



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

|   |  |
|---|--|
| Part A  |  |
| <b>Data of the Institution</b>                |  |
| <b>1. Name of the Institution</b>             | INDERPRASTHA ENGINEERING COLLEGE   |
| Name of the head of the Institution           | Prof. (Dr.) Ajay Kumar   |
| Designation                                   | Director   |
| Does the Institution function from own campus | Yes  |
| Phone no/Alternate Phone no.                  | 0120-4535057   |
| Mobile no.                                    | 9971664484   |
| Registered Email                              | director@ipecc.org.in  |
| Alternate Email                               | naac.iqac@ipecc.org.in   |
| Address                                       | 63 Site IV, Sahibabad Industrial Area,<br>Surya Nagar Flyover Road Sahibabad,<br>Ghaziabad-U.P PIN Code-201010 |
| City/Town                                     | GHAZIABAD  |
| State/UT                                      | Uttar pradesh  |
| Pincode                                       | 201010   |

| <b>2. Institutional Status</b>         |  |
|--|--|
| Affiliated / Constituent               | <b>Affiliated</b>                              |
| Type of Institution                    | <b>Co-education</b>                            |
| Location                               | <b>Urban</b>                                   |
| Financial Status                       | <b>private</b>                                 |
| Name of the IQAC co-ordinator/Director | <b>Dr. Meenakshi Sharma (IQAC Coordinator)</b> |
| Phone no/Alternate Phone no.           | <b>01204535054</b>                             |
| Mobile no.                             | <b>9891047435</b>                              |
| Registered Email                       | <b>naac.iqac@ipec.org.in</b>                   |
| Alternate Email                        | <b>meenakshi.sharma@ipec.org.in</b>            |

| <b>3. Website Address</b>  |   |
|--|---|
| Web-link of the AQAR: (Previous Academic Year)                           | <a href="http://www.ipec.org.in">http://www.ipec.org.in</a>   |
| <b>4. Whether Academic Calendar prepared during the year</b>             | <b>Yes</b>  |
| if yes,whether it is uploaded in the institutional website:<br>Weblink : | <a href="https://www.ipec.org.in/academics/academic_calender/">https://www.ipec.org.in/academics/academic_calender/</a> |

### **5. Accrediation Details**

| Cycle    | Grade      | CGPA        | Year of Accrediation | Validity           |                    |
|----------|------------|-------------|----------------------|--------------------|--------------------|
|          |            |             |                      | Period From        | Period To          |
| <b>1</b> | <b>B++</b> | <b>2.80</b> | <b>2019</b>          | <b>01-Apr-2019</b> | <b>31-Mar-2024</b> |

|   |                    |
|---|--------------------|
| <b>6. Date of Establishment of IQAC</b> | <b>26-May-2017</b> |
|---|--------------------|

### **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 |
| <b>Blood Donation Camp</b>  | <b>07-Sep-2018</b><br><b>1</b> | <b>92</b>                             |

|   |                   |     |
|---|-------------------|-----|
| 3rd International Conference on ICADS-2019  | 12-Apr-2019<br>2  | 150 |
| Webinar on AWS Cloud  | 29-Oct-2018<br>1  | 40  |
| National Seminar on Advancement in RADAR Antenna  | 02-Nov-2018<br>1  | 136 |
| Training on Circuit Simulation Tool using ORCAD   | 12-Jun-2019<br>2  | 10  |
| Summer Training - Machine Learning with Python  | 07-Jun-2019<br>15 | 64  |
| 21 days Residential Summer Training Program on Network Management with Web Development and Android with Core Java | 12-Jun-2019<br>21 | 260 |
| Workshop on SAK- ROBOTIX  | 06-Feb-2019<br>2  | 36  |
| International Conference on ICADS-2019  | 12-Apr-2019<br>2  | 150 |
| International Conference on ICCETE 19   | 27-Apr-2019<br>2  | 150 |

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**8. Provide the list of funds 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 |
|---------------------------------|---|----------------|-----------------------------|--------|
| Mechanical Engineering          | Fabrication of Green Binthe compost machine | AKTU           | 2018<br>183                 | 12000  |
| Information Technology          | Incubation Project                          | AKTU           | 2018<br>90                  | 12000  |

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

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**10. Number of IQAC meetings held during the year :**

4

| 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 Uploaded File</a>  |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>   | No  |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>  |   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| 1. NBA Accreditation for the department of Information Technology. 2. NBA Accreditation for the department of Civil Engineering 3. NAAC Accreditation 4. Improvement in the Result of B.Tech First Year 5. Higher Placement percentage   |   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| No Files Uploaded !!!  |   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <b>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</b>   |   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>NBA accreditation of IT Department</td> <td>IT department got accredited by NBA for three years</td> </tr> <tr> <td>NBA accreditation of Civil Engg. Department</td> <td>Civil Engg. department got accredited by NBA for three years</td> </tr> <tr> <td>NAAC Accreditation of the Institute</td> <td>Institute got accredited by NAAC with B++ Grade</td> </tr> <tr> <td>Improvement in Result of B.Tech First Year</td> <td>Significant improvement in the result of B.Tech First Year at the end of year</td> </tr> <tr> <td>To improve the placement</td> <td>Significant improvement in the placement</td> </tr> <tr> <td colspan="2" style="text-align: center;">No Files Uploaded !!!</td> </tr> </tbody> </table> |   | Plan of Action | Achivements/Outcomes | NBA accreditation of IT Department | IT department got accredited by NBA for three years | NBA accreditation of Civil Engg. Department | Civil Engg. department got accredited by NBA for three years | NAAC Accreditation of the Institute | Institute got accredited by NAAC with B++ Grade | Improvement in Result of B.Tech First Year | Significant improvement in the result of B.Tech First Year at the end of year | To improve the placement | Significant improvement in the placement | No Files Uploaded !!! |  |
| Plan of Action   | Achivements/Outcomes  |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| NBA accreditation of IT Department   | IT department got accredited by NBA for three years                           |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| NBA accreditation of Civil Engg. Department  | Civil Engg. department got accredited by NBA for three years                  |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| NAAC Accreditation of the Institute  | Institute got accredited by NAAC with B++ Grade                               |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| Improvement in Result of B.Tech First Year   | Significant improvement in the result of B.Tech First Year at the end of year |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| To improve the placement   | Significant improvement in the placement                                      |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| No Files Uploaded !!!  |   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <b>14. Whether AQAR was placed before statutory body ?</b>   | No  |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>   | Yes   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| Date of Visit  | 28-Mar-2019   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| <b>16. Whether institutional data submitted to AISHE:</b>  | Yes   |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |
| Year of Submission   | 2019  |                |                      |                                    |   |   |  |                                     |   |  |   |                          |  |                       |  |

