



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

|   |                                 |
|---|---------------------------------|
| 1. Name of the Institution                    | RAJALAKSHMI ENGINEERING COLLEGE |
| Name of the head of the Institution           | Dr.S.N. Murugesan               |
| Designation                                   | Principal                       |
| Does the Institution function from own campus | Yes                             |
| Phone no/Alternate Phone no.                  | 04437181111                     |
| Mobile no.                                    | 9791135753                      |
| Registered Email                              | admin@rajalakshmi.edu.in        |
| Alternate Email                               | iqac@rajalakshmi.edu.in         |
| Address                                       | Rajalakshmi Nagar, Thandalam    |
| City/Town                                     | Chennai                         |
| State/UT                                      | Tamil Nadu                      |
| Pincode                                       | 602105                          |

#### 2. Institutional Status

|  |             |
|--|-------------|
| Autonomous Status (Provide date of Conformant of | 08-Jun-2017 |
|--|-------------|

|  |                                     |
|--|-------------------------------------|
| Autonomous Status)                     |                                     |
| Type of Institution                    | Co-education                        |
| Location                               | Rural                               |
| Financial Status                       | private                             |
| Name of the IQAC co-ordinator/Director | Dr.V. Prasannakumari                |
| Phone no/Alternate Phone no.           | 04437181080                         |
| Mobile no.                             | 9884179632                          |
| Registered Email                       | iqac@rajalakshmi.edu.in             |
| Alternate Email                        | prasannakumari.v@rajalakshmi.edu.in |

### 3. Website Address

|  |   |
|--|---|
| Web-link of the AQAR: (Previous Academic Year)                         | <a href="http://www.rajalakshmi.org/downloads/TNCOGN13234-RajalakshmiEngineeringCollege-AQAR-17-18.pdf">http://www.rajalakshmi.org/downloads/TNCOGN13234-RajalakshmiEngineeringCollege-AQAR-17-18.pdf</a> |
| 4. Whether Academic Calendar prepared during the year                  | Yes   |
| if yes, whether it is uploaded in the institutional website: Weblink : | <a href="http://www.rajalakshmi.org/downloads/AcademicCalendar2018-19-Even.pdf">http://www.rajalakshmi.org/downloads/AcademicCalendar2018-19-Even.pdf</a>   |

### 5. Accrediation Details

| Cycle | Grade | CGPA  | Year of Accrediation | Validity    |             |
|-------|-------|-------|----------------------|-------------|-------------|
|       |       |       |                      | Period From | Period To   |
| 1     | B     | 70.90 | 2007                 | 31-Mar-2007 | 30-Mar-2012 |
| 2     | B     | 2.71  | 2013                 | 25-Oct-2013 | 24-Oct-2018 |
| 3     | A     | 3.14  | 2016                 | 25-May-2016 | 24-May-2021 |

|                                  |             |
|----------------------------------|-------------|
| 6. Date of Establishment of IQAC | 02-May-2007 |
|----------------------------------|-------------|

## 7. Internal Quality Assurance System

### Quality initiatives by IQAC during the year for promoting quality culture

| Item /Title of the quality initiative by IQAC                      | Date & Duration  | Number of participants/ beneficiaries |
|--|------------------|---------------------------------------|
| Effectiveness of Teachers  | 05-Feb-2019<br>1 | 60                                    |
| FDP on Teaching Pedagogy and Outcomes                              | 12-Jul-2019<br>4 | 45                                    |
| Seminar on OBE - Metrics   | 18-Sep-2018<br>1 | 17                                    |
| Classroom Communication Training                                   | 22-Mar-2019<br>4 | 60                                    |
| Tracking and assistance to Accreditation report submissions to NBA | 14-Feb-2019<br>1 | 60                                    |
| Academic & Administrative Audit                                    | 05-Feb-2019<br>2 | 500                                   |

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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 |
|--------------------------------|--------|----------------|-----------------------------|--------|
| No Special status Granted      | NA     | NIL            | 2019<br>1                   | 1      |

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of

4

|   |  |  |
|---|--|--|
| IQAC meetings held during the year :  |  |  |
| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website  | Yes  |  |
| Upload the minutes of meeting and action taken report   | <a href="#">View File</a>  |  |
| 11. Whether IQAC received funding from any of the funding agency to support its activities during the year?   | No   |  |
| 12. Significant contributions made by IQAC during the current year(maximum five bullets)  |  |  |
| <p>1.Environmental Audit to assess and recommend environmental sustainability and improvement 2.Energy Audit to measure and recommend energy conservation strategies for the college<br/> 3.Nominations to various ranking systems to assess our stand among peers 4. Various Faculty development Programmes on OBE and Class Communication</p> |  |  |
| No Files Uploaded !!!   |  |  |
| 13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year   |  |  |
| Plan of Action  | Achivements/Outcomes   |  |
| Encouraging more students and faculty to get involved in product development and projects leading to patenting  | Seven patents have been filed and a number of projects are developed as products |  |
| Skill Enrichment in programming by training to improve employment   | Placement numbers have increased and better feedback from recruiters             |  |
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|   |   |
|---|---|
| 14. Whether AQAR was placed before statutory body ?   | No  |
| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | Yes   |
| Date of Visit   | 27-Feb-2018   |
| 16. Whether institutional data submitted to AISHE:  | Yes   |
| Year of Submission  | 2019  |
| Date of Submission  | 23-Jan-2019   |
| 17. Does the Institution have Management Information System ?   | Yes   |
| If yes, give a brief description and a list of modules currently operational (maximum 500 words)                | A complete management information system is being indigenously developed and used since a couple of years. This software facilitates entry of all master data and data pertaining to everyday activities. Dynamic reports can be downloaded from this with filters and groupings. Following are the modules available in it . Administration Assessment Student information Placement Information Transport Purchase Research, Consultancy Publications Comprehensive dashboard according to the roles and responsibilities |

## Part B

### CRITERION I - CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

##### 1.1.1 - Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code | Programme Specialization          | Date |
|-------------------|----------------|-----------------------------------|------|
| BE                | All Courses    | Aeronautical Engg                 | 0    |
| BE                | All Courses    | Automobile Engg                   | 0    |
| BE                | All Courses    | Bio Medical Engg                  | 0    |
| BE                | All Courses    | Computer Science Engg             | 0    |
| BE                | All Courses    | Electrical & Electronics Engg     | 0    |
| BE                | All Courses    | Electronics & Communications Engg | 0    |
| BE                | All Courses    | Mechanical Engg                   | 0    |
| BE                | All Courses    | Civil Engg                        | 0    |
| BE                | All Courses    | Mechatronics                      | 0    |
| BTech             | All Courses    | Bio Technology                    | 0    |
| BTech             | All Courses    | Information Technology            | 0    |
| BTech             | All Courses    | Chemical Engg                     | 0    |
| ME                | All Courses    | Computer Science Engineering      | 0    |
| ME                | All Courses    | Communication System              | 0    |
| ME                | All Courses    | Embedded System                   | 0    |
| ME                | All Courses    | Engineering Design                | 0    |
| ME                | All Courses    | Medical Electronics               | 0    |
| Mtech             | All Courses    | Bio-Technology                    | 0    |
| MBA               | All Courses    | Master of Business Administration | 0    |

