & International Conferences, Workshops and Symposia.

##### **Laboratories (Labs)/Workshops:**

All the **154 Laboratories (Labs) / Workshops are well-equipped with latest state-of-the-art equipment's and materials** not only to cater towards imparting of Curriculum related aspects to students as well go a level above in acting as a catalyst to motivate students to engage in Research related activities too. The Labs and Workshops are maintained well with regular/periodical upkeep done by professionals.

We are in the process of establishing a Design Studio for encouraging students to generate ideas which can be converted into Start-ups.

##### **Computers & Information Technology (I.T) Infrastructure Maintenance:**

The College has the following Computers & Information Technology (I.T) Infrastructure, namely

- 73 Computer Labs,
- 2656 Computers,
- 1 Browsing Centre,
- Servers,
- Data Centre,
- Internet Bandwidth of 650 Mbps with Wi-Fi connectivity.

Information Technology (I.T) related issues in the campus are logged through an internal portal. Calls are assigned to the technicians and after completion, the status is updated. The activity is being managed internally. The URL is

[http://172.16.2.112/IT\\_Maintenance/Complain-Management-System/login.php](http://172.16.2.112/IT_Maintenance/Complain-Management-System/login.php)

An in-house I.T Maintenance team comprising of experienced Networking professionals handles the I.T Infrastructure – Computer Labs, Computers, Browsing Centre, Servers, Data Centre, Internet, Firewall, etc of College/Departments on a daily basis. At the Departmental level, Computer labs are

also maintained by the I.T Coordinators of the respective departments who handle any minor software or hardware issues.

**Computers & Peripherals, Network Infrastructure:**

Preventive / Routine maintenance is handled by the respective department technical staff.

Breakdown maintenance is handled by the IT maintenance cell.

**Servers:** Hardware Maintenance of Servers has been outsourced.

**Services:** All IT Services are managed internally with some minor external vendor/ OEM support.

**Software:** Apart from the perpetual licenses the other software are regularly renewed with the respective vendors.

## Criterion V - Student Support and Progression

<b>5.1 Student Support</b>			
<b>5.1.1 Scholarships and Financial Support</b>			
	<b>Name /Title of the scheme</b>	<b>No. of students</b>	<b>Amount in Rupees</b>
<b>Financial support from institution and from Private organizations</b>	Fee Concession from Institution	51	86,29,560.00
	SAARTHAKA TRUST	60	3,05,000.00
	Brigade Group Scholarship	17	75,000.00
	Vishalakshi memorial Award	02	50000.00
	M/s Raghuvendra Singh Foundation	09	5,33,000.00
	Jain International trade Org	01	20,000.00
	Mahanagara Palikae Shimoga	01	15,000.00
	Chitrakar Gramodyog	01	1,02,500.00
	Association of Muslim Professionals	01	20,000.00
	Bihar Student Credit card Scheme	05	8,85,350.00
	Convenor Rural development	01	45,000.00
	Director Rural Scholarship Program	01	45,000.00
	Mohammadiya Educational Society	01	20,000.00
	Zilla Kalyanbihar OBC	02	30,000.00
	Arunodaya scholarship	04	60,000.00
	Sitaram Jindal Scholarship	04	40,100.00
	<b>Total</b>	<b>161</b>	<b>1,08,75,510.00</b>
<b>Financial support from other sources</b>			
<b>a) National</b>	<b>Financial support from National and State government</b>		
	KMDC Loan ( For Minorities)	84	41,83,410.00
	AICTE J&K Students	27	16,86,460.00
	Defense Scholarship (DTE)	07	3,24,555.00
	SC/ST Scholarship (Lower Income)	291	1,61,76,230.00
	SC/ST Fee Concession (free Ship)	79	35,10,550.00
	BCM (OBC) Scholarship (Lower Income)	568	1,17,80,700.00
	Merit Cum Means	185	
	PU Board Higher Education (MHRD Fresh)	154	
	N H F D C Delhi	01	66,000.00
	<b>Total</b>	<b>1396</b>	<b>3,77,27,905.00</b>
<b>b) International</b>	International scholarship & Tuition service	<b>01</b>	<b>1,40,167.00</b>
<b>5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,</b>			
<b>Name of the capability enhancement scheme</b>	<b>Date of implementation</b>	<b>No. of students enrolled</b>	<b>Agencies involved</b>
Soft skill development	Aug 2018 - Dec 2018 Jan 2019 – May 2019	<b>5045</b> (No. indicates Both Odd and Even Sem of 2 <sup>nd</sup> and 3 <sup>rd</sup> year Students)	10 Seconds Seventh Sense Universal Ethnus
Remedial Classes	19-09-2019	25	Faculty dept. of TCE
	26-10-2019	10	Faculty dept. of TCE
	20-09-2019	24	Faculty dept. of BT

Name of the capability enhancement scheme	Date of implementation	No. of students enrolled	Agencies involved
Language Lab.	Aug 2018 to Nov 2018, Jan-2019 to May 2019	1115	Pearson India Education Services Pvt. Ltd.
Bridge course- Programming in C For Lateral Entry – Diploma (3 <sup>rd</sup> & 4 <sup>th</sup> Sem)	2018-19 Even Semester	80	Department of CSE, RVCE
	2018-19 Odd Semester	120	Department of CSE, RVCE
Bridge course- Mathematics For Lateral Entry – Diploma (3 <sup>rd</sup> & 4 <sup>th</sup> Sem)	2018-19 Even Semester	120	Department of Maths, RVCE
	2018-19 Odd Semester	80	Department of Maths, RVCE
Yoga & Meditation	19 <sup>th</sup> – 21 <sup>st</sup> June 2019	108	Patanjali Yoga Shikshana Samithi
	30 <sup>th</sup> July 2018	750	Patanjali Yoga Shikshana Samithi
Personal Counselling and Mentoring	Throughout the semester	4240	Teaching faculties of the Department

### 5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	No. of benefited students by Guidance for Competitive examination	No. of benefited students by Career Counselling activities	No. of students who have passed in the competitive exam	No. of students placed
2019	1.Gate preparation training 2.Career Orientation (Talk by Byjus training agency)	65	45	nil	nil

### 5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
06	06	10 Days

## 5.2 Student Progression

### 5.2.1 Details of campus placement during the year

On campus			Off Campus
Name of Organizations Visited	No. of Students Participated	No. of Students Placed	No. of Students Placed
42 Gears	65	2	BE Civil - 58
Abb	45	1	M.Tech RFMW - 04
Accenture	332	125	
Accolite	84	3	
Aditya Birla Fashion & Retail	63	5	
Affirmed N/W	125	2	

Name of Organizations Visited	No. of Students Participated	No. of Students Placed	No. of Students Placed
Airasia	119	1	
Airtel	88	4	
Akamai	83	2	
Akzobel	39	4	
Alp Consulting	75	39	
Altimetrik	51	1	
Amadeus Labs	79	5	
Amazon	107	2	
AMD	64	5	
Ansys	61	1	
Aruba Hpe	141	27	
AT&T	116	3	
Atlassian	91	2	
AWS (Amazon Web Services)	116	2	
Axiscades	87	2	
Baxter	73	9	
BCG	230	4	
Berger Paints	29	1	
Betsol	61	1	
Bidgely	123	2	
Bigbasket	107	2	
Boeing	117	3	
Byjus	173	36	
Carl Zeiss	77	4	
Cartesian Consulting	71	3	
Catamaran / Soroco	139	9	
Centum	96	8	
Cerner	159	21	
Cipla	44	2	
Cisco	310	58	
Citrix	189	16	
Cloudthat Technologies	88	1	
CME	47	5	
Cognizant	383	47	
Cohesity	66	1	
Color Tokens	107	5	
Conduent	177	9	
Cotzero	71	2	
Couchbase	104	2	
Covance	105	12	
Credit Suisse	43	2	
CropIn	39	2	
Cypress	116	8	
Deevia	110	6	
Dell	66	3	
Dvara Solutions	91	4	
Dxc	89	5	
Eci Telecom	73	1	
Edgeverve	147	9	
Eduvirtuoso	114	13	



Name of Organizations Visited	No. of Students Participated	No. of Students Placed	No. of Students Placed
Eka Software	119	5	
Eleation	66	3	
Elgi	44	1	
Enquero Global	88	5	
Epsilon	114	7	
Ernst & Young (EY)	77	4	
Evalueserve	105	3	
Everest Ims	32	2	
Exl Analytics	113	8	
Expedia	61	1	
Extreme Networks	90	5	
Exxonmobil	117	5	
Federal Mogul	53	3	
Fractal Analytics	59	1	
Freight Wings	43	1	
Futures First	77	3	
Gale	89	4	
General Electric (Ge)	109	6	
Genpact	123	10	
Gigsky	63	1	
Godrej	41	1	
Goldman Sachs	189	9	
Goodera	73	4	
Greaves Cotton	83	6	
Hcl	108	9	
Hevodata	65	1	
Hikal	37	1	
Himatsingka	107	5	
Honeywell	122	13	
Hortonworks	57	2	
HPE	141	10	
HSBC	78	5	
HUL (Etit)	72	5	
IBM	140	19	
Impact Analytics	113	11	
Indegene	61	4	
Infinera	44	5	
Infosys	275	38	
Infosys (Specialist Programmer)	66	4	
Infoworks	61	2	
Inmobi	48	1	
Instamojo	62	4	
Intel	78	6	
Inteva	81	4	
Intuit	52	1	
ITC ABD	73	3	
Jcpenney	72	3	
Jiva Science	47	2	
Jll (Jones Lang LaSalle)	65	5	
JMC	52	1	

Name of Organizations Visited	No. of Students Participated	No. of Students Placed	No. of Students Placed
Jp Morgan	203	12	
JSW	51	6	
Kaleyra	55	2	
KPIT	137	37	
KPMG	133	14	
Kuliza	89	11	
Kumar Organics	33	3	
Lakshmi Design	24	2	
Lendingkart	76	4	
Licious	67	2	
Log9 Materials	98	9	
Logmein	73	3	
Mahindra Comviva	117	10	
Manhattan Associates	41	1	
Mathworks	81	2	
Mcafee	76	5	
Media IQ	89	7	
Mercedes Benz R&D India	48	3	
Merk Group	41	2	
Microchip	79	1	
Microfocus	72	2	
Microsoft	210	5	
Miq Digital	117	7	
Mobileum	63	2	
Molecular Connections	67	10	
Multiplex	71	3	
Musigma	81	4	
National Instruments	77	2	
Next Scm	64	1	
Nivara	79	4	
Nokia	131	30	
Novo Nordisk	26	2	
NTT Data	61	5	
Nutanix	85	4	
O9 Solutions	102	8	
Omnicuris	42	2	
One Direct	77	1	
Option3	69	4	
Optum	51	1	
Oracle	79	6	
Oyo Rooms	104	4	
Paytm	110	3	
Perfios	41	1	
Philips	114	20	
Proptiger	77	2	
PWC	111	26	
Qualcomm	117	13	
Quikr	101	2	
Qunu Labs	61	2	
Rambus	71	5	

Name of Organizations Visited	No. of Students Participated	No. of Students Placed	No. of Students Placed
Reliance Industries	66	8	
Robert Bosch	217	63	
Ruckus Wireless	33	1	
Rxlogix	41	1	
Saankhya Labs	75	5	
Salesforce	89	2	
Samsung	110	5	
Samsung R&D (Noida)	52	1	
Sandvine	81	2	
SAP	86	10	
Schneider Electric	87	3	
Siemens	83	9	
Signalchip	55	2	
Sling Media / Dish	109	2	
Smartly Built	87	2	
SocieteGenerale	66	4	
Sony	71	5	
Spectra	39	2	
Sqare Yards	28	1	
Standard Chartered	67	7	
Stellium	72	7	
Sterling & Wilson	62	7	
Synchron (Expert Services)	74	5	
Synopsys	117	3	
Tally	122	4	
Target	77	2	
Taylor & Francis	71	2	
TCE	87	8	
TDPS	46	1	
Tejas Networks	79	4	
Tektronix	64	6	
Temairazu	63	2	
Texas Instruments	131	8	
Textron	62	7	
THBS	49	3	
The Math Company	73	6	
Toyota Kirloskar	31	1	
Tredence	88	14	
TVS	49	5	
Ugam	114	13	
Unbxid	46	1	
Unisys	61	4	
Utc Aerospace	55	4	
Valuebound	71	5	
Vantage Agora	62	3	
VECV	41	3	
Vedanta Group	83	12	
Veoneer	44	1	
Viacom18	94	7	
Volvo	39	3	