|  |   |
|--|---|
| Date of Submission   | 26-Feb-2019   |
| <b>17. Does the Institution have Management Information System ?</b>                             | Yes   |
| If yes, give a brief description and a list of modules currently operational (maximum 500 words) | <p>IPEC Live System: IPEC Live system manages ERP of the entire campus operations/activities and academics management in an efficient way. This ERP facilitates symmetrical process for employees, students admission, teachers-parents collaboration, examination, financial and administration operations and attendance management, academic monitoring etc. This system provides user friendliness, simplicity and compatibility environment. IPEC Live System Modules are :</p> <ol style="list-style-type: none"> <li>1) Accounts</li> <li>2) Registrar</li> <li>3) HR</li> <li>4) Store</li> <li>5) Library</li> <li>6) Hostel</li> <li>7) Employee attendance system</li> <li>8) Student academic information</li> <li>9) Class time table</li> <li>10) Faculty feedback</li> <li>11) ICard Print</li> <li>12) Student Admission</li> <li>13) Administration</li> </ol> <p>1) Account : Student fee collection by NEFT</p> <p>2) Registrar : Complete rights to get any information about student i.e student academic details etc.</p> <p>3) HR : Employees Attendance records and employee leave update records</p> <p>4) Library :</p> <ol style="list-style-type: none"> <li>a) Online Book -bank records</li> <li>b) Stack Book Records</li> <li>c) Students Book, Issue and return record</li> <li>d) Employees Books Issue and returns record</li> <li>e) Library audit system</li> </ol> <p>5) Store : It maintains all records of college stock. This module handles all types of transaction regarding purchase, storage of various items.</p> <p>6) Hostel : This module allocates student room allotment. It manages the students details, room details and room allocation information.</p> <p>7) Employee attendance system : It is designed to handle the Biometric attendance system of college. All attendance reports can be generated in any format.</p> <p>8) Student academic information :</p> <ol style="list-style-type: none"> <li>a) This module designed to maintain students attendance, sectional marks provided by faculty.</li> <li>b) Parents can check student performance by using student login.</li> <li>9) Class Time Table : This module verifies the duration, availability of faculty and class wise subject/teacher setting.</li> <li>10)</li> </ol> |

Faculty feed Back : software design to enter the feedback about faculty by students. Students can give his/her suggestion and comment about faculty. Keep the all feedback confidentially. 11) ICard Print : Printing the Icards for employees and students in a predefine format.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The Institution has developed extensive action plan and practices it for effective implementation of the curriculum through the following measures. Academic calendar is prepared to include internal Assessment test schedule, university examination schedule and the institution level activities: 1. An Academic Calendar followed by Academic Activity Calendar is prepared in each semester in alignment with Academic Calendar of the university by the Academic Committee of the institute and is strictly followed. 2. Subject choice is taken from each faculty member of the department. 3. Subject allotment to faculty is based on skill matrix, experience, area of specialization and 4. performance in previous years. 5. Timetable in-charge of each department prepares the timetable as per the university guidelines for the number of credit hours for each subject prior to the commencement of the semester. After that faculty-wise detailed time table is also prepared. 6. Lecture Plan and course file are prepared beforehand as per the fixed parameters required to capture the execution details and to analyze the gaps (if any). 7. Assigning the teaching faculty for mentoring students on academic as well as personal issues to a better learning atmosphere 8. Emphasis is given to use modern teaching aids in course delivery. 9. Student's attendance is monitored regularly through ERP software. 10. As a part of continuous evaluation, institution conducts three internal tests first two of 2 hour duration and another one of 3 hour duration for 2nd year to final year. For first year, institute is following the methodology of internal test of two subjects on every Monday. 11. Evaluated answer booklet are shown to the students and marks are uploaded on the college ERP. 12. Student feedback is taken to review the performance of the faculty members. 13. Identification of weak students is done on the basis of their performance in sessional exams and to improve their performance, remedial classes are conducted for them. These remedial actions include extra classes for such students, practice session on numerical problems, providing the question bank with solution etc. 14. Parents are informed about the performance and attendance of their ward at regular interval by the department. 15. Opportunities are provided to the students by creating a stimulating environment to strengthen their technical knowledge as well as honing their soft skills. 16. NPTEL Modules and spoken tutorials are used to enhance their technical knowledge. 17. Technical lectures by personnel from academic institutions, research organizations and industries are regularly held. 18. Lab experiments are conducted in accordance with the university curriculum within and beyond syllabus. 19. At the end of each semester one or two quizzes with internal viva takes place for the final evaluation of the lab internal marks. 20. Teachers can strengthen their knowledge in the subjects listed in the curriculum during summer and winter vacation period by attending the FDPs on their area of relevance. 21. Industrial visits are encouraged to provide real

time exposure to the students. 22. Institutes provide teaching aids such as OHP/LCD Projectors, free WiFi, NPTEL access.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

| Certificate  | Diploma Courses | Dates of Introduction | Duration | Focus on employ ability/entrepreneurship | Skill Development |
|--|-----------------|-----------------------|----------|--|-------------------|
| Data Mining  | -               | 25/02/2019            | 40       | Y  | Y                 |
| Employment Communication - A Lab based course                  | -               | 25/02/2019            | 40       | Y  | Y                 |
| Introduction to Industry 4.0 and Industrial Internet of Things | -               | 25/02/2019            | 60       | Y  | Y                 |
| Big Data Computing   | -               | 25/02/2019            | 40       | Y  | Y                 |
| Data Base Management system                                    | -               | 25/02/2019            | 40       | Y  | Y                 |
| Enhancing Soft Skills and Personality                          | -               | 25/02/2019            | 40       | Y  | Y                 |
| Machine Learning, ML   | -               | 01/02/2019            | 40       | Y  | Y                 |
| Programming in Java  | -               | 28/01/2019            | 60       | Y  | Y                 |
| Joy of computing using Python                                  | -               | 28/01/2019            | 60       | Y  | Y                 |
| Problem solving through Programming In C                       | -               | 28/01/2019            | 60       | Y  | Y                 |
| Data Mining  | -               | 28/01/2019            | 60       | Y  | Y                 |
| Blockchain Architecture Design and Use Cases                   | -               | 28/01/2019            | 60       | Y  | Y                 |
| Discrete Mathematics   | -               | 28/01/2019            | 60       | Y  | Y                 |
| Programming  | -               | 28/01/2019            | 40       | Y  | Y                 |