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1.1.2 - Programmes/ courses focussed on employability/ entrepreneurship/ skill development during Academic year

| Programme with Code | Programme Specialization      | Date of Introduction | Course with Code  |
|---------------------|-------------------------------|----------------------|---|
| BE                  | Aeronautical Engineering      | 01/08/2018           | Entrepreneurship Development                                    |
| BE                  | Aeronautical Engineering      | 01/06/2018           | AE17E89 - Introduction to Product Development (Elective course) |
| BTech               | Biotechnology                 | 29/08/2018           | BT17301 Enzyme Technology and BioTransformations                |
| BTech               | Biotechnology                 | 29/08/2018           | BT17504 Bioinformatics  |
| BTech               | Biotechnology                 | 29/08/2018           | BT17601 Biopharmaceutical Technology                            |
| BE                  | Civil Engineering             | 29/12/2018           | Hands on Training on BIM  |
| BE                  | Civil Engineering             | 29/12/2018           | CE17211 - Computer Aided Building Drawing Laboratory            |
| BE                  | Electrical & Electronics Engg | 21/01/2019           | CDCE Automation   |

|    |                        |            |  |
|----|------------------------|------------|--|
| BE | Mechanical Engineering | 19/12/2018 | HS17461 - Advanced Reading and Writing |
|----|------------------------|------------|--|

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## 1.2 - Academic Flexibility

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

| Programme/Course | Programme Specialization | Dates of Intro |
|------------------|--------------------------|----------------|
| ME               | Avionics                 | 01/06/2        |
| BTech            | Food Technology          | 01/06/2        |

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

| Name of programmes adopting CBCS | Programme Specialization          | Date of implementation of Course System |
|----------------------------------|-----------------------------------|---|
| BE                               | Mechanical Engg                   | 01/06/2018                              |
| BE                               | Mechatronics                      | 01/06/2018                              |
| BTech                            | Chemical Engg                     | 01/06/2018                              |
| BTech                            | Bio Technology                    | 01/06/2018                              |
| BTech                            | Information Technology            | 01/06/2018                              |
| ME                               | Computer Science Engineering      | 01/06/2018                              |
| ME                               | Communication System              | 01/06/2018                              |
| ME                               | Embedded System                   | 01/06/2018                              |
| ME                               | Engineering Design                | 01/06/2018                              |
| ME                               | Medical Electronics               | 01/06/2018                              |
| Mtech                            | Bio-Technology                    | 01/06/2018                              |
| MBA                              | Business Administration           | 01/06/2018                              |
| BE                               | Aeronautical Engg                 | 01/06/2018                              |
| BE                               | Automobile Engg                   | 01/06/2018                              |
| BE                               | Bio Medical Engg                  | 01/06/2018                              |
| BE                               | Civil Engg                        | 01/06/2018                              |
| BE                               | Computer Science & Engg           | 01/06/2018                              |
| BE                               | Electrical & Electronics Engg     | 01/06/2018                              |
| BE                               | Electronics & Communications Engg | 01/06/2018                              |

## 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 |
|---------------------|----------------------|-----------------------------|
| KAIZEN ROBOTICS     | 27/07/2018           | 250                         |

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### 1.3.2 - Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization                 | No. of students enrolled for / Internships |
|-------------------------|--|--|
| BE                      | Aeronautical Engineering                 | 39   |
| BE                      | Automobile Engineering                   | 97   |
| BE                      | Biomedical Engineering                   | 248  |
| BTech                   | Bio-Technology                           | 129  |
| BE                      | Chemical Engineering                     | 22   |
| BE                      | Civil Engineering                        | 38   |
| BE                      | Computer Science Engineering             | 85   |
| BE                      | Electronics & Communications Engineering | 211  |
| BE                      | Electrical & Electronics Engineering     | 120  |
| BTech                   | Information Technology                   | 11   |
| BE                      | Mechatronics                             | 1  |
| BE                      | Mechanical Engineering                   | 176  |

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### 1.4 - Feedback System

#### 1.4.1 - Whether structured feedback received from all the stakeholders.

|           |     |
|-----------|-----|
| Students  | Yes |
| Teachers  | Yes |
| Employers | Yes |
| Alumni    | Yes |
| Parents   | Yes |

#### 1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the (maximum 500 words)

##### Feedback Obtained

The feedback collected through various meetings and counselling sessions studied thoroughly and categorised into groups pertaining to academic facilities and administration. The set of feedback is discussed with department concerned and appropriate remedial actions are suggested. compliance report is collected after stipulated time. It is ensured maintain so that the same grievance or feedback does not get repeated question feedback is collected exclusively for the courses taught in current semester. Questions cover all aspects of Teaching Learning process. Based on the summary of this score, faculty are counselled for the areas to be improved. They are recommended for training programmes as appropriate online feedback is obtained from each and every student where he can give his comments and suggestions for the overall improvement of the ambience.



other issues. Feedback from parents are collected during parentteach meetings which are regularly held after every unit test and also when they visit the institution for other matters. Appropriate measures are taken to address genuine complaints and suggestions are considered for improvement. Industry and Employer feedback are collected through students who are placed in various organisations and also during their visit to our campus for placements. These feedback are given utmost importance since they bridge the industry expectations from the students for their career. Appropriate training programmes are organised for the students and mentoring sessions are provided.

## CRITERION II - TEACHING- LEARNING AND EVALUATION

### 2.1 - Student Enrolment and Profile

#### 2.1.1 - Demand Ratio during the year

| Name of the Programme | Programme Specialization          | Number of seats available | Number of Application received |
|-----------------------|-----------------------------------|---------------------------|--------------------------------|
| BE                    | Aeronautical Engg                 | 60                        | 82                             |
| BE                    | Automobile Engg                   | 60                        | 62                             |
| BE                    | Bio Medical Engg                  | 120                       | 136                            |
| BTech                 | Bio Technology                    | 180                       | 197                            |
| BE                    | Electrical & Electronics Engg     | 180                       | 160                            |
| BE                    | Electronics & Communications Engg | 240                       | 258                            |
| BE                    | Mechanical Engg                   | 240                       | 231                            |
| BE                    | Civil Engg                        | 120                       | 89                             |
| BE                    | Mechatronics                      | 60                        | 67                             |
| BTech                 | Information Technology            | 120                       | 134                            |
| BTech                 | Chemical Engg                     | 60                        | 67                             |
| ME                    | Computer Science Engineering      | 18                        | 3                              |
| BE                    | Computer Science Engineering      | 300                       | 341                            |
| BTech                 | Food Technology                   | 60                        | 54                             |
| ME                    | Communication System              | 18                        | 6                              |
| ME                    | Embedded System                   | 18                        | 6                              |
| ME                    | Engineering Design                | 18                        | 2                              |
| ME                    | Medical Electronics               | 18                        | 3                              |
| Mtech                 | Bio Technology                    | 18                        | 21                             |
| MBA                   | Business Administration           | 120                       | 117                            |
| ME                    | Avionics                          | 18                        | 3                              |