Name of Organizations Visited	No. of Students Participated	No. of Students Placed	No. of Students Placed
Walmart Labs	213	7	
Wdc (Sandisk)	171	5	
Whatfix	33	1	
Widas	41	1	
Wipro (Turbo)	133	10	
Wsp	41	2	
Y Medialabs	33	1	
Yahoo	42	1	
Zapr	81	3	
Zenken	38	1	
Zs Associates	79	8	
Zynga	67	3	
<b>Total</b>	<b>218</b>	<b>1462</b>	

### 5.2.2 Student progression to higher education in percentage during the year – 2018-19

Year	No. of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-19	47	Bachelors of Engineering	Biotechnology	University of Glasgow,	MSc., in Bioinformatics,
		Bachelors of Engineering	Biotechnology	University of Penn State	MS, in Bioinformatics,
		Bachelors of Engineering	Biotechnology	NIMHANS, Bangalore	MPhil in Biophysics
		Bachelors of Engineering	Chemical Engineering	Raman Llull University Barcelona	Master of science in marketing management
		Bachelors of Engineering	Civil Engineering	Bauhaus-University of Weiman, Germany,	Digital Engineering (Master of Science)
		Bachelors of Engineering	Civil Engineering	University of Illinois at Urbana-Champaign	Post Graduate Program in Advance Construction Management
		Bachelors of Engineering	Civil Engineering	NICMAR Pune,	
		Bachelors of Engineering	Civil Engineering	Delft University of Technology	Master Civil Engineering (track Transport & Planning)
		Bachelors of Engineering	Civil Engineering	IIT Delhi	Master of Technology
		Bachelors of Engineering	Civil Engineering	MP Birla Institute of management, Bengaluru,	Master of Business Administration
		Bachelors of Engineering	Civil Engineering	NIT Karnataka, Surathkal	Ph.D
		Bachelors of Engineering	Computer Science &	Carnegie Mellon University	Master of Science

		Engineering		
	Bachelors of Engineering	Computer Science & Engineering	University of Groningen	Master of Science
	Bachelors of Engineering	Computer Science & Engineering	University of Southern California	Master of Science
	Bachelors of Engineering	Computer Science & Engineering	Teaching Assistant at University of Toronto	Master of Science
	Bachelors of Engineering	Computer Science & Engineering	Yale school of management	Master of Business Administration
	Bachelors of Engineering	Computer Science & Engineering	University of Virginia	Master of Science
	Bachelors of Engineering	Computer Science & Engineering	Graduate Student at New York University	Master of Science
	Bachelors of Engineering	Computer Science & Engineering	Georgia Tech's College of computing	Master of Science
	Bachelors of Engineering	Electrical & Electronics Engineering	Texas A & M university,	Master of Science
	Bachelors of Engineering	Electrical & Electronics Engineering	Program at the University of Pennsylvania	MSE
	Bachelors of Engineering	Electrical & Electronics Engineering	RUTGERS school of Engineering	Master of Science
	Bachelors of Engineering	Electronics & Communication Engg	Texas A & M university	Electrical Engineering
	Bachelors of Engineering	Electronics & Communication Engg	Northeastern University	Electrical, Computer energy engineering
	Bachelors of Engineering	Electronics & Communication Engg	Northeastern University	Engineering Management
	Bachelors of Engineering	Electronics & Communication Engg	University of California	Electrical & Computer Engineering
	Bachelors of Engineering	Electronics & Communication Engg	Stevens Institute of Technology	Management Information System
	Bachelors of Engineering	Electronics & Communication Engg	University of California Irvine	Electrical & Computer Engineering
	Bachelors of Engineering	Electronics & Communication Engg	Carnegie Mellon University	Robotics mellon
	Bachelors of Engineering	Electronics & Communication	Lakehead University	Electrical & Computer

			Engg		Engineering
		Bachelors of Engineering	Electronics & Communication Engg	Western University	Signal Processing & Communication
		Bachelors of Engineering	Electronics & Communication Engg	University of Southern California	Electrical Engineering
		Bachelors of Engineering	Electronics & Communication Engg	Texas A & M university	Electrical & Electronics Engineering
		Bachelors of Engineering	Electronics & Communication Engg	Northeasternuniversity,	Computer Engineering
		Bachelors of Engineering	Electronics & Communication Engg	Arizona State	Robotics and Autonomous System
		Bachelors of Engineering	Electronics & Communication Engg	Southern California	Electrical Engineering
		Bachelors of Engineering	Electronics & Instrumentation Engineering	The OHIO State University, Columbus	Electrical and Computer Engg.,
		Bachelors of Engineering	Electronics & Instrumentation Engineering	Delft University of Technology	MSc. In Master Management of Technology
		Bachelors of Engineering	Electronics & Instrumentation Engineering	IIM, Visakhapatnam.	PGP
		Bachelors of Engineering	Information science and Engineering	University of Rochester	Data Science
		Bachelors of Engineering	Information science and Engineering	Carnegie Mellon University(Information Networking Institute)	MS in Information Security
		Bachelors of Engineering	Information science and Engineering	Duke University's Fuqua School of Business	Master of Quantitative Management: Business Analytics Program
		Bachelors of Engineering	Information science and Engineering	Arizona State University	MS in Software Engineering
		Bachelors of Engineering	Industrial Engineering & Management	Arizona State University	Global Logistics Masters Program
		Bachelors of Engineering	Telecommunication Engineering	Technische Universität München	MS
		M.Tech	Telecommunication Engineering	BITS Pilani, Hyderabad	Ph.D

<b>5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET / SET / SLET / GATE / GMAT / CAT / GRE / TOFEL / Civil Services / State Government Services)</b>		
<b>Items</b>	<b>No. of Students selected/ qualifying</b>	<b>Registration number/roll number for the exam</b>
NET	Nil	
SET	<b>1</b>	AA269
SLET	Nil	
GATE	<b>23</b>	AE19S41238097 AE19S41237233 AE19S41236175 CE19S81237118 CE19S71235147 CE19S81235176 EC19S51232499 EC19S51239041 EC19S51230023 CS19S31235086 EC19S51227611 EC19S51228050 EC19S51246112 CS19S31237361 ME18S11227143 ME18S11236377 ME18S11235092 ME18S21236316 ME18S21236194 ME18S11237162 ME18S21235154 ME18S11236288 BT18S41220044
GMAT	<b>01</b>	100003510512
CAT	<b>08</b>	8156770 8050131 8024688 8078866 8180578 8257996 8017481 8081049
GRE	<b>43</b>	5695196 6441852 3773723 4072686 2986853 2986737 4265461 4534527 6400751

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
GRE	43	3411812 3744547 3915537 3758636 3869108 3795849 1984057 4257134 4481949 3637297 3843304 4427347 4549060 4188296 3094667 4043452 3116539 3890804 3598630 4289366 3544463 4350773 3902308 3722924 2487991 5672215 5765605 5846806 5886964 4140532 5898922 4889106 5917412
TOFEL	29	000000004781359 0000000034462909 0000000034143178 0000000034410730 0000000034007661 0000000034262055 0000000034448554 0000000034721419 0000000034420968 0000000034035083 000000003242 9202 0000000034259489 0000000033956664 0000000033992506 0000000034505548 0000000033141928 0000000034213249



Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
TOFEL	30	0000000034616531 0000000032234224 0000000034061659 0000000034099197 0000000034529411 1823308190687394 8043810149109289 5636211191093604 1641713190926993 0000000034096803 0000000033941913 5185808190745631
IELTS	11	107306 155726 001326 246705 114352 434399 018828 440370 137671 155359 331208
Civil Services	04	0309781 0317311 0321600 0333988
State Government Services	01	53362
Any Other		

#### 5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Sports		
Activity	Level	Participants
Sri Chamaraju Memorial Cricket Tournament, 18 <sup>th</sup> Feb to 1 <sup>st</sup> Mar 2019	State	24 Teams
Sri. D.A Pandu Memorial Tennis Men & Women Tournament - 08 <sup>th</sup> to 10 <sup>th</sup> Feb 2019	State	05 Teams (Men) 05 Teams (Women)
Kho-Kho Men Tournament 08 <sup>th</sup> to 10 <sup>th</sup> Feb 2019	Inter Engineering Collegiate	06 Teams
Football Men Tournament 08 <sup>th</sup> to 10 <sup>th</sup> Feb 2019	Inter Engineering Collegiate	16 Teams (Men)
Badminton Men & Women Tournament 08 <sup>th</sup> to 10 <sup>th</sup> Feb 2019	Inter Engineering Collegiate	07 Teams (Men) 06 Teams (Women)
Basketball Men and Women Tournament 08 <sup>th</sup> to 10 <sup>th</sup> Feb 2019	Inter Engineering Collegiate	10 Teams (Men), 07 Teams (Women)
VTU Volleyball Tournament (University Level) - 09 <sup>th</sup> & 10 <sup>th</sup> Mar 2019	Bangalore South Zone	17 Teams (Men)
VTU Handball Tournament (University Level) 02 <sup>nd</sup> & 03 <sup>rd</sup> Apr 2019	Bangalore South Zone	10 Teams (Men)

Cultural		
RV Debating Tournament August 2018 RVCE Debating Society	International	Over 180- participants from over 30 Institutions, including Oxford University, University of California, IIT Bombay, and National Law School of India University.
International Competition for Young Debaters- India Qualifiers February 2019-RVCE Debating Society	National	30 Participation from schools in Jaipur, Dehradun, Ahmadabad and Bangalore
Rangataranga - State Level Theatre Competition March 2019-Kannada CARV	State - Level	160 participants from 12 Institutions and held a acting workshop which was conducted by National School Of Drama, Bengaluru
Coliseum - National Level Theatre Competition March 2019-CARV English	National	150 Participation from colleges from Karnataka, Tamil Nadu and more
Sweden India Nobel Memorial Quiz October 2018-RV QuizCorp	National	Over 350 participation
Engima October 2018, RV QuizCorp	Regional	100 Participants from Bengaluru regional Colleges
Indikya - National Level India Quiz August 2018, RV QuizCorp	Regional	50 Colleges from Bengaluru colleges
Under the peepal Tree – UTPT March 2019, RV QuizCorp	National	1000 College students and General public

### 5.3 Student Participation and Activities

#### 5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
Sports						
2018-19	<b>Gold Medal</b> in All India Inter-University Shooting championship	National	Sports/ Shooting		1RV16IM063	Krishna Prasad Tejas
	<b>2 Gold Medals</b> in 4x200 Free style relay & 4x100 Medley relay and <b>1 Bronze</b> in 100m Fly.	National	Sports/ Swimming		1RV16AS064	Avinash M

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
	<b>4 Silver and 1 Bronze</b> medal in All India Inter-University Swimming Championship	National	Sports/ Swimming		1RV16AS064	Avinash M
	Selected to represent Asia Oceania Beach Ultimate Championship at Japan	International	Sports/ Swimming		1RV17HCE11	Stania D Oeris
	Represented India in Asian Games held at Jakarta, Indonesia from 18 <sup>th</sup> August to 02 <sup>nd</sup> Sep 2018	International	Sports/ Swimming		1RV16AS064	Avinash M
	Selected to represent Asia Oceania Beach Ultimate Championship at Japan	International	Sports/ Frisbee		1RV17HCE11	Stania D Oeris
	10 <sup>th</sup> place in 11 <sup>th</sup> Chennai Open International GM Chess Tournament held at Chennai from 18 <sup>th</sup> to 25 <sup>th</sup> January 2019	National	Sports/ Chess		1RV15EC047	Girish A Koushik
	National Ranking East zone Table Tennis tournament at Guwahati from 25 <sup>th</sup> to 30 <sup>th</sup> Sep 2018.	National	Sports/ Table Tennis		1RV16EC105	ShreyasKulkarn
	Represented VTU in All India Inter-University Wrestling	National	Sports/ Wrestling		1RV15BT036	Rani C R
	Represented VTU in All India Inter-University Mallakhamba Championship	National	Mallakhamba		1RV18MPD26	Shivaraj Gouda Patil