|   |   |            |    |   |   |  |
|---|---|------------|----|---|---|--|
| in C  |   |            |    |   |   |  |
| Programmin<br>g,Data<br>Structures<br>and<br>Algorithms<br>using Python   | - | 28/01/2019 | 40 | Y | Y |  |
| Better<br>Spoken<br>English   | - | 28/01/2019 | 60 | Y | Y |  |
| Three Week<br>Winter<br>Training<br>Program on<br>Structural<br>Design<br>Detailing<br>using STAAD<br>Pro, STAAD<br>Foundation<br>AutoCAD | - | 07/01/2019 | 40 | N | Y |  |
| Enhancing<br>Soft Skills<br>and<br>Personality  | - | 01/01/2019 | 60 | Y | Y |  |
| Soft<br>Skills for<br>Business<br>Negotiations<br>and<br>Marketing St<br>rategies(NPT<br>EL)  | - | 01/01/2019 | 60 | Y | Y |  |
| Non-Conven<br>tional<br>Energy<br>Resources   | - | 01/01/2019 | 60 | Y | Y |  |
| Microproce<br>ssors and Mi<br>crocontrolle<br>rs  | - | 01/01/2019 | 60 | Y | Y |  |
| Analog<br>Circuits  | - | 01/01/2019 | 60 | Y | Y |  |
| Basic<br>Linear<br>Algebra  | - | 01/01/2019 | 60 | Y | Y |  |
| Control<br>engineering  | - | 01/01/2019 | 60 | Y | Y |  |
| Digital<br>Electronic<br>Circuits   | - | 01/01/2019 | 60 | Y | Y |  |
| Electromag<br>netic Waves   | - | 01/01/2019 | 60 | Y | Y |  |

|   |   |            |     |   |   |
|---|---|------------|-----|---|---|
| in Guided<br>and Wireless<br>Media  | - | 01/01/2019 | 60  | Y | Y |
| Introduction<br>To<br>Composites  | - | 01/01/2019 | 60  | Y | Y |
| Modelling<br>and<br>Simulation<br>of Dynamic<br>Systems   | - | 01/01/2019 | 60  | Y | Y |
| Principles<br>of Communica<br>tion Systems<br>- I   | - | 01/01/2019 | 60  | Y | Y |
| Principles<br>of Signals<br>and Systems   | - | 01/01/2019 | 60  | Y | Y |
| 30 hour<br>training<br>program on<br>Primavera  | - | 29/09/2018 | 30  | N | Y |
| Robotics<br>course(1<br>year) from<br>Sak Robotics<br>lab pvt.<br>Ltd.,Start<br>up<br>center,IIT<br>Bhubneshwar | - | 24/09/2019 | 365 | Y | Y |
| 24hours<br>training<br>program on<br>GIS software   | - | 09/09/2018 | 24  | N | Y |
| Introduction<br>to<br>Programming<br>in C   | - | 27/08/2018 | 60  | Y | Y |
| Introduction<br>to Machine<br>Learning  | - | 27/08/2018 | 40  | Y | Y |
| Developing<br>Soft Skills<br>and<br>Personality   | - | 27/08/2019 | 40  | Y | Y |
| Data Base<br>Management<br>system   | - | 06/08/2018 | 40  | Y | Y |
| Design and  | - | 06/08/2018 | 40  | Y | Y |

|  |   |            |    |   |   |
|--|---|------------|----|---|---|
| Analysis of Algorithms                                   | - | 06/08/2018 | 40 | Y | Y |
| Introduction to Machine Learning                         | - | 06/08/2018 | 40 | Y | Y |
| Developing Soft Skills and Personality                   | - | 06/08/2018 | 40 | Y | Y |
| Introduction to R  | - | 06/08/2018 | 40 | Y | Y |
| Programming in C   | - | 06/08/2018 | 40 | Y | Y |
| Programming, data structures and algorithms using Python | - | 06/08/2018 | 40 | Y | Y |
| The Joy of Computing using Python                        | - | 30/07/2018 | 60 | Y | Y |
| Problem Solving through Programming in C                 | - | 30/07/2018 | 60 | Y | Y |
| Introduction to Programming in C                         | - | 30/07/2018 | 60 | Y | Y |
| Design and Analysis of Algorithms                        | - | 30/07/2018 | 40 | Y | Y |
| Blockchain Architecture Design and Use Cases             | - | 30/07/2018 | 60 | Y | Y |
| Computer Architecture                                    | - | 30/07/2018 | 60 | Y | Y |
| Computer Networks and Internet Protocol                  | - | 30/07/2018 | 60 | Y | Y |
| Discrete Mathematics                                     | - | 30/07/2018 | 60 | Y | Y |
| Software   | - | 30/07/2018 | 60 | Y | Y |

|                                     |   |            |     |   |   |
|-------------------------------------|---|------------|-----|---|---|
| testing                             |   |            |     |   |   |
| Analog communication                | - | 01/07/2018 | 60  | Y | Y |
| Digital Circuits                    | - | 01/07/2018 | 60  | Y | Y |
| Discrete Time Signal Processing     | - | 01/07/2018 | 40  | Y | Y |
| Hardware modeling using verilog     | - | 01/07/2018 | 60  | Y | Y |
| Introduction to R Software          | - | 01/07/2018 | 60  | Y | Y |
| Switching Circuits and Logic Design | - | 01/07/2018 | 60  | Y | Y |
| ASIC design and full custom         | - | 01/07/2018 | 365 | Y | Y |
| Physical design                     | - | 01/07/2018 | 365 | Y | Y |
| ASIC verification                   | - | 01/07/2018 | 365 | Y | Y |