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### 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 fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses |  |
|------|---|---|---|---|--|
| 2018 | 1626  | 155   | 324   | 11  |  |

### 2.3 - Teaching - Learning Process

#### 2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management System learning resources etc. (current year data)

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Number of smart classrooms | E-teaching |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|------------|
| 468                        | 468   | 48                                | 22                               | 1                          |            |

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

**STUDENTS COUNSELING : ONE TO ONE COUNSELLING** In the department level, each faculty member is assigned a maximum of 20 students when they join the first year of the programme, for or counselling for monitoring and recording their progress in academic, as well as in other activities of interest, till the end of the course. They are motivated to continuously improve their performance. Attendance of the students is also closely monitored by the counsellors and any other specific issues of students, including certain of their personal requirements are also looked into for suitable remedial action.

**GENERAL COUNSELLING** A general counselling is also organised, at the middle of each semester. All students of all departments are called for one to one counselling by a faculty member from another department. Again the students progress is discussed and any specific help needed in the teaching learning process is expressed by the students is noted and remedial action is taken. Thus the students are enabled to complete with the academic program without any difficulty, perform well and produce good results. Issues pertaining to common amenities are also collected in this general counselling, which is collated and remedial actions are initiated.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : No. of students |
|--|-----------------------------|--------------------------|
| 6553   | 468                         | 1                        |

### 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 teachers |
|-----------------------------|-------------------------|------------------|--|-----------------|
| 84                          | 84                      | Nil              | 84                                       |                 |

#### 2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships National, International level from Government, recognised bodies during the year )

| Year of Award | Name of full time teachers receiving awards from state | Designation | Name of the award, fellowship, received from or recognized bodies |
|---------------|--|-------------|---|
|               |  |             |   |

|      | level, national level, international level |                     |   |
|------|--|---------------------|---|
| 2018 | Dr. Yogesh Kumar Sinha                     | Associate Professor | Reviewer, Thermal Science   |
| 2018 | Dr. Suresh Chandra Khandai                 | Associate Professor | Reviewer, Thermal Science   |
| 2018 | Dr. N. Muthusamy                           | Professor           | Reviewer, Int. J of Turbo and Jet   |
| 2018 | Mr. G. Ezhilmaran                          | Assistant Professor | Reviewer, Int. J of Turbo and Jet   |
| 2018 | Mr. P. K. Dinesh Kumar                     | Assistant Professor | Referee, Materials Research Ex  |
| 2019 | Dr. K. Bhaskar                             | Professor           | Teaching Awards in Engineering Staffordshire University, UK Ed Matters  |
| 2018 | Dr. Jayasree.R                             | Professor           | Special recognition outstanding award AIMST University, Kedah, M  |
| 2018 | Dr.K.Nagarajan                             | Associate Professor | Best Paper Award, SSN College of E  |
| 2018 | Dr.K.Devaki                                | Professor           | Best Paper Award in the Interna Conference on Innovations and Disc Science, Engineering Technology he College of Technology                       |
| 2018 | Dr.U.Karthikeyan                           | Associate Professor | Bronze Partner Faculty under Insp Campus Connect Faculty Partnership INFOSYS  |
| 2018 | Dr.U.Karthikeyan                           | Associate Professor | Awarded as Active Participation XPlore Orientation Program by   |
| 2018 | Ms. D. Sorna Shanthi                       | Associate Professor | Gold Partner Faculty under Insp. Campus Connect Faculty Partnership INFOSYS   |
| 2018 | Mrs. Priya Vijay                           | Associate Professor | Gold Partner Faculty under Insp. Campus Connect Faculty Partnership INFOSYS   |
| 2018 | Mrs. Priya Vijay                           | Associate Professor | KPIT Innovation Challenge award Ministry of Information and Broadc Smart India Hackathon 2018, Recei for Rs 3 lakhs from ISRO to comple Docurator |
| 2019 | Dr. M. Palanivelan                         | Professor           | Reviewer of Indonesian Journal of Engineering and Informatics (IJEI indexed)  |
| 2019 | Dr. M. Palanivelan                         | Professor           | Appreciation award in appreciat fostering an ecosystem bridging g industry and Academia from Texas I  |
| 2019 | Mr. V. S. Selvakumar                       | Associate Professor | Appreciation award in appreciat fostering an ecosystem bridging g industry and Academia from Texas I  |
| 2019 | Dr.K.Senthil                               | Associate           | Appreciation award in appreciat   |

|      |                          |                        |  |
|------|--------------------------|------------------------|--|
|      | Kumar                    | Professor              | fostering an ecosystem bridging g<br>industry and Academia from Texas I:   |
| 2019 | Ms. M. Anitha<br>Mary    | Assistant<br>Professor | Appreciation award in appreciat.<br>fostering an ecosystem bridging g<br>industry and Academia from Texas I:   |
| 2019 | Dr.K.Premkumar           | Associate<br>Professor | "Best engineering College Young<br>Award" from society of Engineering<br>Enrichment  |
| 2019 | Dr.K.Premkumar           | Associate<br>Professor | IEEE Member  |
| 2019 | Dr.A.Nazar Ali           | Associate<br>Professor | Senior IEEE member   |
| 2018 | Dr.A.Nazar Ali           | Associate<br>Professor | "Best young scientist award"<br>International Journal for Research<br>Literal Access.  |
| 2018 | Dr.K.Premkumar           | Associate<br>Professor | "Recognized for the outstanding co<br>in reviewing" from Applied Soft C<br>journal (Elsevier).   |
| 2018 | Dr.S.Poonkuzhali         | Professor              | Life Time Education Achievement,<br>and International Compendi:  |
| 2018 | Ms.L.Priya               | Associate<br>Professor | Best Women Academician , Bang  |
| 2019 | D.Keerthana              | Assistant<br>Professor | Award of Appreciation from Texas I:  |
| 2018 | Mr. B.<br>Bhuvaneshwaran | Assistant<br>Professor | Top Performing Mentor  |
| 2018 | Mr. B.<br>Bhuvaneshwaran | Assistant<br>Professor | Gold Level Partner Infosys (Campus   |
| 2018 | Mr. B.<br>Bhuvaneshwaran | Assistant<br>Professor | Cloud Champion Award (AWS  |
| 2018 | Mr. B.<br>Bhuvaneshwaran | Assistant<br>Professor | Best Educator Award (Salesforce) A<br>Configuration Engineer (ACE) Exam<br>Version   |
| 2018 | Mr. B.<br>Bhuvaneshwaran | Assistant<br>Professor | Best Coordinator Award New India<br>Championship 2018 The Largest Le   |
| 2018 | Dr.S.Gnanavel            | Assistant<br>Professor | Infosys campus connect bronze  |
| 2018 | Mr.R.Vijaya Kumar        | Assistant<br>Professor | Gold Partner Faculty under Insp<br>Campus Connect Faculty Partnership<br>INFOSYS   |
| 2019 | Ms.P.Revathy             | Associate<br>Professor | Best paper award for the title G<br>users through Pairwise Sequence A<br>and Graph Traversal based on W<br>Navigation Behavior at St.Peters<br>of Higher Education and Rese. |