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
<b>Cultural</b>						
2018-19	Winners DEBSOC British Parliamentary Quiz, Symbiosis Law School	National		Cultural	1RV15EC180	Vasundhara Paul
					1RV15ME060	Piali Bopanna
					1RV17ME125	Vishwa Bhat
					1RV16AS046	Sameeksha
					1RV16AS007	Anagha Gowda
					1RV16BT002	Akashraj Murthy
					1RV16BT041	Sanutha Shetty
					1RV17TE030	Rohit Kulkarni
					1RV15AS047	Nishanth S
					1RV15BT043	Shruthi S
					1RV16IS032	Nikhila D
					1RV17TE015	Pradyumna
					1RV17BT042	Sandesh
	Runners DEBSOC Gujarat National Law University, Ahmedabad	National		Cultural	1RV15EC180	Vasundhara Paul
					1RV15ME060	Piali Bopanna
					1RV17ME125	Vishwa Bhat
					1RV16AS046	Sameeksha
					1RV16AS007	Anagha Gowda
					1RV16BT002	Akashraj Murthy
					1RV16BT041	Sanutha Shetty
					1RV17TE030	Rohit K
					1RV15AS047	Nishanth S
					1RV15BT043	Shruthi S
					1RV16IS032	Nikhila D
					1RV17TE015	Pradyumna
					1RV17BT042	Sandesh
	First Place CARV Hindi (Street play) CARV Hindi (Street play)	National		Cultural	1RV16ME077	Prateek Singh Dobal
					1RV16EI046	Snigdha Mishra
					1RV16EC195	Rohan Agarwal
					1RV16CV035	Divyandhu
					1RV16CV086	Saransh Gupta
					1RV16CV097	Sohum Garg
					1RV16CV115	Ujwal Bansal
					1RV17EI020	Divya B
					1RV17EI048	Shashwat Raj

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
	First Place CARV Hindi (Street play) CARV Hindi (Street play)	National		Cultural	1RV17EI036	Poojakumari
					1RV17CS064	Jayesh Dhanuka
					18UG1REG0594	Khushi Garg
					18UO1REG0043	Shourya Gupta
	2 <sup>nd</sup> Place CARV Kannada (street play)	National		Cultural	1RV16CS082	Milan Sai
					1RV16IS005	Amber
					1RV16TE049	Siddharth Tathagat
					1RV17BT030	Shruti Reddy
					1RV17CV120	Tapas Goyal
					1RV17CS064	Jayesh Dhanuka
					1RV17CV013	Ankita Baddi
					1RV17IS043	Shubham Raj
					1RV17CV050	Kaushik Jha
					1RV17EE015	Harsh Khatri
					18UG1REG0584	Shreth Maheswari
					18UG1REG0803	Riya Sharma
					18UG1REG1050	Sakshi
	2 <sup>nd</sup> Place CARV Kannada (Mime)	National		Cultural	1RV17EE023	Kiran Kumar Patel
					18UG1REG0787	Prerna K S
					18UG1REG358	Apoorva K
					18UG1REG0590	Srishti Tyagi
					1RV17CS110	Pranav B M
					1RV17CV041	Gagan Patel B
					1RV17AS025	Madhu C M
					1RV16CV071	Pavan Dandak B R
					1RV16EC116	Pramoth Darshan S
					1RV16TE039	Sachin B S
					1RV16TE009	Charan K R
					1RV15CV012	Ankith Gowda H V
					1RV15ME086	Rithesh N M
					1RV15CV100	Siddharth B S
					1RV15ME121	Vasudev Adiga
					1RV15CV107	T S Prajwal
					1RV15CV069	Raj Vedanth G
	1 <sup>st</sup> place CARV Kannada (Mad Ads)	National		Cultural	18UG1REG0454	Yashika Harish
					1RV17CS171	Swathi N R
					1RV17EI045	Sachin

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
	1 <sup>st</sup> place CARV Kannada (Mad Ads)	National		Cultural	1RV16IM056	Varun S Kumar
					1RV16CS110	Rakshith H V
					1RV16EI041	S Sanjana
					1RV16TE009	Charan K R
					1RV15CV012	Ankith Gowda H V
					1RV15CV100	Siddharth B S
					1RV15CV069	Raj Vedanth G
	1 <sup>st</sup> Place CARV English (Dramatics) IIT-M, Chennai	National		Cultural	1RV16CS007	Adithya V
					1RV16CS155	Soumyadeep A
					1RV16IM009	Amulya A
					1RV17EC149	Shriya B
					1RV18IM050	Samarth R
					1RV18CH004	Prabhu
					1RV16BT043	Shreya Sai R
					1RV16CS187	Aishwarya S
					1RV16EC001	A Bragadeesh
					1RV16CS188	Akshata K
					1RV16IM006	Archana B G
					1RV16BT034	Rebecca D S
					1RV17BT052	Sri Raksha B K
					1RV16CS071	Maithreyi P
					1RV17CS011	Aishrith D R
					1RV16CS058	Harshitha S
					1RV16CS126	Ruchita S
					1RV18CS053	Dinesh Babu
					1RV18EC038	Abhivesh N S
					1RV18EC063	Shriya K S
					1RV15BT048	Smruthi P
	1 <sup>st</sup> place ALAAP(Acoustics) IIT-M, Chennai	National		Cultural	1RV18TE010	Dhanya B
					1RV18EE044	Revathi M S
					1RV18EC086	Mohit Bm
					1RV18BT014	Bhoomika Y
					1RV18EC122	Raghav Rawat
					1RV18BT013	Benedict Prajwal
					1RV18CH027	Shweta A Ram
					1RV18ME054	Johnson Sabu
					1RV18ME109	Sumukha Nadig
					1RV17EC014	Anirudh K
					1RV17CS073	Karthikeya
					1RV17CS183	Vishak S B
					1RV17IS056	Vinanth S B
					1RV17EC111	Puroshotham

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
	1 <sup>st</sup> place ALAAP(Acoustics) IIT-M,Chennai	National		Cultural	1RV17CS192	Sagar
					1RV17EC093	Niscith T R
					1RV17CS121	Ram Garg
					1RV17EC019	Anubhav D
					1RV17EI006	Ananya Rao
					1RV17CS175	Uday Salvar
					1RV16CS052	Koustubh G R
					1RV16IM043	Sanjay Visa
					1RV16BT027	Pavithra S
					1RV16ME062	Mudit Vyas
					1RV16EC053	Disha
					1RV15EE008	Anirudh Sharma
	1 <sup>st</sup> Place DEBSOC Indian Law School –Pune	National		Cultural	1RV16AS046	Sameeksha Rao
					1RV16AS007	Anagha G
					1RV18AS045	S Abhilash Reddy
					1RV16CH036	Vikash Rao
					1RV16IS032	Nikhita D
					1RV15ME060	Piate Bopanna
					1RV18ME070	Nikhil C G
					1RV18ME041	Dhruv Gupta
					1RV16BT002	Akash Raj Murthy
					1RV17TE022	Nav Hiren Sheth
					1RV18CS100	Neel Bhandari
					1RV18CS165	Shruvana Mishra
					1RV18CS009	Adithya N
					1RV18CH028	Saurav Adithya
	Winners DEBSOC PES Bangalore	National		Cultural	1RV16AS046	Sameeksha Rao
					1RV16AS007	Anagha G
					1RV18AS045	S Abhilash Reddy
					1RV16CH036	Vikash Rao
					1RV16IS032	Nikhita D
					1RV15ME060	Piate Bopanna
					1RV18ME070	Nikhil C G
					1RV18ME041	Dhruv Gupta
					1RV16BT002	Akash Raj Murthy
					1RV17TE022	Nav Hiren Sheth

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
	Winners DEBSOC PES Bangalore	National		Cultural	1RV18CS100	Neel Bhandari
					1RV18CS165	Shruvana M
					1RV18CS009	Adithya N
					1RV18CH028	Saurav Adithya
	Runners DEBSOC Christ Univesity	National		Cultural	1RV16AS046	Sameeksha Rao
					1RV16AS007	Anagha G
					1RV18AS045	S Abhilash Reddy
					1RV16CH036	Vikash Rao
					1RV16IS032	Nikhita D
					1RV15ME060	Piate Bopanna
					1RV18ME070	Nikhil C G
					1RV18ME041	Dhruv Gupta
					1RV16BT002	Akash Raj Murthy
					1RV17TE022	Nav Hiren Sheth
					1RV18CS100	Neel Bhandari
					1RV18CS165	Shruvana Mishra
					1RV18CS009	Adithya N
					1RV18CH028	Saurav Adithya
	1 <sup>st</sup> Prize Foot prints(Eastern and Western solo) Jain College	National		Cultural	1RV16EC003	A V Shruti
					1RV16EC038	Ayush Srivastav
					1RV16CV094	Sudhanshu
					1RV17EC405	Krishan
					1RV16IS059	Vaishnav
					1RV16EI034	Nivedita
					1RV16CV106	Sumith
					1RV15CH028	Shalan
					1RV17CV011	Anush Gupta
					1RV17CS127	Rujule Singh
					1RV17AS011	Ashliga
					1RV18AS408	Prajwal S
					1RV17IM002	Adithi Jha
					1RV18BT055	Surabhi
					1RV18EI041	Prakruthi
					1RV18EI015	Vinsent
					1RV18AS052	Shrisha
					1RV18BT020	Isha
					1R18IM033	Nandini
					1R8EE036	Pooja R
					1R18EC015	Parth
					1V18CV044	Bopanna



**5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)**

Student representation in Board Of Studies(BoS) Department of CSE

- PG Alumni Attended BoS Meeting held on 11/08/2018,-
- Mr. Ravi Kumar Pareet – ABB India(PG-Alumni)

**5.3 Alumni Engagement****5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): YES**

The Alumni Association of RVCE [AARVCE] was registered in the year 1982 under the Society act. It is doing service to the society and also supporting for institutional growth through Alumni Bridge. The Association (AARVCE) is regularly planning and executing meaningful event in the institution through the departments in fulfilling its vision. We are proud to mention that few notable alumni are in close contact with their departments who facilitated to establish an industry supported laboratories in the institution.

The **annual get-together** of the Association is scheduled on **15<sup>th</sup> August** (Indian Independence day) every year in RVCE campus. The day begins with flag hoisting followed by traditional celebration with the involvement of NCC candidates. The office bearers of the Association actively participate in the proceedings and interact with the Alumni who attend the get-together. In order to further strengthen the activities, the office bearers meet once in a month (Last Saturday) in the campus and interact with Alumni coordinator of all the departments. This keeps the process alive and reduces the gap between each activity. As a result of this the institution and association jointly suggested to have alumni interaction(get-together) department-wise every month as under:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
Dept	CE	EEE	ME	ECE	IEM	EIE	CHE	CSE	TCE	ISE	BT

The proposed model is introduced since 2016 and the outcome of the event is satisfactory.

The Association on an ongoing basis honours the outgoing meritorious students (silver medal to 2<sup>nd</sup> rank holder of each UG and PG program) of the college. The Association has instituted scholarships on merit-cum-need basis for the undergraduates of the college. To fulfil the above activities and proposals the association requires to establish a strong network amongst the alumni.

The Association plans to setup guidance cell to aid the present and past students in the task of trying to give their future a definite and purposeful direction. The guidance cell, apart from assisting the placement cell, will also assist present students in availing project facilities in various industries in their area of interest.

The association has its own website <http://rvcealumni.org> . It posts alumni events, achievers, recent alumni news, and best career opportunities. RVCE Alumni Android application is also available in play store for the alumni to download on their mobile which gives them all the information of the association on the finger tips. The other tags available on the web site are Home, Alumni events, News, Gallery, Frequently asked question, Alumni jobs, App, Notable and funding.

Association board members are **Mr. S. RamaKrishna**, *President*, **Mr. Gopal Bengeri**, *Vice President*, **Prof. Srinath**, *Secretary*, and **Mr. NateshBabu**, *Treasurer*.

**SAARTHAKA TRUST** – Registered alumni association of Civil Engineering, RVCE identifies meritorious among various disciplines of engineering students every year. The function will be held on second Saturday of September every year to distribute the scholarship. During the academic year 46 students were benefitted with an amount of Rs. 2,30,000.00

#### 5.3.2 No. of registered Alumni: 13989

#### 5.3.3 Alumni contribution during the year (in Rupees) : Rs. 5,79,000/-

Alumni batch of 1993, 1982, 1983, raised a fund of Rs. 2.5 lakhs to benefit poor students of RVCE. In dept. of Electrical and Electronics Engineering Rs. 24,000/- is given to first three ranks of the outgoing batch and highest score obtained in Engineering mathematics course.

**SAARTHAKA TRUST** – Registered alumni association of Civil Engineering, RVCE identifies meritorious among various disciplines of engineering for 50 students, on second Saturday of September every year. Previous year 60 students were offered scholarship benefit to the tune of Rs. 3,05,000/-

An alumni from the department of Industrial Engineering and Management has instituted a Godal Medal for outstanding academic performance in the area of Industrial Engineering which will be awarded to one student during the Graduation Day ceremony every year.

#### 5.3.4 Meetings/activities organized by Alumni Association :

RV College of Engineering in association with RVCE Alumni Association organises various meeting and interaction events with our alumni throughout the year. This includes an Annual General Body meeting held on August 15 (every year) and alumni day held in each dept. In the year 2019 an exclusive event 'Reunion day' organised by dept. of civil engineering for 1998 batch. The alumni day organised by each dept. is tabulated below and the detailed report is given below.