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

| Programme/Course  | Programme Specialization | Dates of Introduction |
|-------------------|--------------------------|-----------------------|
| Nil               | Nil                      | Nil                   |
| No file uploaded. |                          |                       |

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

| Name of programmes adopting CBCS | Programme Specialization                | Date of implementation of CBCS/Elective Course System |
|----------------------------------|---|---|
| BTech                            | Computer Science Engineering            | 01/07/2018  |
| BTech                            | Information Technology                  | 01/07/2018  |
| BTech                            | Electrical & Electronics Engineering    | 01/07/2018  |
| BTech                            | Electronics & Communication Engineering | 01/07/2018  |
| BTech                            | Civil Engineering                       | 01/07/2018  |
| BTech                            | Mechanical Engineering                  | 01/07/2018  |
| Mtech                            | Computer Science & Engineering          | 01/07/2018  |

|       |                        |            |
|-------|------------------------|------------|
| Mtech | Production Engineering | 01/07/2018 |
| Mtech | VLSI Design            | 01/07/2018 |

### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

|                    | Certificate | Diploma Course |
|--------------------|-------------|----------------|
| Number of Students | 512         | 0              |

## 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 |
|--|----------------------|-----------------------------|
| IOT and its application  | 10/06/2019           | 62                          |
| Four Weeks Summer Training on Building Information Modelling   | 10/06/2019           | 20                          |
| Cloud Computing  | 07/06/2019           | 59                          |
| Machine Learning and Python (Microsoft IT Academy)   | 06/06/2019           | 56                          |
| Web Development Level-1 (Microsoft IT Academy)   | 21/05/2019           | 29                          |
| Three Week Summer Training Program on AutoCAD  | 20/05/2019           | 23                          |
| 3 weeks Summer Training/Internship on Application on MATLAB in Electrical Electronics Engg., Residential Wiring, Solar PV System Motor Winding | 01/05/2019           | 20                          |
| Success Gateway  | 13/03/2019           | 57                          |
| Java   | 18/02/2019           | 248                         |
| Design and Development Program   | 18/02/2019           | 244                         |
| <a href="#">View Uploaded File</a>   |                      |                             |

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

| Project/Programme Title | Programme Specialization                | No. of students enrolled for Field Projects / Internships |
|-------------------------|---|---|
| BTech                   | CIVIL ENGINEERING                       | 130   |
| BTech                   | MECHANICAL ENGINEERING                  | 105   |
| BTech                   | INFORMATION TECHNOLOGY                  | 119   |
| BTech                   | ELECTRICAL AND ELECTRONICS ENGINEERING  | 69  |
| BTech                   | COMPUTER SCIENCE AND ENGINEERING        | 248   |
| BTech                   | ELECTRONICS & COMMUNICATION ENGINEERING | 166   |

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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 institution?  
(maximum 500 words)

### Feedback Obtained

The feedback is collected at various levels viz. Students, Parents, industry and Alumni. Then the feedback is analyzed and the action taken once the feedback is received. Feedback of stakeholders is sought regularly about infrastructure and learning resources for ensuring their satisfaction. Accordingly, continuous review of infrastructure and learning resources is carried out by respective committees and the recommendations are integrated for upgrading, maintaining and utilizing physical, academic and support facilities. Feedback is also taken from faculties, stakeholders and experts regarding industry trends and feedback to identify new demands of industry. Academic feedback is taken once in a semester from the students to review the teaching-learning processes and the satisfaction level of the students. Proper corrective measures are taken immediately to fill the identified gaps from the students feedback. Feedback from students is also taken through class committee meetings, and corrective measures are taken accordingly to improve the teaching-learning processes. As the five program of the institution are accredited by NBA so as per the requirement of NBA every program takes the feedback on program outcomes from different stakeholder through the approved formats by PAC. Student satisfaction survey is also conducted to know the satisfaction level of the students.

## 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 | Students Enrolled |
|-----------------------|---|---------------------------|--------------------------------|-------------------|
| Mtech                 | Production Engineering                    | 18                        | 2                              | 1                 |
| Mtech                 | VLSI Design                               | 18                        | 0                              | 0                 |
| BTech                 | Mechanical Engineering                    | 120                       | 52                             | 47                |
| BTech                 | Electronics and Communication Engineering | 180                       | 108                            | 121               |
| BTech                 | Electrical and Electronics Engineering    | 60                        | 15                             | 24                |
| BTech                 | Information                               | 120                       | 98                             | 126               |

|                          |   |            |            |            |
|--------------------------|---|------------|------------|------------|
|                          | <b>Technology</b>                         |            |            |            |
| <b>BTech</b>             | <b>Computer Science &amp; Engineering</b> | <b>240</b> | <b>206</b> | <b>250</b> |
| <b>BTech</b>             | <b>Civil Engineering</b>                  | <b>120</b> | <b>34</b>  | <b>33</b>  |
| <b>Mtech</b>             | <b>Computer Science and Engineering</b>   | <b>18</b>  | <b>2</b>   | <b>0</b>   |
| <b>No file uploaded.</b> |   |            |            |            |

## 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 | Number of teachers teaching both UG and PG courses |
|-------------|---|---|---|---|--|
| <b>2018</b> | <b>2866</b>   | <b>1</b>  | <b>201</b>  | <b>9</b>  | <b>210</b>   |

## 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)

| 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-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| <b>210</b>                 | <b>210</b>                                      | <b>15</b>                         | <b>54</b>                        | <b>0</b>                   | <b>5</b>                        |

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

The Institution has a well-defined student mentoring system. The main objective of mentoring is to help each student in taking right decisions for their academic and personal growth. Two faculty members are assigned as mentor to each class to monitor and record their progress regularly. Class committee meeting is a platform where students can discuss issues faced by them. Slow learners issue is dealt with remedial classes. For stress related issues, institution has appointed a counselor who helps the students in case of any stress related issue. Institute always motivates its meritorious student by felicitating them with cash awards and takes extra care of its weak students by mentoring them. The placement cell is an integral part of the institution which ensures that all the students are well trained and prepared to face various interviews held in-campus/off-campus. The placement cell keeps the students well informed about potential job opportunities and guide them from time to time. Soft skill Training is imparted to the students from their second year only. Institute has consistently maintained a placement of more than 75percent. The academic and placement processes are complemented with a diverse array of opportunities provided to the students in enhancing their knowledge beyond academics. Various conferences, guest lectures, workshops, summits, celebrity chats are organized throughout the year to expose them to the outside world work ethics and all the recent developments and innovations. Students are encouraged to develop projects that can get funding from different funding agencies .