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## 2.5 - Evaluation Process and Reforms

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

| Programme Name | Programme Code | Semester/ year       | Last date of the last semester-end/ year-end examination | Date of declaration of semester-end/ year-end examination |
|----------------|----------------|----------------------|--|---|
| BE             | All Branches   | 2nd 3rd and 4th year | 24/11/2018   | 26/12/20  |
| BE             | All Branches   | 1st year             | 31/12/2018   | 29/01/20  |
| ME             | All Branches   | 2nd year             | 15/11/2018   | 26/12/20  |
| ME             | All Branches   | 1st year             | 02/01/2019   | 29/01/20  |

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

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination |
|---|--|
| 1   | 6553   |

## 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 weblink)

<http://www.rajalakshmi.org/dept-aero-outcomes.php>

2.6.2 - Pass percentage of students

| Programme Code | Programme Name | Programme Specialization               | Number of students appeared in the final year examination | Number of students passed in final year examination |
|----------------|----------------|--|---|---|
| Nil            | BE             | Aeronautical Engineering               | 43  | 42  |
| Nil            | BE             | Automobile Engineering                 | 58  | 56  |
| Nil            | BE             | Biomedical Engineering                 | 112   | 97  |
| Nil            | BE             | Civil Engineering                      | 113   | 85  |
| Nil            | BE             | Computer Science and Engineering       | 278   | 242   |
| Nil            | BE             | Electronics and Communication          | 227   | 175   |
| Nil            | BE             | Electrical and Electronics Engineering | 165   | 137   |

|      |       |                            |     |     |
|------|-------|----------------------------|-----|-----|
| Nill | BE    | Mechatronics Engineering   | 60  | 51  |
| Nill | BE    | Mechanical Engineering     | 261 | 240 |
| Nill | BTech | Information Technology     | 117 | 82  |
| Nill | Mtech | Bio Technology             | 11  | 10  |
| Nill | ME    | Computer Science           | 2   | 2   |
| Nill | ME    | Communication Systems      | 3   | 3   |
| Nill | ME    | Power Electronics & Drives | 1   | 1   |
| Nill | ME    | Embedded Systems           | 4   | 4   |
| Nill | ME    | Engineering Design         | 3   | 2   |
| Nill | ME    | Medical Electronics        | 2   | 2   |
| Nill | MBA   | Business Administration    | 107 | 98  |

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## 2.7 - Student Satisfaction Survey

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

<http://www.rajalakshmi.org/downloads/Feedback-2and3-2019.pdf>

## 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                                      |                          |                         |    |
|--|--------------------------|-------------------------|----|
| Name of the teacher getting seed money   | The amount of seed money | Year of receiving grant | Du |
| Mr. P. K. Dinesh Kumar,<br>Dr.V.Gayathri | 380000                   | 2019                    |    |

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3.1.2 - Teachers awarded National/International fellowship for advanced studies/ research durir

| Type     | Name of the teacher awarded the fellowship | Name of the award | Date of award | Aw |
|----------|--|-------------------|---------------|----|
| National | No Award of fellowship in 18-19            | NIL               | 30/12/2019    | Aj |

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### 3.2 - Resource Mobilization for Research

#### 3.2.1 - Research funds sanctioned and received from various agencies, industry and other organi

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received year |
|-----------------------|----------|----------------------------|------------------------|----------------------|
| Major Projects        | 1095     | DST-TSDP                   | 124.56                 | 15..                 |
| Major Projects        | 1095     | DST-DTP-DDP                | 80.27                  | 55..                 |

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

0.15

### 3.3 - Innovation Ecosystem

#### 3.3.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academic practices during the year

| Title of workshop/seminar   | Name of the Dept.                      |
|---|--|
| Tamil Nadu Global Investors Meet 2019                               | Aerospace Automobile                   |
| Entrepreneurship Development  | Management Studies                     |
| Workshop on Cognitive Skills, Design Thinking and Critical Thinking | REC - Institution's Innovation Council |
| Seminar on Intellectual Property Rights                             | REC - Institution's Innovation Council |

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#### 3.3.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the

| Title of the innovation  | Name of Awardee                             | Awarding Agency    | Date of award |
|--|---|--------------------|---------------|
| Investigation of Spray Characteristics of a Double V Setup with Jet Interactions | Guruvishali D and Keerthana S IV Year, Aero | TCS                | 28/02/2019    |
| Versatile Drone (Working Prototype)  | T. R. Praveen Kumar Vinoth S. IIIYear Aero  | Dept. of Aero, REC | 25/02/2019    |
| Voice Control Module (Working Prototype)   | Aravind D Raja Gokul V M.E. Avionics        | Dept. of Aero, REC | 25/02/2019    |
| Satellite Drag Ionisation Thruster (Working Prototype)                           | Padmanathan M III Year Aero                 | Dept. of Aero, REC | 25/02/2019    |

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

| Incubation Center | Name | Sponsored By | Name of the Start-up         | Nature of Start-up | Compl |
|-------------------|------|--------------|------------------------------|--------------------|-------|
| NIL               | NIL  | NIL          | Sentinel Radiology Solutions | Software           | 14,   |

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### 3.4 - Research Publications and Awards

#### 3.4.1 - Ph. Ds awarded during the year

| Name of the Department                    | Number of PhD's |
|---|-----------------|
| Biotechnology                             | 4               |
| Electronics and Communication Engineering | 2               |
| Electrical and Electronics Engineering    | 3               |
| Information Technology                    | 1               |
| Mechanical Engineering                    | 2               |