Sl. No.	Meeting/Activity organised	Date	No of Participants
1.	Reunion Day Civil Engineering 1998	04 January 2019	24
2.	Civil Engineering	09 February 2019	18
3.	Electrical and Electronics Engineering	24 February 2019	24
4.	Mechanical Engineering	30 March 2019	47
5.	Electronics and Communication Engineering	05 May 2019	61
6.	Industrial Engineering and Management	25 June 2019	15
7.	Electronics and Instrumentation Engineering	29 June 2019	40
8.	Master of Computer Applications	29 June 2019	29
9.	Chemical Engineering	10 August 2019	53
10.	Annual General Body	15 August 2019	22
11.	Computer Science and Engineering	24 August 2019	42
12.	Electronics and Telecommunication Engineering (Telecommunication Engg.)	21 September 2019	16
13.	Information Science and Engineering	12 October 2019	32
14.	Biotechnology	24 November 2019	13

## Criterion VI – Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership- VISION:

Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, with a focus on Sustainable and Inclusive Technology.

#### MISSION:

- To deliver outcome based quality education, emphasizing on experiential learning with state of the art infrastructure.
- To create a conducive environment for interdisciplinary research and innovation
- To develop professionals through holistic education focusing on individual growth, discipline, integrity, ethics and social sensitivity.
- To nurture industry-institution collaboration leading to competency enhancement and entrepreneurship
- To focus on technologies that are sustainable and inclusive, benefiting all sections of the society.

#### VALUES:

- To inculcate a strong sense of honesty, commitment to quality, ethics, teamwork and adapting and respecting the institutional and local culture
- A general sense of civility and decency in one's communication, appearance and behaviour

#### QUALITY POLICY:

- Excellence in Technical Education, Interdisciplinary Research and Consultancy through Outcome Based Curricula focusing on Continual Improvement by Benchmarking with Global Practices and beyond stakeholders expectations

### 6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

#### Decentralization of Administration at the Institutional Level

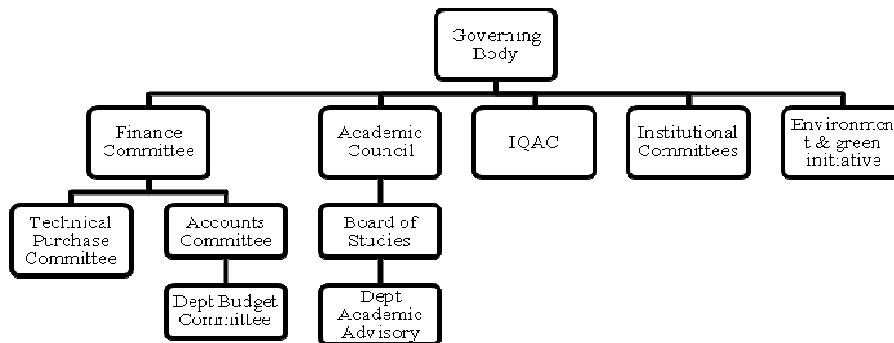
The institution has academic programs at the Under Graduate, Post Graduate & Research levels. In order to decentralize the administrative process, every department is being managed by the Head of the Department who is made responsible and accountable for all the activities at the department level. There are 11 Engineering Departments and three Basic Sciences Departments. In addition there is a separate department to cater to the needs of the Master of Computer application students. This department is being managed by a Director who takes responsibility for the smooth functioning of the department. In addition to this, in order to emphasize and focus on various aspects of the institutional administration, A Dean (Academics) is appointed to take care of all the academic planning & implementation and a Dean (Students Affairs) is appointed in order to address all the students related matters and grievances (if any). The Examination wing in the autonomous institutions plays a pivotal role in maintaining the confidentiality and integrity of the examination affairs. Accordingly the institutional administration has created a role of the Controller of Examination (CoE) who is the statutory authority on all Examination affairs. There are separate activity heads to manage the cultural activities and Sports activities of the students in the institution. A role known as Dean (Cultural Activities Team CAT) is created in order to motivate the students to take part in various cultural and extracurricular activities at the regional, state, national and international levels. This role assumes importance in the wake of the recent mandate announced by AICTE to involve the students of the engineering/Technology degree programs in Socially useful productive work (SUPW) starting from their first year of their four year degree program. In addition to all these administrative roles, there is a separate Department for Sports & Physical education. The student of the institution takes active part in sports at the Intercollegiate levels, University level, Regional, National & International Levels. In order to manage the sports affairs of the institution and pass on the benefits of the schemes announced by the Management of the institution to Sports men & women, the Department of PED has appointed a Qualified Physical Education director and a team of professionals to take care of the day to day

affairs of the Sports. A Faculty oversees the activities of the Department of physical education & sports. In addition a Chief librarian takes care of the Department of library & information sciences and the Knowledge repository of the institution. In addition to all these roles and responsibilities in order to manage the physical resources of the campus, the Management of the institution has appointed a Deputy director to take care of the resources of the institution as part of the central administration team.

**Participative Management of the Institution:** - There are about 27(?) committees constituted by the institution to take care of the multifarious activities of the institution. Some of these committees are statutory in nature and many of them are functional in nature. The important committees constituted includes the Infrastructure committee, the Internal Quality assurance cell, Research advisory committee, Academic planning & Examination Committee, Student related committees such as the Cultural activities team, NCC, NSS, Centre for Gandhian inclusiveness & equity, Science forum and Magazine Committee. In addition there is A Hostel disciplinary committee to take care of the Hostel discipline reporting to the Chief warden, warden and Deputy warden of the Hostel and a student's body of Placement coordinators to assist the Dean (Placement & training) in the day to day activities of the Department of placement & training. There are other functional committees such as the Sports committee, Auditorium committee, Canteen committee, Transport Committee, A coordination committee to promote alumni interaction, Scholarship Committee, Information & public relation committee and Statutory committees as per UGC/AICTE/VTU and other statutory bodies such as the Internal Complaints committee, SC/ST Grievance Redressal cell, Anti-Sexual harassment committee. In addition there is an Anti-ragging, Drug abuse, Smoking, Alcohol consumption- Review committee at strategic level and a similar committee at the operational level. The need to setup collaborative programs to benefit the students in terms of internship opportunities and to work closely with industry and forge Memorandum of Understanding and Working agreements both at the Department level and the institutional level gave rise to setting up the Industry Institute Partnership Cell, to assist the Head of Institution in managing the activities oriented at cementing bondage between the institution and the industries at regional, national and international levels.

Inclusiveness requires participation of various stake holders and openness in governance. To achieve good governance through Governing Body (GB), the GB takes the inputs from various branches of institutional committees, which requires leaders and dedicated team.

Based on the categorization RVCE has adopted the following flow.



The flow shows decentralization of implementation but single attainment assessment process. It gives equal opportunities on competence irrespective of gender. Keeping inclusiveness in mind various statutory and non-statutory committees have been set up in the institution for good and better governance, this also brings transparency.

Sustainability is an important factor of good Governance and it is important that all the stake holders act responsibly to achieve this. Strategic plan – identifying a clear development path for the institution, through its long-term academic, research and business plans is the responsibility of Governing Body.

**6.1.2 Does the institution have a Management Information System (MIS)?****Yes**

Partially Implemented and work in progress for full implementation SAP ERP package is introduced presently in Finance & Accounts, Human Capital Management & Materials Management. Student Life cycle Management in progress

**6.2 Strategy Development and Deployment-****6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):**

In order to achieve the strategic goals, the institution governing team looks forward for contributions from every one inside the system and the stake holders. Student and faculty play an important role in building the reputation of the institution; to-days students are tomorrow's alumni who are the brand ambassadors. The long term plans have been laid down in the strategic plan document in consultation with Department committees, joint workshops of senior professors for strategy formulation.

The Institutional Monitoring Planning and Policy Implementation Committee (IMPPIACT) which consists of HoDs and Deans are responsible for continuous improvement through identifying needs, bringing in discipline, defining research activities, future plans etc.

**❖ Curriculum Development: Teaching and Learning:**

**Curriculum Development** being a process that encompasses the design and development of integrated plans for learning, the design of implementation of the plans, and of the evaluation of the plans, their implementation and the outcomes of the learning experience along with the mandate of the AICTE to reduce the number of credits to 175, rolled off a new scheme in 2018-19. Considering the feedback from major stakeholders being the students, alumni, employers and parents, the framework for 2018 scheme emphasized more on electives (professional and global electives), Design thinking lab and Self learning courses. Eight weeks of compulsory industry internship to students would expose all the students to industrial environment. The minor and major project, assignments along with courses with laboratory component emphasizes on the shift from course based learning to project based learning.

**Teaching and Learning process** in the institute puts every student through a judicious blend of concepts and practices associated with ICT tools in a dynamic environment. The institute outlines a big leap from memory based learning to thinking based learning using the Quiklrn platform. This platform provides the student the complete repository of learning material in the form of notes, video lectures, titles of text books/reference books, and links to additional learning materials. This also provides platform for online quiz, evaluates and records the continuous internal evaluation along with the attendance details of each student. The complete reports of individual student is being generated and sent to parents on a regular basis. Additional learning support for slow learners are provided through remedial classes. Tutorial classes are added along with regular classroom teaching to assist students in solving more problems

**❖ Examination and Evaluation****Examination Process**

- Examination and evaluation process of autonomous programs are under the control of examination unit of the institution.
- Under the supervision of Controller of Examination (CoE)

**Examination system**

CoE has three statutory bodies to assist him during the process of examination

1. Examination Board:
2. Grading Advisory Committee (GAC):
3. Malpractice Investigating Committee:

**1. Examination Board:**

- All policy matters related to examination and evaluation process are discussed and decisions are taken.
- Meets at least once in a semester.
- Board consists of one senior faculty from science group, two to four faculty from engineering group, member secretary of Academic Council and Dean Academics.

**2. Grading Advisory Committee (GAC):**

- It consists of Principal, Dean academics, at least three BoS Chairpersons and three nominated members of the rank of Professor/Associate Professor with CoE as convener.
- GAC – To deliberate on I grade application and approve/reject the request.
- Go through the results analysis before announcement of the results and suggest the required changes to academic/exam process without diluting standards. Such changes are to be ratified in Academic Council for implementation.

**3. Malpractice Investigating Committee:**

- Consists of Dean Students Welfare, Dean Academics and two/three senior Professors (with at least one lady faculty) as members and The Controller of Examination as Chairperson and Deputy Controller as Convener.
- Conduction of enquiry into cases of malpractice during examinations and recommend appropriate penalty/punishment.

**Examination Reforms**

Sl No	Description	Scheme / year	Reforms	Scheme /year
1	Criteria for X grade 60% marks in CIE	2007	Criteria for X grade 75% and 90% in CIE	2012 , 2018
2	Closed book SEE	2016	ITC enabled SEE is introduced	2018
3	Software for M Tech thesis evaluation	2017	Update to MCA	2018

**Decoding, Tabulation and Result Processing using in-house designed and developed software(2007-2019)**

- Decoding of answer scripts using barcode reader
- Extracting USN, course code and Marks
- Grade generation and tabulation
- Manual verification of tabulated marks by faculty coordinators and updation if any
- Incorporation of Transitional grades('X','I','W') & MP cases if any after approval from Grading advisory committee.
- Generation of Result sheets and Announcement of Results.
- Conduction of Makeup for I and X grade students.
- Revaluation / Challenge valuation



#### ❖ **Research and Development**

RVCE practices interdisciplinary research in faculty sponsored research and student projects. It is facilitated through Interdisciplinary research centre (IDRC) with state-of-the-art advanced materials processing and characterisation facilities established under Centre of Excellence in Macroelectronics. The grants of Rs 4.0 Crore received by the Institution in 2018-19 through sponsored research and consultancy undertaken by the faculty and quality research publications stand testimony to the commitment to quality research. The Institution strongly promotes Product Development and entrepreneurship which is facilitated by Incubation Centre established with an investment of Rs 3.0 Crore and patenting. The Institution has to its credit 35 patents published in the last three years.

#### ❖ **Library, ICT and Physical Infrastructure / Instrumentation**

The library has the knowledge resources for its readers. Essential additional document collections are made available every year. In 2018-19 books worth Rs.13, 78,202/- were purchased for main library, around 1526 volumes were in total. 233 print journals were subscribed, which meets the requirements of UG/ PG/ Research Program, the renewal amount was Rs.7,70,19/-, e-books are subscribed from Skillsoft, around 29000, e- books are received and the renewal amount was Rs. 6,41,720/- Turnitin Anti-Plagiarism software was renewed from Institution, the renewal amount was Rs.8,32,717/-.The Institution also subscribed to IEEE / IEL Portal, the subscribed amount of Rs.6,13,712 was spent., we receive 508 journals, 5160 conference material, proceedings – 26518, standards – 4026.