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|--|-----------------------------|-----------------------|
| <b>2867</b>                                    | <b>138</b>                  | <b>1 : 21</b>         |

## 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 |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 192                         | 210                     | 0                | 32                                       | 65                       |

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

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation         | Name of the award, fellowship, received from Government or recognized bodies |
|---------------|---|---------------------|--|
| 2018          | AAKRITI CHABRA  | Assistant Professor | ELITEGOLD, NPTEL   |
| 2018          | AJAY KUMAR CHAUHAN  | Assistant Professor | ELITEGOLD, NPTEL   |
| 2018          | ALKA  | Assistant Professor | ELITESILVER, NPTEL   |
| 2018          | ALOK KATIYAR  | Assistant Professor | ELITE CERTIFICATE, NPTEL   |
| 2018          | ANSHUL KHANNA   | Assistant Professor | ELITEGOLD, NPTEL   |
| 2018          | BINDU RANI  | Assistant Professor | ELITE CERTIFICATE, NPTEL   |
| 2018          | DIKSHA DANI   | Associate Professor | ELITEGOLD, NPTEL   |
| 2018          | DR. ANJALI SINGHAL  | Associate Professor | ELITESILVER, NPTEL   |
| 2018          | DR ANJUL SHARMA   | Assistant Professor | ELITE CERTIFICATE, NPTEL   |
| 2018          | DR ARTI BANSAL  | Associate Professor | ELITE CERTIFICATE, NPTEL   |

[View Uploaded File](#)

#### 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 Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
|----------------|----------------|----------------|--|---|
| BTech          | 00             | ODD SEM 2018   | 11/12/2018   | 23/02/2019  |
| BTech          | 00             | EVEN SEM 2018  | 08/05/2019   | 10/07/2019  |
| BTech          | 10             | ODD SEM 2018   | 11/12/2018   | 23/02/2019  |
| BTech          | 10             | EVEN SEM 2018  | 08/05/2019   | 10/07/2019  |
| BTech          | 13             | ODD SEM 2018   | 11/12/2020   | 23/02/2019  |
| BTech          | 13             | EVEN SEM 2018  | 08/05/2019   | 10/07/2019  |
| BTech          | 21             | ODD SEM 2018   | 11/12/2018   | 23/02/2019  |

|                                    |    |               |            |            |
|------------------------------------|----|---------------|------------|------------|
| BTech                              | 21 | EVEN SEM 2018 | 08/05/2019 | 10/07/2019 |
| BTech                              | 31 | ODD SEM 2018  | 11/12/2018 | 23/02/2019 |
| BTech                              | 31 | EVEN SEM 2018 | 08/05/2019 | 10/07/2019 |
| <a href="#">View Uploaded File</a> |    |               |            |            |

#### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The evaluation of each course shall comprise of two parts: Internal and External or End-Semester Assessment. There are three internal tests conducted. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar which is prepared based on the university academic calendar. The internal exam time table is displayed on the notice board and student portal a week in advance. • Questions are framed, such that they adhere to AKTU standard. It follows the Blooms Taxonomy and Outcome based Education in which COs are attained. • The subject coordinator in consultation with the subject teachers prepares question paper that covers equal number of questions from each unit, covering all the topics. Department internal exam coordinator, under the guidance of HOD, checks the standard of the question paper. • Internal exam coordinator ensures smooth conduction of test and proper valuation of internal answer booklets. Internal assessment tests and other measures taken to judge the performance of students is done fairly. Students are allowed to go through the evaluated answer scripts of internal assessment tests and doubts regarding evaluation are cleared. Internal Test performance is intimated to the parents by the student portal in case of satisfactory performance. In Case the performance of the student is not satisfactory, then a letter is sent to the parents regarding the poor performance of their ward in the internal tests and even the parents are called in person by HOD to discuss the future course of action for improvement.

#### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

University publishes Academic Calendar for all courses at the beginning of each session. In line with university academic calendar, college prepares its own academic calendar well in advance before the commencement of the semester and adheres to it in a time bound manner. All the academic activities are planned and executed as per the academic calendar plan. Academic Calendar is prepared by Dean Academics in consultation with the members of Academic Committee and same is then uploaded on college website and displayed on notice board. Academic activities are always given priority and all other activities are performed without disturbing the classes. The institute refers the academic calendar to adhere the planned curriculum and other activities in following manner:-

- 1.The head of the department finalizes the course allocation for the faculty members based on their choice and area of interest or expertise.
- 2.Every faculty member prepares course file which includes teaching plan for each theory and laboratory course
- 3.Attendance of the student is displayed on college ERP as well as on departmental notice board (fortnightly).
- 4.The performance of the students is assessed on a continuous basis by conducting three sessional tests per semester where the average of best two is taken.
- 5.Course Coverage Report is reviewed by Dean Academic/Director in meeting of Academic Committee which is held every month to review all academic activity
- 6.Every department in the institute keeps an eye on the quality of the teaching learning by daily monitoring by the head of the department.

### 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)

<https://www.ipec.org.in> (PO PSO and CO are stated and displayed in college website under each departments)

## 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 | Pass Percentage |
|-------------------|----------------|---|---|---|-----------------|
| 00                | BTech          | Civil Engineering                         | 130   | 114   | 87.69           |
| 10                | BTech          | Computer Science & Engineering            | 248   | 234   | 94.35           |
| 13                | BTech          | Information Technology                    | 121   | 115   | 95.04           |
| 21                | BTech          | Electrical & Electronics Engineering      | 69  | 60  | 86.96           |
| 31                | BTech          | Electronics and Communication Engineering | 172   | 152   | 88.37           |
| 40                | BTech          | Mechanical Engineering                    | 119   | 97  | 81.51           |
| No file uploaded. |                |   |   |   |                 |