#### 3.4.2 - Research Publications in the Journals notified on UGC website during the year

| Type          | Department                                | Number of Publication | Average I (it |
|---------------|---|-----------------------|---------------|
| International | Humanities Sciences                       | 23                    | 0             |
| International | Aeronautical Engg                         | 4                     |               |
| International | Automobile Engg                           | 9                     | 0             |
| International | BioMedical Engg                           | 4                     | 2             |
| International | Bio Tech                                  | 11                    | 2             |
| International | Computer Science Engg                     | 11                    | 2             |
| National      | Chemical Engg                             | 1                     | 0             |
| International | Chemical Engg                             | 4                     |               |
| International | Civil Engg                                | 3                     | 0             |
| National      | Food Technology                           | 1                     |               |
| International | Food Technology                           | 1                     |               |
| International | Electronics and Communication Engineering | 22                    |               |
| International | Electrical and Electronics Engineering    | 12                    | 0             |
| International | Information Technology                    | 14                    |               |
| International | Mechatronics                              | 1                     | 0             |
| International | Mechanical Engineering                    | 15                    |               |

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#### 3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/Internal Conference Proceedings per Teacher during the year

| Department               | Number of Publicat |
|--------------------------|--------------------|
| Aeronautical Engineering | 1                  |



|                         |    |
|-------------------------|----|
| Automobile Engineering  | 9  |
| Biomedical              | 5  |
| Biotechnology           | 9  |
| Chemical engineering    | 1  |
| Civil Engineering       | 32 |
| Computer Science Engg   | 62 |
| ECE                     | 52 |
| EEE                     | 29 |
| IT                      | 4  |
| Mechatronics            | 15 |
| Mechanical Engg         | 32 |
| Business Administration | 21 |

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#### 3.4.4 - Patents published/awarded during the year

| Patent Details  | Patent status | Patent Number |
|---|---------------|---------------|
| SMART STICK   | Filed         | 2019410164    |
| Grinding Waste from Automobile Industry as a Potential Construction Material                            | Filed         | 2018410357    |
| Electric Energy Generation from Waste Wind Velocity of High Rating Air Conditioners                     | Filed         | 2019410073    |
| System and Method for Identifying Body Fluid Changes in Patients Using Weight and BioImpedance Measures | Filed         | 2019410073    |
| A SelfCharging Hybrid Scooter Board   | Filed         | 2019410188    |
| A Liquid Composition to Detect Microorganisms in a Sample   | Filed         | 2019410203    |
| A Novel Electrospun Nanofibrous Scaffold To Treat Skin Burns  | Filed         | 2019410258    |
| Vacuum operated continuum manipulator   | Filed         | 2019410273    |

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#### 3.4.5 - Bibliometrics of the publications during the last academic year based on average citation Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper                  | Name of Author                 | Title of journal            | Year of publication | Citation Index | Institution affiliation mentioned the publicatio |
|-------------------------------------|--------------------------------|-----------------------------|---------------------|----------------|--|
| Posture Based Health Monitoring and | G.Anitha,<br>S.Baghavathipriya | Cluster Computing- Springer | 2018                | 1              | Professo Rajalaks                                |

Unusual  
Behaviour  
Recognition  
System for  
Elderly using  
Dynamic  
Bayesian  
Network

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

| Title of the Paper   | Name of Author   | Title of journal   | Year of publication | h-index | Number of citations excluding self citation |
|--|------------------|--------------------|---------------------|---------|---|
| Experimental Investigation of Mechanical and Viscoelastic Properties of Acacia Nilotica Filler Blended Polymer Composite | Venkateshwaran N | POLYMER COMPOSITES | 2018                | 13      | 320   |

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3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty           | International | National | St |
|-----------------------------|---------------|----------|----|
| Attended/Seminars/Workshops | 10            | 315      | 2  |
| Presented papers            | 158           | 80       |    |
| Resource persons            | 1             | 19       | 5  |

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3.5 - Consultancy

3.5.1 - Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project         | Consulting/Sponsoring Agency | Revenue (amount) |
|-------------------------------------|-------------------------------------|------------------------------|------------------|
| Computer Science and Engg           | Docurator - Document Secure Tracker | ISRO                         | 10               |

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

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generate (amount in rupees) |
|-------------------------------------|------------------------|---------------------------|-------------------------------------|
|-------------------------------------|------------------------|---------------------------|-------------------------------------|

|            |   |                       |       |
|------------|---|-----------------------|-------|
| EEE        | MATLAB and SIMULINK with Real Time Applications | LoyolaICAM            | 10000 |
| IT         | Training on Tele Radiology PACS                 | Sentinel Radilogists  | 95000 |
| Mechanical | Value Optimization Program                      | M/S PHA India Pvt Ltd | 1     |

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### 3.6 - Extension Activities

3.6.1 - Number of extension and outreach programmes conducted in collaboration with industry, 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 participated in such activities | Number of students participated in such activities |
|-------------------------|--|--|--|
| First Aid Training      | NSS Alert NGO                                | 1  | 300  |

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3.6.2 - Awards and recognition received for extension activities from Government and other recognised bodies during the year

| Name of the activity | Award/Recognition       | Awarding Bodies                     | Number of students benefited |
|----------------------|-------------------------|-------------------------------------|------------------------------|
| Younite              | Best Presentation Award | Rotaract Club @ Group Rotaract Meet |                              |

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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  | Number of teachers participated in such activities | Number of students benefited |
|--------------------|---|---|--|------------------------------|
| Swachh Bharat      | NSS   | Uzhavarapani in Kanchipuram Pavala Vanna Perumal temple tank on 19.8.18 | 1  |                              |
| Swachh Bharat      | NSS   | Temple cleaning activity on 21/09/2018 at Maharal village Cheyyar,      | 1  |                              |
| First Aid          | NSS   | First Aid training by ALERT Team  | 1  |                              |

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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 sup |
|--|--------------------------------------|-------------------------|
| Student Exchange Programme                             | Swinburne University<br>- 3 students | SELF                    |
| Collaboration for Research with University of Geneva   | Santhosh Arul                        | EMBO                    |
| 4 - Day Workshop on Machine Learning and Deep Learning | 120 Students                         | NIL                     |
| 4 - Day Workshop on Machine Learning and Deep Learning | 30 Faculty Members                   | NIL                     |

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3.7.2 - Linkages with institutions/industries for internship, on-the- job training, project work, st 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 | Duration To |
|-------------------|-------------------------|---|---------------|-------------|
| Training          | Flight Training Program | Flight lab, IIT Kanpur  | 16/10/2018    | 17/12/201   |

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3.7.3 - MoUs signed with institutions of national, international importance, other institutions, in corporate houses etc. during the year

| Organisation                    | Date of MoU signed | Purpose/Activities                            | Number of students participated u |
|---------------------------------|--------------------|---|-----------------------------------|
| Northern Arizona University-USA | 26/11/2018         | Student Exchange, Faculty Exchange Programmes | 1                                 |

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## 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 | Budget utilized for infrastructure d |
|--|--------------------------------------|
| 1600   | 1725                                 |