#### ❖ **Human Resource Management:**

Human resource management in education is very important. Staff of Education Institution play a very important role in the growth of students by helping them building their careers. They help the students to achieve their educational goals and consequently, national development. Human resources are the key to rapid socio-economic development and efficient service delivery. All educational system at every level depends heavily on the human resources for execution of its programme. The function of human resource management in education includes staff maintenance, staff relations, staff development, and procurement of staff and job performance rewards. Both Teaching and Non-Teaching staff members equally contribute to the overall growth of the Students and the Institution.

#### ❖ **Industry Interaction / Collaboration**

Industry Institute Interaction Cell instituted in the campus consists of co-ordinators from different departments. The Principal and Deputy Director are associated with the cell and guide the activities strategically. The institution has a strong association with industrial, academic and research establishments. This has resulted in setting up of Industry based labs, publications in association with industrial experts, Consultancy Projects, internships to both UG and PG students, industry based electives, training programs by faculty to industry representatives, expert lectures by industry experts, industry visits .The industrial experts are also involved in Academic Council and Board of Studies of various departments. The institute and faculty members are also associated with national and international professional bodies. The comprehensive list of collaborations ( as on 19th November 2109) are attached herewith.

#### ❖ **Admission of Students**

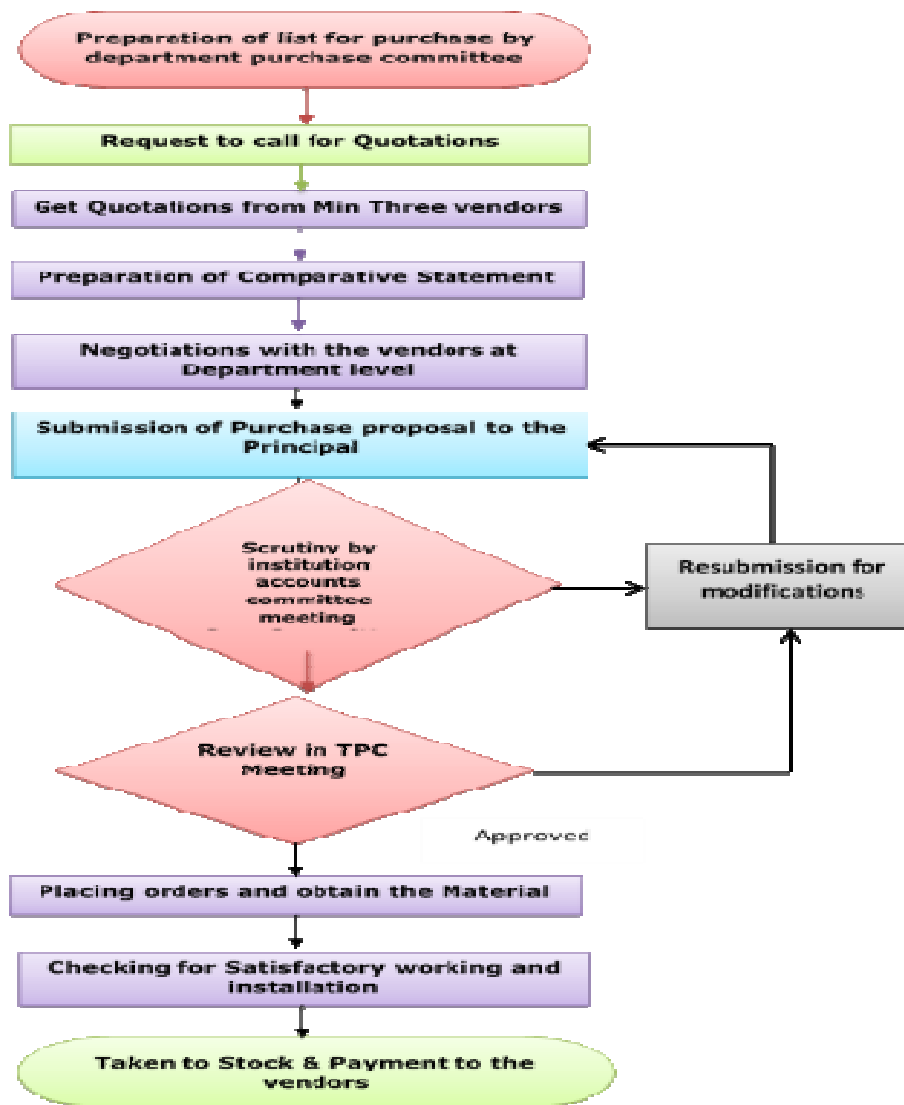
The basic qualification for eligibility for Admission to BE (Bachelor of Engineering) Programs is two year Pre-University or 12<sup>th</sup> Standard or equivalent examination. The candidate should have taken Physics and Mathematics as compulsory courses along with Chemistry/Biotechnology/Computer Science/Biology/Electronics as optional courses and English as one of the languages of study in the Qualifying Examination. Further, the candidate should have passed the Qualifying Examination with an aggregate minimum of 45% marks in the optional courses in the Qualifying Examination (40% of marks in case of Sc, ST & OBC category candidates) for eligibility. The marks obtained by the candidate in Biotechnology/Computer Science/Biology/electronics in the Qualifying Examination will be considered in place of Chemistry, only for the purpose of determination of eligibility and not for the purpose of determination of rank, in respect of Engineering program.

Admission process happens through Common Entrance Test (CET) conducted by the local State Government, COMEDK (Consortium of Private Unaided Institutions) and through Management Quota (MQ) in 45:30:25 % quota

**6.2.2 : Implementation of e-governance in areas of operations:****Institutional Governance - Planning, monitoring and record keeping practices:**

**Planning:** Every financial year budget proposals will be submitted by the individual departments with the consent with department purchase committee members. Finance section consolidates all the departmental budget proposals along with centralized expenses including, previous year's actual budget allocation and its utilization. Combined HoDs meeting will be called to finalize / modify the estimated budget. The same will be discussed and finalized in Finance Committee Meeting.

**Monitoring:** The Recurring & Non-Recurring expenses allocated as per the budget will be monitored to purchase as follows:



The purchase proposals as per the said procedure will be forwarded to Accounts section. Accounts section will verify whether the purchase are as per the institution's purchase procedure and checks the budget availability along with the utilization as on that date. The proposals will be forwarded to Management office-RSST to get Hon. Secretary's approval and sanction of the expenditure. As soon we receive the approval from RSST the files will be passed for payment.



**Record Keeping:**

As soon the payments made to vendors and others, the original invoice copy, sanction paper and payment passing sheet will be retained in Accounts section for audit purpose, remaining details with file will be forwarded to concerned department for their reference.

However, SAP ERP package is implemented wef 01.08.2018 in Finance & Controlling (FICO), Human Cost Management (HCM) & Materials Management (MM).

**MM: (Materials Management):**

All the purchases will be routed through MM as follows:

1. Purchase Requisition (PR) will be initiated to get approval for the purchase. Based on the approval limit, the requisition will get approved through system.
2. As soon the PR get approved, the Request for Quotation (RFQ) will be placed for concerned approval. Based on the approval limit, the RFQ will get approved through system.
3. The quotation will be called, consolidated and the prices for the same will be maintained in MM. Based on the final negotiated price, comparative statement will be extracted. The vendor will be selected based on the least quote, technical specification etc.
4. Purchase Order (PO) will be placed for approval from the concerned authorities. Soon after the approval of PO, the will be send to concerned vendor. As soon we receive / obtain the materials / service, a transaction called MIGO for goods and Service entry sheet for services will be entered and the file will be handed over to Accounts section for payment.

**Administration:****HCM: (Human Capital Management)**

The details of appointments, relieving, Increments, promotion, encashment, Leave without pay etc allowances or deductions related to staff will be received from Establishment section and will be keyed in HCM module. Other remunerations and statutory deductions will be entered / checked and the salary will be processed and a run number will be given to Accounts section to verify the mapping of General ledgers with amount. As soon the Accounts section authenticate the correctness, necessary postings will be made.

**Finance & Accounts:****FICO (Finance & Controlling):**

All the financial transaction whether it's a receipt or expenditure will be entered in FICO. Non PO items will be directly taken into FICO and purchases through PO will be processed by the T Code MIRO with interface of MM. HCM interface entries will be processed for payment of salary and other statutory deductions.

All the asset creation and asset capitalization will be done through FICO.

Cheque printing, invoice posting, Bank Reconciliation Statements etc will be processed through FI entries.

Record Keeping: All the documents related to above said processes can be digitally saved in SAP\_DMS (Document Management System). At present, the documents are maintained both the ways in DMS & hard copies.

**Student Admission and Support**

- Student Life Cycle Module of SAP is being implemented in a phased manner along with In house module supporting the same for Admission process

**Examination :** Presently In-house module developed by our own Faculties is in usage and process of Student Life Cycle Management as part of ERP package of SAP is being implemented in phases. We are hopeful to have full fledged ERP package of SLCM functioning by AY 2021.

Other software for administration are:

Software	Vendor / Developer
Digital Campus-Online Fee payment module & Reports through PayUmoney gateway	Kotak Mahindra Bank Ltd in association with Digi Campus
Examination	In-house
Libsoft (Library Management System)	Environ Software Pvt Ltd
Admission module	In-house
Saral Accounts & GST (GST compliance)	Relyon Softech Ltd
Student Life Cycle Management (SLCM)	Under process by Yash Technologies

### 6.3 Faculty Empowerment Strategies

#### 6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Nov 2018	H.P Vageesh	GeoMeAST – International congress and exhibition Sustainable civil infrastructures: Structural Integrity	GeoMeast - Cairo - Egypt	Rs.81,919/-
Feb 2019	Dr. B.C Udayashankar	One day seminar on High strength concrete	ICI Bengaluru	Rs.2950/-
2019	Ms.Shaila H Koppad	108 <sup>th</sup> Indian Science Congress Association		Rs.7,500/-
2019	Ms.Shaila H Koppad	7 <sup>th</sup> International Conference on Business analytics and Intelligence		Rs.17,800/-
2019	Dr.C.Manjunath	World Nanotechnology Conference held during 15-17 <sup>th</sup> April,2019 in DUBAI (UAE)		Rs.22,200/-
2018	Mrs.T.Kavitha	7 <sup>th</sup> International and 45 <sup>th</sup> National Fluid Mechanics and Fluid Power Conference (FMFP 2018)	IIT Mumbai, Mumbai	Rs.7,000/-
2018	Mrs.Sailaja Y	National Conference on Mathematica Analysis and Computing 2018 (NCMAC-2018)	SSN College of Engg, Kalavakkam, Chennai	Rs.4,500/-
2018	Dr.Prakash R	Training program on Multivariate Data Analysis	Indian Statistical Institute, Bengaluru	Rs.17,400/-
2019	Dr.Nandeesh Kumar C & Dr.Savithri Sashidhar	Workshop on “Design thinking”	Dept. of IEM & University of Applied Science, Wurzburg-Schweinfurt, Germany at RVCE, Bengaluru	Internal

**6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year**

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
1	Agenda for Intensive Internship Program for Faculty and students on “Next Generation of Communication System Design using NI SDR USRP Platform”	Nil	27 <sup>th</sup> – 31 <sup>st</sup> May 2019	20	3
2	Workshop on “Fundamentals of Long Term Evolution (LTE)-4G” under IEEE Communication Society, RVCE student chapter	Nil	26 <sup>th</sup> -30 <sup>th</sup> September 2018	27	3
3	Workshop on "Labview and NI-USRP"	Nil	1 <sup>st</sup> – 2 <sup>nd</sup> March 2018	16	3
4	Five days workshop on "Recent trends in LTE”	Nil	29 <sup>th</sup> Jan to 2 <sup>nd</sup> Feb 2018	53	3
5	NI myRIO workshop (E&IE)		3-7 <sup>th</sup> Jan,2019	6	
6	One Week Faculty Development Program on “Emerging Technologies in Short Range Wireless Communication		2 <sup>nd</sup> July to 6 <sup>th</sup> July 2018	8	
7		Three day workshop on Training course on Electrical switch-gear and their applications	12-14 <sup>th</sup> June 2019		1
8	Two days training program on “Photonic Design and Simulation Techniques using OPTISYSTEM”		21 <sup>st</sup> to 22 <sup>nd</sup> Feb. 2019	10	
9		Two days workshop on “ Virtual Instrumentation using NI LabVIEW	15-16 <sup>th</sup> Oct 2019		3
10	Five Days Workshop on Fundamentals of Long Term Evolution (LTE)-4G		26 <sup>th</sup> -30 <sup>th</sup> September 2018	2	