## 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)

<https://www.ipec.org.in/wp-content/uploads/Report-of-Student-Satisfaction-Survey-2018-19.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project                | Duration | Name of the funding agency                           | Total grant sanctioned | Amount received during the year |
|--------------------------------------|----------|--|------------------------|---------------------------------|
| Projects sponsored by the University | 812      | Dr. A.P.J. Abdul Kalam Technical University, Lucknow | 4.08                   | 4.08                            |
| Any Other (Specify)                  | 5        | TEQIP-III  | 1.5                    | 1.5                             |
| Any Other (Specify)                  | 30       | DST  | 3                      | 3                               |

|  |     |  |      |      |
|--|-----|--|------|------|
| Students Research Projects (Other than compulsory by the University) | 90  | Dr. A.P.J. Abdul Kalam Technical University, Lucknow | 0.12 | 0.12 |
| Students Research Projects (Other than compulsory by the University) | 183 | Dr. A.P.J. Abdul Kalam Technical University, Lucknow | 0.12 | 0.12 |
| <a href="#">View Uploaded File</a>                                   |     |  |      |      |

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of workshop/seminar   | Name of the Dept.                     | Date       |
|---|---------------------------------------|------------|
| Workshop on Intellectual Property Rights  | Organised by IPEC-IIEC                | 29/09/2018 |
| Startup Talk: A Talk on Innovation Practices  | Organised by IPEC-IIEC                | 09/09/2018 |
| Deep Learning and Applications  | Computer Science Engineering          | 27/05/2019 |
| Python Programming  | Computer Science Engineering          | 15/01/2019 |
| Big Data Analytics and High Performance Computing for Complex Problem Solving   | Information Technology                | 12/07/2018 |
| Workshop on Rodotics  | Information Technology                | 06/02/2019 |
| Enlighten-2018  | Information Technology                | 19/09/2018 |
| Guest Lecture on Networking   | Information Technology                | 14/09/2018 |
| Campus to Corporate   | Information Technology                | 10/09/2018 |
| On MATLAB under Gentronix forum, "MATHSWORKS"   | Electronics Communication Engineering | 14/09/2018 |
| One Day hands on "workshop session on "SPEECH RECOGNITION USING MACHINE LEARNING (ML)" organized by IEEE student branch | Electronics Communication Engineering | 20/09/2018 |
| Workshop on briefing of career oriented Training Programmes in Hardware Design under COE of VLSI and Embedded System    | Electronics Communication Engineering | 22/10/2018 |
| One day National Seminar on "Advancement in RADAR   | Electronics Communication Engineering | 02/11/2018 |

|   |                                       |            |
|---|---------------------------------------|------------|
| Antenna"  |                                       |            |
| Hands on training in "Hardware Digital Design using Digital Components and its implementation on FPGA's                               | Electronics Communication Engineering | 26/02/2019 |
| Workshop on "Working with Analog System Lab Kit (ASLK Kit) by Centre of Excellence-TI Innovation Lab                                  | Electronics Communication Engineering | 26/03/2019 |
| Workshop on "Application of IOT and its industrial applications" by Center of Excellence for VLSI Embedded System Lab                 | Electronics Communication Engineering | 29/03/2019 |
| DRISHTI Online Test based on MSP430 from Texas Instruments by Centre of Excellence-TI Innovation Lab                                  | Electronics Communication Engineering | 16/04/2019 |
| 5 days ICT based FDP on "Mobile Broadband Transformation" in association with NITTTR Chandigarh                                       | Electronics Communication Engineering | 13/05/2019 |
| Two days national conference on NCRTEEE-2019  | Electronics Communication Engineering | 10/06/2019 |
| 3 days Skill Development Program on "Circuit Simulation using the tool ORCAD"   | Electronics Communication Engineering | 12/06/2019 |
| Summer Internship on Internet of Things (IoT) Applications using Embedded Systems organized by Centre of Excellence in IoT Design Lab | Electronics Communication Engineering | 10/06/2019 |
| Workshop on Embedded System with IOT  | Electrical Electronics Engineering    | 14/09/2018 |
| Workshop on opportunities after graduation  | Electrical Electronics Engineering    | 17/09/2018 |
| Workshop on Solar PV System   | Electrical Electronics Engineering    | 25/10/2018 |
| India First Leadership Talk   | Electrical Electronics Engineering    | 24/01/2019 |
| Workshop on Artificial Intelligence and Machine Learning  | Electrical Electronics Engineering    | 07/03/2019 |

### 3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation                       | Name of Awardee                                | Awarding Agency     | Date of award | Category                         |
|---|--|---------------------|---------------|----------------------------------|
| Prototype development in Mars Mission Gallery | Ms. Shivika Singh                              | Kalam Library, AKTU | 15/10/2018    | State                            |
| Rural Innovation and Environment              | Sachin Kardam                                  | CRIP                | 26/07/2019    | Dr. Kalam Innovation Gallery     |
| Fabrication of Green bin-the compost machine  | Himanshu Deshwal                               | AKTU                | 06/06/2019    | Rural Innovation and Environment |
| Automatic Lavatory Smart Public Convenience   | Aman Pradhan, Shruti Khandelwal, Anushka Singh | IIT, Bombay         | 18/02/2019    | Regional                         |
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### 3.2.3 – 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          | Date of Commencement |
|---|--------------|----------------|---------------------------|-----------------------------|----------------------|
| Inderprastha Engineering College, Ghaziabad | Atishay Jain | Self Sponsored | Spark Talks               | Event Management            | 20/08/2018           |
| Inderprastha Engineering College, Ghaziabad | Parth Wadhwa | Self Sponsored | Webree Ventures Pvt. Ltd. | Digital Marketing Solutions | 10/07/2018           |
| No file uploaded.                           |              |                |                           |                             |                      |

## 3.3 – Research Publications and Awards

### 3.3.1 – Incentive to the teachers who receive recognition/awards

| State | National | International |
|-------|----------|---------------|
| 0     | 0        | 0             |

### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

| Name of the Department | Number of PhD's Awarded |
|------------------------|-------------------------|
| Nil                    | 0                       |

### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

| Type          | Department | Number of Publication | Average Impact Factor (if any) |
|---------------|------------|-----------------------|--------------------------------|
| International | CSE        | 6                     | 5.4                            |
| International | IT         | 7                     | 0                              |
| International | ECE        | 17                    | 1                              |

|                                    |                                |   |     |
|------------------------------------|--------------------------------|---|-----|
| International                      | ME                             | 5 | 1.6 |
| International                      | EN                             | 3 | 4.0 |
| International                      | Applied Science and Humanities | 8 | 1.6 |
| National                           | IT                             | 3 | 0   |
| National                           | ECE                            | 1 | 0   |
| National                           | ME                             | 1 | 0   |
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department                                | Number of Publication |
|---|-----------------------|
| APPLIED SCIENCE AND HUMANITIES            | 4                     |
| ELECTRICAL AND ELECTRONICS ENGINEERING    | 19                    |
| CIVIL ENGINEERING                         | 2                     |
| MECHANICAL ENGINEERING                    | 1                     |
| ELECTRONICS AND COMMUNICATION ENGINEERING | 43                    |
| INFORMATION TECHNOLOGY                    | 17                    |
| COMPUTER SCIENCE ENGINEERING              | 2                     |
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper  | Name of Author                                  | Title of journal  | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|---|---|---|---------------------|----------------|---|---|
| Securing Information for Commercial File Sharing by Combining Raster Graphic and Vector Graphic | Rekha Kashyap, Manasvini Ganesh                 | International Journal of Engineering and Advanced Technology (IJEAT)                  | 2019                | 0              | IPEC  | 0   |
| Pervasive Online Spam Review Detection based on Ontology using Naïve                            | Alok Katiyar, Rishi Sharma, Shri Kant, YDS Arya | ICACCCN 2018 , IEEE International Conference for Advanced Computational Communication | 2018                | 4              | IPEC  | 0   |

|   |   |   |      |    |   |   |
|---|---|---|------|----|---|---|
| Bayasian" IEEE Proceeding (Scopus Index)  |   | Computing Network   |      |    |   |   |
| Time Series For ecasting to Improve Predictive Modelling in Public maternal Healthcare Data                     | Shelly Gupta, Shelinder Narayan Singh and Parsid kumar Jain | Recent Patents on Engineerin g, Bentham Science   | 2019 | 18 | Amity University  | 0 |
| Study of Computeriz ed Segment ation Clas sification Techniques : An Appli cation to Histopatho logical Imagery | Pranshu Saxena  | Informat ica, Vol. 43 (2019) Page 561-572 doi: https ://doi.org /10.31449/ inf.v43i4. 2142 (ESCI) | 2019 | 39 | Punjab Technical University   | 0 |
| A Review On Recomme ndation Systems Using Deep Learning   | Rajni Jindal, Kirti Jain                                    | Internat ional Journal of Scientific Technology Research (IJSTR)                                  | 2019 | 18 | DTU   | 0 |
| A Novel Priority- based Task Scheduling Algorithm for the Cloud Integrated Sensor Network                       | Pooja Tripathi Parul Sharma                                 | STM journal of Operating Systems De velopment Trends  | 2018 | 0  | Department of Informa tion Techn ology, Ind erprastha Engineerin g College, Ghaziabad( U.P), India. | 0 |
| Impact of Prognos tication Framework on Server Performanc e   | Monika Sainger  | Internat ional Journal of Engineerin g Research Management Technology                             | 2018 | 0  | Inderpra stha Engin eering College, G haziabad(U .P), India.  | 0 |
| Nonlinear Feature Learning  | Preeti Sharma   | Journal of Computa tional Inf ormation  | 2018 | 0  | Inderpra stha Engin eering College, G   | 0 |

|   |                 |  |      |   |  |   |
|---|-----------------|--|------|---|--|---|
| Via NLPCA Neural Networks for Breast Cancer Detection in Mammogram Database                                 |                 | Systems  |      |   | haziabad(U.P), India.                                    |   |
| A Dynamic Energy efficient Resource Allocation Scheme for Heterogeneous clouds using Bin-Packing Heuristics | Ragini Karwayun | International Journal of New Innovations in Engineering Technology | 2018 | 0 | Inderprastha Engineering College, Ghaziabad(U.P), India. | 0 |
| Data Security in Cloud Computing  | Kamal Upreti    | Journal of Communication Engineering Systems                       | 2018 | 0 | Inderprastha Engineering College, Ghaziabad(U.P), India. | 0 |

[View Uploaded File](#)

3.3.6 – 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 | Institutional affiliation as mentioned in the publication |
|---|---|---|---------------------|---------|---|---|
| Securing Information for Commercial File Sharing by Combining Raster Graphic and Vector Graphic | Rekha Kashyap, Manasvini Ganesh                 | International Journal of Engineering and Advanced Technology (IJEAT)                  | 2019                | 14      | 0   | IPEC, Ghaziabad   |
| Pervasive Online Spam Review Detection based on Ontology using Naïve                            | Alok Katiyar, Rishi Sharma, Shri Kant, YDS Arya | ICACCCN 2018 , IEEE International Conference for Advanced Computational Communication | 2018                | 2       | 28  | IPEC, Ghaziabad   |

|   |   |  |      |    |   |                  |
|---|---|--|------|----|---|------------------|
| Bayesian" IEEE Proceeding (Scopus Index)  |   | Computing Network  |      |    |   |                  |
| Time Series For ecasting to Improve Predictive Modelling in Public maternal Healthcare Data   | Shelly Gupta, Shelinder Narayan Singh and Parsid kumar Jain | Recent Patents on Engineerin g, Bentham Science                  | 2019 | 17 | 0 | Amity University |
| A Review On Recomme ndation Systems Using Deep Learning   | Rajni Jindal, Kirti Jain                                    | Internat ional Journal of Scientific Technology Research (IJSTR) | 2019 | 36 | 0 | DTU              |
| Performa nce Analysis of MSFRLS-VFF Based Real-Time Adaptive Noise Canceller with RLS and APA Algorithms using TMS3 20C6713 Processor | Vijay Kumar Gupta   | Wireless Personal C ommunicati ons                               | 2018 | 48 | 0 | IPEC, Ghaziabad  |
| Wide-Band Dual Sense Circularly Polarized Resonant Cavity Antenna for X Band Applicatio ns  | Swati Vaid  | Progress In Electro magnetics Research                           | 2018 | 32 | 3 | IPEC, Ghaziabad  |
| SIW resonator feed horn mounted compact DRA with enhanced gain for  | Pramod Kumar  | Internat ional Journal of Microwave and Wireless T echnologie s  | 2018 | 16 | 2 | IPEC, Ghaziabad  |