4.1.2 - Details of augmentation in infrastructure facilities during the year

| Facilities  | Existin<br>A |
|---|--------------|
| Value of the equipment purchased during the year (rs. in lakhs) | Newl         |
| Class rooms   | Newl         |
| Laboratories  | Newl         |
| Laboratories  | Ex:          |

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## 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 |
|---------------------------|---|---------|---------|
| REC LIBSOFT               | Fully                                     | 3.0     |         |

### 4.2.2 - Library Services

| Library Service Type | Existing |        | Newly Added |       |      |
|----------------------|----------|--------|-------------|-------|------|
| CD & Video           | 4166     | 409085 | 606         | 53646 | 4772 |

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

| Name of the Teacher | Name of the Module        | Platform on which module is developed | Date of la content |
|---------------------|---------------------------|---------------------------------------|--------------------|
| All Teachers        | All subjects - Moodle LMS | Moodle                                | 30/12/20           |

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## 4.3 - IT Infrastructure

### 4.3.1 - Technology Upgradation (overall)

| Type     | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Avail Bandw (MBPS) |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|--------------------|
| Existing | 1825            | 1275         | 1825     | 35               | 100              | 34     | 381         | 22                 |
| Added    | 130             | 0            | 0        | 0                | 0                | 0      | 0           | 0                  |
| Total    | 1955            | 1275         | 1825     | 35               | 100              | 34     | 381         | 22                 |

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

225 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 facility     |
|--|--|
| Moodle Learning management software        | <a href="http://www.rajalakshmi.org">www.rajalakshmi.org</a> |

## 4.4 - Maintenance of Campus Infrastructure

### 4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities salary component, during the year

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure i maintenance facilit |
|--|--|--|-----------------------------------|
|  |  |  |                                   |

3125

3073

1700

180

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

We have separate departments to maintain each type of facility. A staff is provided to work under the supervision of a designated head of each department including Infrastructure, EB, Finance, Administration, Library and Sports. Unified - the management information system developed for our institution. Policies and procedures can be used to reserve the needs of staff and students. We do have a complaint mechanism through this portal, which is attended to and will be closed by the concerned department.

## CRITERION V - STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Scholarships and Financial Support

|                                      | Name/Title of the scheme                 | Number of students |
|--------------------------------------|--|--------------------|
| Financial Support from institution   | Thiruvencatam Sivasailam Endowment Prize | 1                  |
| Financial Support from Other Sources |  |                    |
| a) National                          | BC/MBC Scholarship                       | 1062               |
| b) International                     | NIL                                      | Nil                |

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, language coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.

| Name of the capability enhancement scheme        | Date of implementation | Number of students enrolled | Agency    |
|--|------------------------|-----------------------------|-----------|
| Motivational Speech on "Brain Awareness program" | 06/03/2019             | 315                         | SASH : Ma |

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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     | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passed in the comp. exam |
|------|------------------------|--|--|--|
| 2018 | IIT- Technical SEMINAR | 125  | 103  | 45   |

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

|                           |                                |                                   |
|---------------------------|--------------------------------|-----------------------------------|
| Total grievances received | Number of grievances redressed | Avg. number of days for grievance |
| 1                         | 1                              | 5                                 |

## 5.2 - Student Progression

### 5.2.1 - Details of campus placement during the year

| On campus                     |                                 |                           | Off campus                    |                                 |
|-------------------------------|---------------------------------|---------------------------|-------------------------------|---------------------------------|
| Name of organizations visited | Number of students participated | Number of students placed | Name of organizations visited | Number of students participated |
| ZOHO CORPORATION              | 493                             | 16                        | VERNALIS                      | 346                             |

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

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Percentage |
|------|--|--------------------------|---------------------------|----------------------------|------------|
| 2019 | 1  | BE                       | Aeronautical Engg         | BITS                       | Aer        |

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### 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)

| Items     | Number of students selected/ qualifying |
|-----------|---|
| GATE      | 41                                      |
| GRE       | 17                                      |
| TOFEL     | 12                                      |
| Any Other | 47                                      |

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

| Activity   | Level       | Number of Participants |
|--|-------------|------------------------|
| College Sports Day                                   | Institution |                        |
| Anna University zone 2 Badminton Women Tournament    | Zonal       |                        |
| Anna University zone 2 Ball Badminton Men Tournament | Zonal       |                        |
| Anna University zone 2 Handball Men Tournament       | Zonal       |                        |

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## 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 | Number of awards for Sports | Number of awards for Cultural | Student ID number |
|------|--------------------------|-------------------------|-----------------------------|-------------------------------|-------------------|
| 2018 | Winner Badminton         | National                | 1                           | 1                             | REC Team          |
| 2018 | Silver Medal - 200 Mts   | National                | 1                           | 1                             | 201504104 T       |
| 2018 | Silver Medal - 10000 Mts | International           | 1                           | 1                             | 201504104 K       |
| 2019 | Runners- Handball        | National                | 1                           | 1                             | REC Team          |
| 2019 | Gold-Long Jump           | National                | 1                           | 1                             | 170801502 S       |

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

Students are members in the following committees • Class committee class • Anti ragging committee • IQAC • Grievance redressal committee harassment prevention cell Students are members of various committee committee meeting is held in the department with representation from for understanding academic nonacademic related issues. Class committee is conducted twice in a semester for each class. Antiragging committee Grievance Redressal committee and women harassment prevention cell have members to provide a conducive atmosphere in the campus for students meetings are conducted and students actively participate in all the

#### 5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

Yes. Rajalakshmi Engineering College Alumni Association has been registered under the Tamil Nadu Societies Registration Act, 1975 with No: 290/2018 on 12th September 2018

5.4.2 - No. of registered Alumni:

8432

5.4.3 - Alumni contribution during the year (in Rupees) :

0

5.4.4 - Meetings/activities organized by Alumni Association :

Seminar Enhancing the Quality of Water and its Treatment Workshop Computational Intelligence Participation as Judges for the Design Contest Seminar on Higher Studies at abroad Seminar on Automotive Engineering Seminar on How to prepare GATE Industrial Visit to Shri Technological Contribution towards BOS Meetings of all departments Seminar on Technical Expertise for Air Force Helping the students in Final year projects

### CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT



## 6.1 - Institutional Vision and Leadership

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

Enrichment of knowledge and academic performance : Faculty level programmes and student workshops are identified and organised at the discretion of HoD of every department. Departments are empowered to attend any event or industrial visit that would benefit in the knowledge of the faculty and students. Coaching classes for weak students and for competitive exams are planned and delivered at department level and faculty members are part of all college level committee that include Event organising committee, statutory committee, Board of Studies, Council, College Development Council, IQAC, disciplinary committee, committee of monitoring committee and academic Guardians. Student Internship Institution has taken great initiative in getting internships to students in industries and universities abroad. All support is extended to incoming students and a fruitful outcome is ensured