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
11		Two days workshop on EXCEL with Excel	4-5 <sup>th</sup> July 2019		2
12	Training Program on NI AWR Software		20 <sup>th</sup> to 25 <sup>th</sup> May 2019	8	
13		SAP training for Administrative & technical faculty	17 <sup>th</sup> October 2019		3
14	One day workshop on “RF Instruments & Measurements”		8 <sup>th</sup> November 2019	5	
15		2 days SAP training on “Student Life cycle Management	2 <sup>nd</sup> to 3 <sup>rd</sup> July 2019		5
16	Vector Network Analyser Measurements		8 <sup>th</sup> Nov. 2019	5	
17	Over view of 5G Technologies		8 <sup>th</sup> Nov. 2019	5	
18	Spectrum Analyser Basics		8 <sup>th</sup> Nov. 2019	5	
19	Technical talk on “Wireless and cellular communication”		8 <sup>th</sup> Nov. 2018	2	
20	Technical talk on “Electromagnetic and Wireless		17 <sup>th</sup> May 2019	22	
21	Technical talk on “3D Depth Map and its Applications in Computer Vision”		17 <sup>th</sup> May 2019	22	
22	Technical talk on “Detectors used for Attitude Sensors”		18 <sup>th</sup> May 2019	22	
23	Talk on Internet of Everything		15 <sup>th</sup> May 2019	30	
24	Talk on Research Avenues in Machine Learning and Artificial Intelligence		27 <sup>th</sup> May 2019	28	
25		Workshop on Excel with Excel	4 <sup>th</sup> to 5 <sup>th</sup> July 2019		33
26		2 <sup>nd</sup> LIS Academy National Conference on Innovations in Libraries	6 <sup>th</sup> to 8 <sup>th</sup> June, 2019		01
27	Short term training programme (STTP) on Creating & sustaining an ethical work place culture		19 <sup>th</sup> to 24 <sup>th</sup> Aug, 2019	45	

<b>6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year</b>		
<b>Title of the professional development programme</b>	<b>Number of teachers who attended</b>	<b>Date and Duration (from – to)</b>
QIP on Recent Trends in Condition Monitoring of Power Apparatus- Adaptability to Smart Grid	01	18 <sup>th</sup> - 23 <sup>rd</sup> Nov. 2019
IEEE PES Young Research Meet	13	14 <sup>th</sup> Sep. 2019
Workshop on e-mobility jointly organized by IEEE-PES Bangalore chapter and RVCE	08	14 <sup>th</sup> Aug. 2019
Six day faculty development program on “Advanced Functional Materials”	02	5 <sup>th</sup> - 10 <sup>th</sup> Aug. 2019
Two Weeks workshop on Hardware Realizable Neural Networks-Design Challenges and Research Opportunities	01	15 <sup>th</sup> - 27 <sup>th</sup> July , 2019
National workshop on “Resilient operation of electronically-coupled systems in electrical power grid” TEQIP-III SPONSORED	03	8 <sup>th</sup> - 12 <sup>th</sup> July 2019
Embedded Safety and Security Summit 2019. Conducted By LDRE	01	23 <sup>rd</sup> July 2019
Three days workshop on “Electrical switchgear and application”	03	12 <sup>th</sup> – 14 <sup>th</sup> June 2019
Short term course on FPGA based controller design for Power Electronic Converters	01	10 <sup>th</sup> – 14 <sup>th</sup> June 2019
FDP on Machine learning and deep learning	02	17 <sup>th</sup> – 21 <sup>st</sup> June 2019
Workshop on IOT and Embedded systems	01	3 <sup>rd</sup> – 8 <sup>th</sup> June 2019
FDP on Emerging convergence power techniques and challenges for renewable energy and electric vehicle applications	03	24 <sup>th</sup> - 28 <sup>th</sup> June 2019
Design and thinking workshop using AI and machine learning in health care	01	16 <sup>th</sup> May 2019
5 Days workshop on Design and Analysis of Electrical machines using Altair Flux Software	04	20 <sup>th</sup> - 24 <sup>th</sup> March 2019
One day Nanovolts to Gigahertz Seminar	02	7 <sup>th</sup> March 2019
2 days industry training program. On cable insulation.	02	5 <sup>th</sup> - 6 <sup>th</sup> Feb 2019
2 day seminar on Electric Vehicle technology	03	27 <sup>th</sup> - 28 <sup>th</sup> Feb 2019
1 day faculty training programme on IOT by CTS	01	22 <sup>nd</sup> Feb. 2019
Five day workshop on “ Hands on sessions on MyRio-Labview”	01	3 <sup>rd</sup> - 8 <sup>th</sup> Jan. 2019
One day workshop on “ High voltage insulator manufacturing technique and testing”	02	30 <sup>th</sup> Jan. 2019
Smart Sensors and Systems: Internet of Things	01	22 <sup>nd</sup> - 27 <sup>th</sup> Oct,2018
47 <sup>th</sup> ISTE National Annual Convention, Kottayam, Kerala	01	27 <sup>th</sup> - 29 <sup>th</sup> Jan,2018
New Model for PG Courses	02	6 <sup>th</sup> - 8 <sup>th</sup> Aug,2018
AICTE-QIP: Short Term course on Deep Learning Theory and Practice	02	12 <sup>th</sup> - 17 <sup>th</sup> Dec,2018
Hands on Worksoop on GIT and GitHub Basics	1	14 <sup>th</sup> July 2018
Workshop on Web Technology & its Applications	1	16 <sup>th</sup> – 18 <sup>th</sup> July 2018
FDP on Tech – Bridge in the area of Data Science	3	26 <sup>th</sup> – 28 <sup>th</sup> July 2018
Workshop on IOT	2	7 <sup>th</sup> Sept. 2018
FDP on Microsoft Azure & Cognitive Services	3	28 <sup>th</sup> – 29 <sup>th</sup> Sept. 2018
Workshop on Cyber privacy and Data Security	2	31 <sup>st</sup> Jan. 2019

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Workshop on Software testing using LDRA Tool	2	7 <sup>th</sup> – 8 <sup>th</sup> Feb 2019
Workshop on Qualnet	2	18 <sup>th</sup> – 19 <sup>th</sup> Feb 2019
Workshop on Cyber security Engineering in Academics	8	23 <sup>rd</sup> March 2019
Workshop on "A Course On Probability And Random Processes"	1	3 <sup>rd</sup> – 5 <sup>th</sup> June 2019
Faculty Development Program by IBM India	2	17 <sup>th</sup> -21 <sup>st</sup> June 2019
Workshop on Cyber Security	2	22 <sup>nd</sup> June 2019
workshop on Excel with Excel	3	4 <sup>th</sup> to 5 <sup>th</sup> July 2019
Workshop on "MATLAB Essentials"	2	8 <sup>th</sup> -9 <sup>th</sup> July 2019
FDP on "Data Science and Deep Learning"	2	15 <sup>th</sup> - 26 <sup>th</sup> July 2019

#### 6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):-

Teaching – 03		Non-teaching – 01	
Permanent – 02, Temporary – 01	Fulltime – 03	Permanent – 01	Fulltime – 01

#### 6.3.5 Welfare schemes for-

##### Teaching, on-Teaching & Students

- Age of Superannuation – 65 years (faculty) & 60 years (Support staff)
- Sponsoring for upgradation of academic and technical qualifications with full salary
- OOD facilities for Training / Examinations
- Financial assistance for attending Conferences / Paper Publications, including International visits
- Revenue Sharing on consultancy works (60:40)
- Transportation facility at concessional rate
- Sabbaticals to premier institutions and industries
- EL encashment and Gratuity, Maternity Leave
- Uniform & Allowances for Support Staff
- Fee concession for staff's wards and admission for staff wards in other RV institutions
- Staff Quarters facility for class 4 employees
- Medical Insurance, ESI, EDLI & GSLI
- Incentives for adoption of family planning as per norms
- Accident Insurance & In-house Medical facility

#### 6.4 Financial Management and Resource Mobilization

**Sustainability** is an important factor of good Governance and it is important that all the stake holders act responsibly to achieve this. Strategic plan – identifying a clear development path for the institution, through its long-term academic, research and business plans is the responsibility of GB. Annual budgets and its review is taken up in GB, however for approvals, implementation and assessment of these, there are four committees setup in the institution namely:

- Finance Committee
- Technical Purchase Committee
- Accounts Committee

- (i) **The Finance Committee (FC)** is responsible of looking into the sustainability aspects and approves institutional and department budgets depending on the availability of funds, internal IRG and anticipated external funding. The Finance committee is composed of:
- Principal as the Chairman
  - Three members from the Management (Hon. Treasurer, Hon. Secretary and Hon. Joint Secretary)
  - An auditor
  - Two senior Professors
  - The Member Secretary is a Professor/Administrative staff who has knowledge of accounts
- (ii) **Technical Purchase Committee (TPC)**, goes into the processes followed in getting quotes, Justification of purchases exceeding Rs.2.00 lacs. It is responsible for transparency in purchases and approves to place orders. Technical Purchase Committee consists of:
- Hon. Treasurer of RSST, is the Chairman
  - Three members from the management (Hon. Secretary and Hon. Joint Secretary, Registrar RSST)
  - Two Senior Professors from Finance Committee
  - All the Head of the Departments
  - Principal is the member secretary
- (iii) **Accounts Committee (AC)**, handholds the departments to finalize procurement files, before they are forwarded to TPC. It also looks in to common purchases, Justification, alternative solutions etc. Accounts Committee consists of:
- Principal
  - Two Senior Professors
  - Registrar
  - Concerned HoDs are invited members of this committee.
  - Accounts superintendent as the member secretary
- Accountability and financial sustainability is planned through the Departmental budgeting procedures committee along with the above three committees.
  - Sustainability is incomplete without “Sustainability and Respect for Gender”, keeping this mind equal opportunity is given to female employees and students in various positions and activities.
  - One of the important factors is to have a good governance is sustainability in leadership through rotation of Head of the Departments and Deans. This is to see that there is involvement in decision making.

The GB, Academic council and Research Advisory committee has to help in attaining financial sustainability through Research & Consultancy

#### **6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each) -**

Yes, RVCE conducts internal and external financial audits regularly. The details are as given below:

##### **1. Internal Audit:**

RSST has appointed internal Auditor Mr.S.Ashok, Chartered Accountant, M/s.Ashok Shivaji Rao & Co, No.83, Sultanpet Main Road, Bangalore- 560 002, for R.V. College of Engineering. Monthly audits are carried out by internal auditor's team. They verify the books of accounts and monthly internal Auditors report will be given to RSST along with Receipts & Payments a/c and Bank Reconciliation statements of all the bank accounts of the institution.

The grants & scholarship received by the college are also audited by internal auditors for their utilization.

**2. External Audit:**

RSST has appointed External Auditor M/s.Shanthappa & Co , Chartered Accountants, Unit No.201, II floor, house of lords, 15 & 16, St Marks Road, Bengaluru – 560 001, who performs an audit of the financial statements of the college.

During audit, they verify all the financial records & Internal Auditor's report.

The financial records of the College are audited after the end of each financial year and are certified by the external Auditors with Audit report and financial statements.

**6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)****Funded and consultancy assignments from 01.04.18 to 31.03.2019**

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
					Receipt	GST@18 %	Total
1	HoD CSE	CSE	BEL	Conduction of Training on Machine Learning for 40 students	359,970.00	72,000.00	431,970.00
2	Deepamala N	CSE	System Consultant Information India Pvt Ltd	Research Project: "Implementing Natural language processing (NLP) to generate structure query language	150,000.00	27,000.00	177,000.00
3	T.Raghavendra	Civil	Ripple Media	Vetting Of Structural Designs & Drawings for the project "Skywalks for Bengaluru city by BBMP" (Part payment-1)	90,000.00	18,000.00	108,000.00
4	T.Raghavendra	Civil	K Bhupal Engineers & Contractors Pvt Ltd	/ Vetting of the structural designs and drawings	270,000.00	48,600.00	318,600.00
5	T.Raghavendra	Civil	CRG Infratech Private Limited	Vetting Of Structural Designs & Drawings for providing water supply scheme to Kuntoji and 17 other villages of Muddebihal taluk, vijayapur Dist	330,000.00	59,400.00	389,400.00
6	Dr.Raviendra R	Civil	BCV Developers	Testing of precast wall panel joints	15,000.00	2,700.00	17,700.00
7	Dr.Neeta Shivakumar	BT	Dsign Biosys	Micropropagation of commercially important plants	50,848.00	9,152.00	60,000.00



Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
8	HoD CSE	CSE	Ziroh Labs	Survey work on information rights management technology	10,000.00	1,800.00	11,800.00
9	HoD IEM	IEM	NTTF-Nettur Technical Training Foundation	Conduction of training program for NTTF PGDQM students for 18 numbers of students (@ Rs.2000+GST each)	32,400.00	6,480.00	38,880.00
10	Dr.Dinsh MN	EEE	KAVIKA	Conduction of Aptitude test to applicants on 10.03.18 & physical test to group D applicants	122,490.00	24,498.00	146,988.00
11	T.Raghavendra	Civil	Megha Engineering & Infrastructures Pvt Ltd	Vetting of structures designs & drawings for additional structures for Arasikere project	13,500.00	2,700.00	16,200.00
12	Dr. Badarinarath K	CSE	Microlab Instruments	Consultancy services related to Windows CE 6.0 application development with multitasking for Coagulation analyzer	127,118.00	22,882.00	150,000.00
13	Radhakrishna	Civil	Department of Youth Empowerment and sports,	Third Party inspection at Ramanagara swimming pool, Bengaluru	45,000.00	8,100.00	53,100.00
14	Dr.Shanmukha N	Mech	Samson Automation technologies	Consultancy services for Design & Development of an Automated System to pick and place gift toys from bowl to the conveyor	138,000.00	24,840.00	162,840.00
15	HOD ISE	ISE	Directi Internet Solutions Pvt Ltd.	Conduction of Data structure & Algorithm exam	47,200.00	8,496.00	55,696.00
16	HOD ISE	ISE	Directi Internet Solutions Pvt Ltd.	Conduction of Data structure & Algorithm exam	23,300.00	4,194.00	27,494.00

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
17	Anand Kumar B.G	Civil	G Sons Power	Design and detailing of RCC and steel structure for rerction of 2500A and 4000A bus duct	33,000.00	5,940.00	38,940.00
18	Varuna . M Assist Prof	Civil	Nesa Consultancy & Engg., Services	Strengthening and widening of NH45C from two lane to four from Sethiyathopu (66.000) to Cholapuram (112.00) under EPC in State of Tamil Nadu	29,750.00	5,355.00	35,105.00
19	Dr. krishna ppa H K	Civil	Iora Technologies	Software Framework Development for Textile weave, colour pattern designing and simulation	50,000.00	9,000.00	59,000.00
20	Dr Shanmukha Nagaraj	Mech	Cisco Systems (India) P Ltd	Research Project on Analysis of multiple CDN using available resources	37,000.00		37,000.00
21	Dr Shanmukha Nagaraj	Mech	Te Connectivity India Pvt. Ltd.,	CSR scheme of 2018-19 1)Triboelectric nano generator (TENG) 2) Design and Development of 6 degrees of freedom collborative Robot	423,729.00	76,272.00	500,001.00
22	Dr, G.R Rajkumar Assist Prof	Mech	Topaz Tools	Design and development of Torque multiplier for removing lug nut	172,500.00	31,050.00	203,550.00
23	K Badari Nath	CSE	Microlab Instruments	1) Android app for Bilurubin testing instrument 2)Application enchancement to Biomedical analyzer app	127,119.00	22,882.00	150,001.00
24	HOD	CSE	ABB Global Industries and services	Consultancy chrage for thr project Rs485/ modbus driver wrapper and simple analysis widgets	75,000.00	13,500.00	88,500.00
25	HoD CSE	CSE	Arivu Health Care	Consultancy Charges towards Development of hospital Management system	100,000.00	18,000.00	118,000.00

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
26	RVCE	RVCE	San Prints Private Limited	Conduction of Comed-K exam on 13.05.2018	52,810.00	9,506.00	62,316.00
27	HoD IEM	IEM	Nettur Technical Training Foundatio	Conduction of training program for NTTTF PGDQM student for 15 number of student	48,000.00	8,640.00	56,640.00
28	Dr.Shobha G	CSE	Citrix R&D India Pvt Ltd	Research Project on “User defined protocol support and DPDK integration with Ostinato” as per the Milestones mentioned in MoU dated 22/02/2017	100,000.00	18,000.00	118,000.00
29	Dr.G.R. Raj Kumar	Mech	TOPAZ TOOLS	Project for Fabrication of shear off pin and cap assembly	84,746.00	15,255.00	100,001.00
30	HOD	Civil	Highway & Hydro Technologies Pvt Lt	Bump Integrator charge and calibration	48,602.00	8,749.00	57,351.00
31	Dr.Raghavendra . T Assist prof	Civil	Sign Post India Pvt Ltd	Vetting of structural design and drawings for the project " Foot over bridge for Bengaluru city by BBMP"	50,000.00	9,000.00	59,000.00
32	Dr.Raghavendra . T Assist prof	Civil	IPE Global Limited	Conduction of BBD studies	161,500.00	29,070.00	190,570.00
33	Dr.Raghavendra . T Assist prof	Civil	IPE Global Limited	Conduction of BBD studies and conduction of necessary laboratory of urban roads Tumakuru , Karnataka	105,000.00	18,900.00	123,900.00
34	Dr.Raghavendra . T Assist prof	Civil	Megha Engineering & Infrastructures	Concrete mix design pertaining to the project "Multi village water supply scheme (DBOT) to Kodihalli and orther 298 Village in Kanakapura Taluk Ramanagar Dist	50,200.00	9,036.00	59,236.00

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
35	Dr Shanmukha Nagaraj	Meh	TE Connectivity India Pvt. Ltd.,	CSR Project on design & development of 6 degree of freedom collaborative Robot	423,729.00	76,272.00	500,001.00
36	Dr.Sushruth & Mech staff	Mech & ECE	Bharat Electronics Limited	Orientarion programme on " Electronics for Non-Electronics engineers during 09-11th oct 2018 & Mechanical for Non-mechanical Engineers during 29th -30th oct 2018	96,597.00	17,388.00	113,985.00
37	Dr.Raghavendra . T Assist prof	Civil	Megha Engineering & Infrastructures	Vetting of structural designs & drawings for additional structures for Banavara & Gandasi blocks of Arsikere project	30,000.00	5,400.00	35,400.00
38	Dr.Raghavendra . T Assist prof	Civil	Megha Engineering & Infrastructures	Vetting of structural design and drawings of roof truss for additional structures for Kolar Project	10,000.00	1,800.00	11,800.00
39	Shobha G	CSE	IBM India Pvt Ltd	Water leakage detection system	794,068.00	142,933.00	937,001.00
40	Shobha G	CSE	IBM India Pvt Ltd	Smart app meter for Energy and water management aided with water and air Quality monitoring	716,102.00	128,899.00	845,001.00
41	Dr, Minal Moharir Assist Prof	CSE	Citrix R&D India Pvt Ltd	Exploring Citrix netscaler support protocols using scapy tools	200,000.00	36,000.00	236,000.00
42	Vageesh H.P Assist prof	CSE	Mindwork Consulting	Testing of hollow concrete blocks and prisms	4,050.00	729.00	4,779.00
43	Anand Kumar B.G Assist prof	Civil	IPE Global Limited	Conduction of BBD studies & conduction of necessary laboratory of urban roads Tumakuru	114,000.00	20,520.00	134,520.00
44	Anand Kumar B.G Assist prof	Civil	IPE Global Limited	Soil investifaction by hand auger and rotary drilling method and KSRTC bus depot and bus stand Tumkur	600,850.00	108,153.00	709,003.00

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
45	Dr.Shobha G	CSE	CISCO Systems (India) Private Limit	Research Project on Analysis of multiple CDN using available resources	37,000.00	6,660.00	43,660.00
46	Dr.Shobha G	CSE	CISCO Systems (India) Private Limit	Research Project on Analysis of multiple CDN using available resources	37,000.00	6,660.00	43,660.00
47	HoD, IEM	IEM	Edutech NTTF India (P) Ltd	Training program for NTTF PDGDM student for 15 numbers for student	48,000.00	8,640.00	56,640.00
48	Dr.Raghavendra . T Assist prof	Civil	Megha Engineering & Infrastructures	Vetting of structural design and drawings for the project "Multi village water supply scheme to Adichunchanagiri and orther 128 village in Nagamangala taluk , Mandya District	450,000.00	81,000.00	531,000.00
49	HOD ISE	ISE	Directi Internet Solutions Pvt Ltd.	Conduction of Data structure & Algorithm exam 26.08.2018	11,400.00	2,052.00	13,452.00
50	HOD ISE	ISE	Directi Internet Solutions Pvt Ltd.	Conduction of Data structure & Algorithm exam conducted by codechef during Oct 2018	13,000.00	2,340.00	15,340.00
51	Dr.Ranganath D	Placement	Manya Education	Institutional Over Head Charges for facilitating GRE Classes to students	59,304.00	10,675.00	69,979.00
52	Dr.Raghavendra . T Assist prof	Civil	Megha Engineering & Infrastructures	Vetting of Structural Design & Drawings for Chikkaballapur Project	350,000.00	63,000.00	413,000.00
53	Dr.Raghavendra . T Assist prof	Civil	Tahal Consulting Engineers Ltd	Institution Consultancy Project proof checking of civil works drawing	25,000.00	4,500.00	29,500.00
54	Vageesh H.P Assist prof	Civil	Sri Lakshmi Venkateshwarra Engineeri	Institution consultancy project on conduct physical test on reinforcing steel	7,254.00	1,306.00	8,560.00

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
55	Vageesh H.P Assist prof	Civil	Sri Lakshmi Venkatesh wara Engineeri	Physical test on reinforcing steel Fe-550 for " Extension of canteen building " ISE Bangalore centre	7,000.00	1,260.00	8,260.00
56	Vageesh H.P Assist prof	Civil	Sri Lakshmi Venkatesh wara Engineeri	Institution consultancy project on conduct physical test on reinforcing steel	7,254.00	1,306.00	8,560.00
57	K Badari Nath	CSE	Indian Institute of Technology Madr	Institution consultancy project for the software framework to Bitmap	50,000.00	9,000.00	59,000.00
58	K Badari Nath	CSE	Indian Institute of Technology Madr	Software framework for Bitmap design to mat designs suitable for Electronic Jacquard fitted to mat weaving loom	50,000.00	9,000.00	59,000.00
59	K Badari Nath	CSE	Indian Institute of Technology Madr	Software framework to Bitmap	50,000.00	9,000.00	59,000.00
60	HoD CSE	CSE	Principal, Siddaganga Institute	All in one Board's services charge	3,000.00	540.00	3,540.00
61	Sunil S Asst Prof	Civil	Bureau Veritas (India) Pvt Ltd	Conduction of BBD study at Chitradurga	36,000.00	6,480.00	42,480.00
62	Sunil S Asst Prof	Civil	Bureau Veritas (India) Pvt Ltd	Conduction of BBD study at Bengaluru	55,500.00	9,990.00	65,490.00
63	Anand Kumar B G Assist Prof	Civil	A C Srinivasa Raju	Mobilization of equipment and personnel with all other necessary accessories for carrying out investigations at site and demobilization after completion work	80,000.00	14,400.00	94,400.00
64	Shashank B. S	Civil	Dayanand Sagar College Students	Geopolymer Brick Making by Dayanadsagar college students	7,500.00	1,350.00	8,850.00

Sl No	Coordinator	Department	Funding Agency	Consultancy work	Receipt during 2018-19		
65	Dr.Shobha G	CSE	System Consultant Information	Research on implementing natural language	104,237.00	18,763.00	123,000.00
66	Anjaneyappa, Assoc Prof	Civil	Chief Engineer,	Conduction of training A)Modern survey techniques 17-19th Sep 2018	218,135.00	39,265.00	257,400.00
67	Anjaneyappa, Assoc Prof	Civil	Chief Engineer,	Conduction of training B)Asset management for highways 26-28 th sep 2018	218,135.00	39,265.00	257,400.00
68	Anjaneyappa, Assoc Prof	Civil	Chief Engineer,	Conduction of training "Inspection repair and rehabilitation of pavements for 30 participants for during 25-27th July 2018	225,000.00	32,400.00	257,400.00
69	Civil	Civil		Testing charges	144,820.00	20,016.90	164,837.00
<b>Total</b>					<b>8,857,717.00</b>	<b>1,585,959.90</b>	<b>10,443,677.00</b>

**6.4.2 Total corpus fund generated**

**10,443,677.00 (Details enclosed)** - One Crore four lakhs forty three thousand six hundred and seventy seven only

**6.5 Internal Quality Assurance System****6.5.1 Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Academic Institutions SIT Tumkur, KSIT – Bangalore, RNSIT, NIE Mysore, MCE Hassan, Dr.AIT Bengaluru, Jain University	Yes	Professors from all departments
Administrative	Yes	Academic Institutions SIT Tumkur, NIE Mysore, MCE Hassan, Dr.AIT Bengaluru, Bangalore University	Yes	Professors from all departments

**6.5.2 Activities and support from the Parent – Teacher Association (at least three)**

- Every semester, Parents Teacher meeting is arranged to discuss about the development in the Institution
- Discuss the activities & performance of their wards and issues of respective tests
- Carry out corrective actions as per the schedule and parents are also contacted during the emergency circumstances or medical issues of students