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

Yes

## 6.2 - Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with each):

| Strategy Type  | Details  |
|--|--|
| Admission of Students                                      | Admissions happen in the college through government (Anna University counselling) and through management by category. For Undergraduation programs minimum percentage in HSC is fixed for each category for admission. Lateral entry admissions have minimum pass percentage for diploma programs. For Postgraduation programs, applicants for an undergraduation degree in Anna University or other universities accepted by Syndicate of Anna University with minimum percentage is necessary for admissions. Orientation and Induction programmes are conducted   |
| Industry Interaction / Collaboration                       | Industry Institute Interaction (III) is given high priority. Our college decides on the curriculum based on input from industry experts and academicians. Each year Board of Meeting is conducted in each department to align the curriculum with the latest revisions technology from this, industry experts are invited to share their expertise with students through guest lectures. Industry visits are organized for students to understand the applicability of their knowledge. MoUs are signed with organizations technical and academic. Technical institutions provide internships, projects and offer placement opportunities to students. Academic institutions help our college in research studies, exchange programs, etc. |
| Library, ICT and Physical Infrastructure / Instrumentation | Library is functioning well with fullfledged staff and automated system and has latest edition books. Students make the best use of it. Each student is given library card they make the best use of the facility. ICT is utilized to the fullest extent with the digital room made available  |

|                            |  |
|----------------------------|--|
|                            | <p>adequate computers and digital content. Physical Infrastructure like classrooms, auditorium, seminar computer labs and other labs are available in sufficient numbers for usage. Our college focuses on continuous of curriculum based on industry requirements. With mind the laboratory facilities and the instrument therein is updated accordingly with the latest equipment year alongside curriculum updation.</p>  |
| Research and Development   | <p>A Centre for Scientific Research Consultancy Centre Sponsored Research and Consultancy (CSRC) was constituted to strengthen research activities, enhance industry in and foster industry relevant research. It also works on nurturing research culture. CSRC regularly keeps track of sponsorships given by Government and Government bodies and research and update the information to faculty members. Faculty members are encouraged for applying for various research funds, their applications are verified by CSRC. Support is given for applying for various funded projects. Faculty members are encouraged to pursue doctoral degrees. On-duty facility is provided for the same.</p>                                   |
| Examination and Evaluation | <p>Continuous assessments tests are conducted centrally in the examination department. Question papers for the courses offered are collected in 2 sets from the faculty and one of them is chosen by controller of examinations. For evaluation, the answer scripts are audited by external examiners with reference to the answer keys prepared by the faculty. Semester exams are conducted with a well discussed syllabus and evaluated with external experts.</p>  |
| Teaching and Learning      | <p>Faculty are allotted courses based on their preferred expertise. A mentor is made available for reference and monitoring. A systematic faculty preparation programme is in place, which gets the lesson plan and delivery schedule in advance. Appropriate suggestions to adopt modern teaching methodologies are provided and necessary teaching aids are provided. Students and faculty are encouraged to take up online courses and due facilities are extended for the same. Taking up online certification exam from various institutes, after approval of the authorities are encouraged for credit of their coursework. They are encouraged and supported to use modern teaching aids for effective learning outcomes.</p> |
| Curriculum Development     | <p>Board of Studies of each department meets every year to update the curriculum. Members from affiliating universities, reputed institutions and industry provide their suggestions and ensure technical updates in the courses and syllabus. Approved Syllabi and regulations are presented to the University Council consisting of renowned academicians from the university and industry.</p>  |

#### 6.2.2 - Implementation of e-governance in areas of operations:

| E-governance area | Details  |
|-------------------|--|
| Examination       | Course registration Internal marks uploading and consolidation Hall ticket generation Grade sheet generation |

|                               |   |
|-------------------------------|---|
| Planning and Development      | Resources reservation Utilization Service requests requests Procurement procedure Training schedu                           |
| Administration                | Event request and approvals Issue of LoR Faculty data applications and approval   |
| Finance and Accounts          | Budget request and approvals Purchase Indent and p Faculty and staff salary Student Fee details                             |
| Student Admission and Support | Student data Class and section allocation Elective c grouping Faculty allotment ID card request Bonafide Attendance reports |

### 6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards 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 which membership fee is provided |
|------|--------------------------|--|--|
| 2019 | Mr<br>DINESHKUMAR<br>P T | GIAN - Advanced Refrigerating Systems                                      | NIT Rourkela   |

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6.3.2 - Number of professional development / administrative training programmes organized by 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 | From date  | To Date    | Number of participant (Teaching staff) |
|------|--|---|------------|------------|--|
| 2018 | Road Safety Training Programme<br>Road Safety Training Programme             | Road Safety Training Programme  | 25/06/2018 | 25/06/2018 | 1                                      |
| 2018 | Vehicle operation and AC Function programme                                  | Vehicle operation and AC Function programme                                     | 07/05/2018 | 07/05/2018 | 1                                      |
| 2018 | Road Safety Training Programme   | Road Safety Training Programme  | 18/12/2018 | 18/12/2018 | 1                                      |
| 2019 | Driver Awareness   | Driver Awareness  | 05/01/2019 | 05/01/2019 | 1                                      |
| 2019 | Free Eye Test camp   | Free Eye Test camp  | 06/04/2019 | 06/04/2019 | 1                                      |

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6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Progr. Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | From Date  | To date  |
|---|---------------------------------|------------|----------|
| LOW CARBON TECHNOLOGY INNOVATIONS               | 2                               | 19/07/2019 | 19/07/20 |

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

| Teaching  |           | Non-teaching |           |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent    | Full Time |
| 468       | 468       | 127          |           |

#### 6.3.5 - Welfare schemes for

| Teaching  | Non-teaching   | Student   |
|---|--|---|
| Free Lunch Rs.7500 every year for knowledge enrichment per research paper published in Scopus Indexed Journals Maternity leave, Medical benefits and Health Centre are provided Salary advance facility | Subsidised canteen facility Free Lunch Free Transport Salary advance facility Maternity leave, Medical benefits and Health Centre are provided | Merit Scholarships awarded Government school assistance Proportionate project assistance is awarded to who win in symposium project competition |

### 6.4 - Financial Management and Resource Mobilization

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

Internal Audit is carried by officials deputed from head office per and the reports are obtained prior to the conduct of the external audit is normally done after the closure of the accounts. During the course of Internal audit, all procedures are followed to regularize the accounts, to obtain confirmations for the credit balances, to collect documentary evidences wherever inadequate in respect of payments, compliances and statutory formalities and reconciliation of unit wise balances control accounts and banks reconciliations External audit is done by statutory auditors after June 30 of every year. External statutory audit is conducted by the auditors and the final audit report with audit findings is submitted to the management. The consolidation of the findings of the Institutions with trust central office will be completed and the returns are submitted to all concerned authorities of the state and central governments.

#### 6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropists during the year(not covered in Criterion III)

| Name of the non government funding agencies /individuals | Funds/ Grants received in Rs. | Purpose   |
|--|-------------------------------|---|
| REC  | 10000000                      | Setup of research facility and space augmentation |

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#### 6.4.3 - Total corpus fund generated

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

| Audit Type     | External |                   | Inte |
|----------------|----------|-------------------|------|
|                | Yes/No   | Agency            |      |
| Academic       | Yes      | NBA               | Yes  |
| Administrative | Yes      | External Auditors | Yes  |

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

Parents provide valuable feedback on curriculum, employability and matters of discussion, which are analysed and taken for appropriate actions. Parents provide references to experts, who deliver lectures to students. Parents support the administration in counselling their improvement of academic performance.

**6.5.3 - Development programmes for support staff (at least three)**

Support staff are sponsored to undergo training programmes. All staff are trained in latest equipment handling and technologies. Staff are encouraged to pursue higher studies in their field of specialization.

**6.5.4 - Post Accreditation initiative(s) (mention at least three)**

Constituted IPR cell and a system to motivate and facilitate application submission. Encouragement to Research Paper submission incentives and leave permissions. Periodically revised curriculum enhanced placements and industry requirements.

**6.5.5 - Internal Quality Assurance System Details**

|  |
|--|
| a) Submission of Data for AISHE portal |
| b) Participation in NIRF               |
| c) ISO certification                   |
| d) NBA or any other quality audit      |

**6.5.6 - Number of Quality Initiatives undertaken during the year**

| Year | Name of quality initiative by IQAC                           | Date of conducting IQAC | Duration From | Duration To |
|------|--|-------------------------|---------------|-------------|
| 2018 | Measuring Continuous Quality Improvement in Higher Education | 24/11/2018              | 24/11/2018    | 24/11/2018  |
| 2018 | Rubrics for assessing Quality Improvement                    | 19/12/2018              | 19/12/2018    | 19/12/2018  |
| 2018 | Teaching Pedagogy and Outcomes                               | 12/07/2018              | 12/07/2018    | 14/07/2018  |
| 2019 | Workshop to Enrich Classroom Communication                   | 11/04/2019              | 12/04/2019    | 12/04/2019  |

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**CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 - Institutional Values and Social Responsibilities**

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution year)

| Title of the programme        | Period from | Period To  | Number of Female |
|-------------------------------|-------------|------------|------------------|
| Awareness on Women's Health   | 28/09/2018  | 28/09/2018 | 210              |
| Self Defence Training Program | 17/07/2018  | 17/07/2018 | 180              |

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

| Percentage of power requirement of the University met by the renewable energy sources  |
|--|
| Solar Power Water heaters were installed in Hostels and they have been helping to reduce usage of power by 40% in hostels. More than 1000 trees are being planted and maintained in our campus. A dedicated full time gardener is available for maintaining the greens around. Every building has a good number of flowering plants and lawns well maintained. Papers used at the institution are recycled in association with ITC and this ensures the use of reusability and reduction in cut of trees for papers. |

7.1.3 - Differently abled (Divyangjan) friendliness

| Item facilities     | Yes/No | Number of beneficiaries |
|---------------------|--------|-------------------------|
| Physical facilities | Yes    | 6                       |
| Provision for lift  | Yes    | 6                       |
| Ramp/Rails          | Yes    | 6                       |
| Rest Rooms          | Yes    | 6                       |

7.1.4 - Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date       | Duration | Name of initiative          | Issues addressed |
|------|--|--|------------|----------|-----------------------------|------------------|
| 2018 | 1  | 1  | 21/09/2018 | 111      | Plastic Awareness Programme | Plastic Waste    |

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7.1.5 - Human Values and Professional Ethics

| Title               | Date of publication | Follow up(max 100 words)   |
|---------------------|---------------------|--|
| Student handbook    | 01/06/2018          | Updated information on internal assessment and final mark calculation, credit system   |
| Faculty HR handbook | 01/06/2018          | Updated information on Leave policy, vacation, workload  |
| Student Calendar    | 01/06/2018          | Semester wise academic planner with working dates, holidays, dress code, important phone numbers, leave forms, on duty forms |

7.1.6 - Activities conducted for promotion of universal Values and Ethics

| Activity                       | Duration From | Duration To | Number of |
|--------------------------------|---------------|-------------|-----------|
| Ethics and Hardwork            | 17/08/2018    | 17/08/2018  | 1         |
| Essentials for Success in Life | 28/08/2018    | 28/08/2018  | 1         |
| Lecture on Women Empowerment   | 16/10/2018    | 16/10/2018  | 7         |
| Lecture on General Ethics      | 07/01/2019    | 07/01/2019  | 1         |
| Tamil Vidu Thoothu             | 26/10/2018    | 26/10/2018  | 8         |
| Imir                           | 10/11/2018    | 10/11/2018  | 6         |
| Vedhigai                       | 29/11/2018    | 29/11/2018  | 4         |

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#### 7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Reduction in usage of papers by using Institutional software
2. of papers through ITC
3. Biodegradable wastes are treated to produce and manure for plants
4. Usage of plastic is banned in college including canteens
5. Water recycling

#### 7.2 - Best Practices

##### 7.2.1 - Describe at least two institutional best practices

1. Faculty training based on feedback and appraisal
2. Student patent and product development

Upload details of two best practices successfully implemented by the institution as per NAAC your institution website, provide the link

[www.rajalakshmi.org/downloads/FEP-REC.pdf](http://www.rajalakshmi.org/downloads/FEP-REC.pdf)

#### 7.3 - Institutional Distinctiveness

##### 7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision and thrust in not more than 500 words

**Research Consultancy : Centre for Sponsored Research and Consultancy** established i. To provide research ambience for all students and providing seed money required to carry out the initial study and grant for writing proposal to various funding agencies. ii. All proposal by the faculty are vetted by a panel of experts who add valuable support for the higher rate of success of the same. iii. Students are encouraged to do projects of high calibre using research facilities available in college and best projects are awarded. iv. To promote Consultancy, faculty are motivated to get in touch with leading industries of specialisation and find all possible opportunities for collaborative and consultancy activities v. Institute's PR cell constituted and guidance for all students and staff for developing and filing patents. Engaged a professional patent consultant to guide on patents, due to we have registered 14 number of patents in past 3 years

Provide the weblink of the institution

<https://www.rajalakshmi.org/research.php>

#### 8. Future Plans of Actions for Next Academic Year

1. Value Addition Courses to be incorporated as part of Curriculum
- Industry Exposure to faculty through sabbaticals
3. Industry collabor