<b>6.5.3 Development programmes for support staff (at least three)</b>				
Training Programmes arranged for Support staff in the campus from External Agencies:				
<ul style="list-style-type: none"> <li>➤ “Sensitizing workers about safety and health measures to be adopted at workplace”</li> <li>➤ Communication &amp; Behavioral skills</li> <li>➤ Attitudinal behavioural skills and changing mindset</li> <li>➤ Building Leadership qualities</li> <li>➤ Fire Safety Measures</li> </ul>				
<b>6.5.4 Post Accreditation initiative(s) (mention at least three)</b>				
<b>6.5.5</b>				
a. Submission of Data for AISHE portal : (Yes /No) YES b. Participation in NIRF : (Yes /No) YES c. ISO Certification : (Yes /No) NO- IN PROCESS d. NBA or any other quality audit : (Yes)				
<b>6.5.6 Number of Quality Initiatives undertaken during the year</b>				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration	No of participants
2018-19	Training on use of ICT tools	21-05-2019	1 day	15
2018-19	Hands on training for Differential Scanning Calorimeter	25-05-2019	1 day	5
2018-19	SAP Training on Student Life Cycle Management	2-7-2019 to 3-07-2019	2 days	5
	SAP Training for Administrative & Technical Faculty	17-10-2019	1 day	3
2019	Cluster level Training Program on “Effective Utilisation of VTU Consortium e-Resources (Amt sanctioned from VTU for Rs.25,000/-	21/8/2019	1 day	98
2019	Open Seminar	24/8/2019	1 day	Participants
2019	One day workshop for Research Scholars	19/7/2019	1 day	Participants
2019	Computational Science In Engineering	15 <sup>th</sup> to 20 <sup>th</sup> July 2019	6 days	33
2019	ICT Enabled Physics Experiments and training on thin film solar cells	22 <sup>nd</sup> to 27 <sup>th</sup> Oct,2018	6 days	32



## Criterion VII – Institutional Values and Best Practices

<b>7.1 - Institutional Values and Social Responsibilities _</b>			
<b>7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)</b>			
Title of the programme	Period (from-to)	Participants	
		Female	Male
International Yoga Day	Jun.2018	9	16
Clay Ganesha Seed Ball Paper Bag Making	Aug. 2018	60	90
Kerala and Kodagu Flood Relief	Aug. 2018	8	14
IGC TSC 2018	Aug. 2018	1	3
NSS Day Celebration	Sept. 2018	45	55
Essay Writing Competition	Sept. 2018	16	24
Orphanage Visit	Sept.2018	6	9
Surgical Strike Day Celebrations	Sept. 2018	60	90
All India Thal Sainik Camp 2018	Sept. 2018	1	1
Basic Mountaineering Camp 2018	Sept.2018	0	1
Swacch Bharat Cleanliness awareness Drive	Oct. 2018	10	25
Rashtriya Ekta Divas	Oct. 2018	22	38
Combined Annual Training Camp	Oct.2018	6	10
Youth Exchange Program	Oct.2018	1	1
Minor Trek	Oct.2018	15	45
IGC RDC 2019	Nov. 2018	0	3
Overseas Deployment	Nov.2018	0	1
Youth Day celebration( Badge making)	Jan. 2019	12	8
Youth Day celebration (Talk)	Jan. 2019	20	30
Youth Day celebration (Human chain formation)	Jan. 2019	50	80
Republic Day Camp 2019	Jan.2019	0	1
National Integration Camp	Jan.2019	1	2
Utsarga Marathon	Feb. 2019	28	40
DDG Commendation	Feb.2019	0	1
CM Commendation	Feb.2019	1	2
Talk on Opportunities in the Indian Air Force	Feb.2019	21	24
Blood Donation Camp	Mar. 2019	15	25
Voting Awareness Campaign & EVM VVPAT demonstration	Mar.2019	3	3
Voting Awareness Campaign and New Voter registrations	Mar. 2019	13	7
Blood Donation Camp	Mar.2019	16	33
Army Attachment Camp	Apr.2019	0	3
Marathon.Run for Unity	Apr.2019	0	12
Shooting Camp	May.2019	1	2
Combined Annual Training Camp	Jul.2019	6	9
South Zone Shooting Camp	Jul.2019	1	0
Basic Leadership Camp	Jul.2019	1	2
Graduation Day	Jul.2019	13	24
Surgical Strike	Sep.2019	19	41

**7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:**

Percentage of power requirement of the College met by the renewable energy sources

**40% power generated by Solar Power**

**7.1.3 Differently abled (Divyangjan) friendliness**

Items Facilities	Yes / No	No. of Beneficiaries
Physical facilities	Yes	32
Provision for lift	Yes	32
Ramp/ Rails	Yes	32
Braille Software/facilities	No	-
Rest Rooms	Yes	32
Scribes for examination	Yes	
Special skill development for differently abled students	-	-
Any other similar facility(Health Centre, First aid & wheel chair facilities)	-	20

**7.1.4 Inclusion and Situatedness**

**Enlist most important initiatives taken to address locational advantages and disadvantages during the year**

Year	No. of initiatives to address locational advantages & disadvantages	No. of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	No. of participating students and staff
2018-19	1	1	1-3-2019 (7hours)	Blood donation Camp	Scarcity reduced	1109
	1		1-3-2019 (6.5hours)	EVM demo	Voter education	655
	1	1	6-10-2018 (2hours)	Swachh Bharat	Cleanliness drive	35
	1		18-8-2018 to 21-8-2018 (3days)	Flood relief	Flood relief	100
	1	1	16-9-2018 (4.5 hours)	Visit to orphanage	Mentoring	15
	1	1	10-2-2019 (3 hours)	Utsarga Marathon	Run for differently abled	411

**7.1.5 Human Values and Professional Ethics**

1. Human Chain On Account Of National Youth Day Celebrations- 14-1-2019, 135 volunteers
2. National Youth Day- 23-1-2019, 50 Volunteers
3. Rashtriya Ekta Divas- 31- 1- 2019, 150 staff and 650 students

Code of conduct (handbooks) for various stakeholders		
Title	Date of Publication	Follow up (maximum 100 words each)
Hand book of General Information	First Publication: AY 2007-08 Recent Publication 2017-18-19	Hand book is printed and distributed to all the students at the beginning of each academic year. This discipline handbook was developed to assist students, parents and staff in understanding discipline policies currently in place and the consequences of not adhering to those policies. It contains a chapter on Discipline to be followed and information about General Discipline, Anti-Ragging awareness, Dress Code to be followed, Security & Support Services
Service Rule Book issued to all Staff members of the Institution – with details of all the service conditions of employees, Discipline Issues, Leave related, termination clauses, maintenance of confidentiality etc.		
<b>7.1.6 Activities conducted for promotion of universal Values and Ethics</b>		
An Essay Writing Competition To Commemorate Gandhi Jayanthi, 28-9-2018, 40 Volunteers. NSS RVCE in association with the CENTRE FOR GANDHIAN PRINCIPLES AND VALUE BASED EDUCATION had organised an essay writing competition on 28 <sup>th</sup> of September 2018 to commemorate Gandhi Jayanthi. The competition was based on the title “FROM SPINNING WHEEL TO SATELLITE”. This topic was specifically chosen to lay emphasis on how India has fared in developments in all walks of life since the struggles for independence. After India broke the shackles of British rule, it has come a long way to stand strong on the global front. The competition was open to all the students and also the staff of RVCE.		
Activity	Duration (from-----to----- --)	Number of participants
Six days Short Term Training Programme on ‘creating and sustaining an ethical work place Culture’	19 <sup>th</sup> - 24 <sup>th</sup> August 2019	44
<b>7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)</b>		
<ul style="list-style-type: none"> <li>• Rain water harvesting structures and utilization in the campus</li> <li>• Solar PV panels/meeting power requirements using renewable energy sources-Roof Top Panel installations – 500 KW</li> <li>• Solid/Liquid and E-Waste management practices adopted</li> <li>• Sewage Treatment Plant (STP) 200 KLD capacity – water being utilised for flushing &amp; gardening purposes</li> <li>• Plastic Free campus drive – ban on single use plastic</li> <li>• Pedestrian Friendly campus</li> <li>• Green Landscaping with trees and plants – introduced Garden waste Composting</li> <li>• Green initiative campaign-sapling instead of a bouquet given to guest attending various functions in our campus</li> <li>• Conducting of Clay Ganesha – Seed Ball –Paper Bag Making activities.</li> </ul>		

## 7.2 Best Practices

**Good Governance Practices:** The Governing Body of the institution consists of academicians, policy makers, industrialists, philanthropists and nominated student members. This helps in balanced policy making, utilization of funds and student as well as staff welfare measures. The long term plans have been laid down in the strategic plan document in consultation with Department committees, joint workshops of senior professors for strategy formulation. The Institutional Monitoring Planning and Policy Implementation Committee (IMPPIACT) consists of HoDs, Deans & Associate Deans, who are responsible for continuous improvement through identifying needs, bringing in discipline, defining academic & research activities, future plans etc. Various Deans viz. Academic, Student Affairs, R&D and PG Studies are responsible for implementation, outcomes and improvements in their respective areas of responsibility at the institutional level. Feedback systems are in place to know about the gap that exists in the current academic and other practices, to identify opportunities for continual improvements in the institutional processes and practices and the monitoring is through IQAC. SAP implementation for smooth administration.

**Teaching Learning Process:** The curriculum of every program has been developed not only to meet the Program Outcomes (POs) but also emphasis is on inclusiveness through interdisciplinary courses and Experiential Learning. Courses on Environment, Engineering Biology, Constitution of India, Entrepreneurship, Intellectual Property Rights, Sustainable Materials and several interdisciplinary electives are included in the curriculum. The programs are designed with requisite number of foundation courses, advanced courses–SWEBOOK, MOOCS, NPTEL, QEEE, industry-based electives and laboratories to facilitate enhancement of competence of the students in all the relevant domains and render them employable, prepare them for higher studies, entrepreneurship and public service. The foundation courses are designed as per the requirement of industries; e.g. programming skills, design thinking, communication skills and strong fundamentals in domain area are a part of the curriculum. Students are allowed to take up interdisciplinary projects in final year with students of other programs. These initiatives help the graduates of RVCE to attain / achieve the skills required for an engineering graduate. PG students are provided internship opportunities in industries, which is also a path to get better employment opportunities.

## 7.3 Institutional Distinctiveness

**Interdisciplinary Research:** Faculty and students have keenness to carryout research in various areas. The institution has constituted interdisciplinary research groups to take up research work in the identified areas of Centre of Excellence viz. (a) Centre for Macroelectronics (Large Area & Flexible Microelectronics), (b) Center for Multifunctional Materials, (c) Center for Clean and Hybrid Power, (d) Center for Green Infrastructure and Management and (e) Centre for Intelligent Transport Systems, through workshops on cutting edge technologies. The institution established Centre for Internet of Things, Centre for Smart Antenna Systems, Centre for Computational Genomics and Incubation Centre. Efforts are being made to create necessary infrastructure and testing facilities for carrying out research in thrust areas. Faculty and students are provided with financial and other support to participate in national and International Conferences/ competitions. The institution has developed networking with industries and institutes of higher learning including IITs, NITs and IISc. The institution is also providing opportunities for faculty and students to take up innovative projects, handholding junior faculty in the preparation of project proposals, providing financial support for patents, publications, & pursuing PhD / integrated PhD. About 30% of the UG and PG projects are research oriented. So far, 44 patents have been filed, out of which, 37 are already published in the official journal of the Indian Patent Office. In addition to this, funded projects from various agencies have helped in sustainability as number of instruments and equipments have been procured to enhance research facilities leading to innovation. Currently, the institution is executing over 30 funded projects & consultancy works worth Rs. 30 crores funded by various Govt. and other agencies in the last three years.

#### **8. Future Plans of action for next academic year (500 words)**

There are four areas of focus in the future plan of development for the institution in the next academic year. The first dimension is on Outcome Based Education which will cover Enhancing Student Centric Learning through ICT and Pedagogy, Developing Sustainable Solutions for local problems through projects, Networking & International Collaboration. The second areas of focus is on Research and Innovation which will cover Setting up Incubation Centres, Increasing No. of Patents & Commercialization, Continuous submission of proposals to various funding agencies, Continuous improvement in Quality of Research & publications, Enhancing IRG through CoE, Industrial Consultancy. On the infrastructure front the activities involve developing 1500 seating capacity Auditorium, Twin Towers (4 floors each), Design Thinking Lab, Student Spaces, Video / Teleconference Hall, Seminar Halls (ECE / Chemical) and in the Community Service the institution will undertake Village adoption and transferring technology (Health / Energy) and Enhancing Social Responsibility through Community Services.