|   |              |  |      |    |   |                 |
|---|--------------|--|------|----|---|-----------------|
| multiband applications  |              |  |      |    |   |                 |
| Conductor Backed CPW Fed Dual Mode Excited High Gain Cylindrical Cavity DRA For Unmanned Aircraft Systems (UAS) or Drones Data-link Applications at C Band. | Pramod Kumar | IETE Technical Review-2018                       | 2018 | 25 | 2 | IPEC, Ghaziabad |
| Investigation of Compact Dielectric Monopole Antenna Integrated with 3D Printed Horn for UWB Applications   | Pramod Kumar | Journal of RF Engineering and Telecommunications | 2018 | 23 | 3 | IPEC, Ghaziabad |
| Investigation and Development of 3D Printed Biodegradable PLA as Compact Antenna for Broadband Applications   | Pramod Kumar | IETE Journal of Research                         | 2018 | 22 | 5 | IPEC, Ghaziabad |
| <a href="#">View Uploaded File</a>  |              |  |      |    |   |                 |

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

| Number of Faculty           | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | 15            | 19       | 20    | 9     |
| Presented papers            | 29            | 8        | 0     | 0     |

|                                    |   |   |   |   |
|------------------------------------|---|---|---|---|
| Resource persons                   | 3 | 4 | 1 | 0 |
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### 3.4 – Extension Activities

3.4.1 – 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/<br>collaborating agency | Number of teachers<br>participated in such<br>activities | Number of students<br>participated in such<br>activities |
|--|---|--|--|
| PMKVY  | AICTE   | 15   | 475  |
| Blood Donation   | Vardan<br>Multispeciality<br>Hospital           | 12   | 92   |
| Door to Door<br>Meetings (Swachhta)                                      | MHRD-SBSI                                       | 1  | 31   |
| Wall<br>Painting/Posters<br>(Swachhta)                                   | MHRD-SBSI                                       | 1  | 4  |
| Nukkad Natak<br>(Swachhta)   | MHRD-SBSI                                       | 1  | 17   |
| Movie Screening<br>(Swachhta)  | MHRD-SBSI                                       | 1  | 26   |
| School Level<br>Rally (Swachhta)   | MHRD-SBSI                                       | 1  | 31   |
| Awareness Campaign<br>(Swachhta)   | MHRD-SBSI                                       | 1  | 31   |
| Regarding problem<br>in villages in<br>rural area of<br>Ghaziabad Distt. | Unnat Bhart<br>Abhiyan                          | 1  | 10   |
| <a href="#">View File</a>  |   |  |  |

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students<br>Benefited |
|----------------------|-------------------|-----------------|---------------------------------|
| Nil                  | Nil               | Nil             | 0                               |
| No file uploaded.    |                   |                 |                                 |

3.4.3 – 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/Agen<br>cy/collaborating<br>agency | Name of the activity   | Number of teachers<br>participated in such<br>activites | Number of students<br>participated in such<br>activites |
|------------------------|--|--|---|---|
| Unnat Bhart<br>Abhiyan | IIT Delhi  | Regarding<br>problem in<br>villages in<br>rural area of<br>Ghaziabad<br>Distt. | 1   | 10  |

|                           |                                 |                                    |    |     |
|---------------------------|---------------------------------|------------------------------------|----|-----|
| MHRD-SBSI                 | IPEC                            | Wall Painting /Posters (Swachhta)  | 1  | 4   |
| MHRD-SBSI                 | IPEC                            | Awareness Campaign (Swachhta)      | 1  | 31  |
| MHRD-SBSI                 | IPEC                            | School Level Rally (Swachhta)      | 1  | 31  |
| MHRD-SBSI                 | IPEC                            | Movie Screening (Swachhta)         | 1  | 26  |
| MHRD-SBSI                 | IPEC                            | Nukkad Natak (Swachhta)            | 1  | 17  |
| MHRD-SBSI                 | IPEC                            | Door to Door Meetings (Swachhta)   | 1  | 31  |
| Blood Donation            | Vardan Multispeciality Hospital | Blood Donation                     | 12 | 92  |
| PMKVY                     | AICTE                           | Pradhan Mantri Kaushal Vikas Yojna | 15 | 475 |
| <a href="#">View File</a> |                                 |                                    |    |     |

### 3.5 – Collaborations

#### 3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

| Nature of activity | Participant | Source of financial support | Duration |
|--------------------|-------------|-----------------------------|----------|
| Nil                | 0           | Nil                         | 0        |
| No file uploaded.  |             |                             |          |

#### 3.5.2 – 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 | Duration To | Participant        |
|---------------------|----------------------|---|---------------|-------------|--------------------|
| Industrial Training | Summer Internship    | All Soft Solutions Services Pvt. Ltd, Noida                                     | 05/06/2018    | 30/06/2018  | ABHIJEET PANDEY    |
| Industrial Training | Summer Internship    | Nasscom Foundation Aricent  | 05/06/2018    | 30/06/2018  | AAKASH AGGARWAL    |
| Industrial Training | Summer Internship    | TSS, Noida  | 05/06/2018    | 30/06/2018  | AAKARSH SRIVASTAVA |
| Industrial          | Summer               | Nasscom   | 05/06/2018    | 30/06/2018  | MAVUDURU L         |

|   |                   |                                   |            |            |                        |
|---|-------------------|-----------------------------------|------------|------------|------------------------|
| Training                                  | Internship        | Foundation Aricent                |            |            | S LALITA               |
| Industrial Training                       | Summer Internship | IBM, Noida                        | 05/06/2018 | 30/06/2018 | AYUSH KUMAR SINGH      |
| Industrial Training                       | Summer Internship | Lysa Services (P) Ltd., New Delhi | 05/06/2018 | 30/06/2018 | HARSHIT TRIVEDI        |
| Competition, Training, Certification      | E-Yantra          | E-Yantra                          | 20/09/2018 | 18/02/2019 | 10 students/1 faculty  |
| Training, Certification, Industrial Visit | SOPRA             | SOPRA                             | 26/10/2018 | 26/10/2018 | 40 students/4 faculty  |
| Training, Workshop                        | NASSCOM           | NASSCOM                           | 26/10/2018 | 01/11/2018 | 40 students/4 faculty  |
| Training, certification                   | Infosys           | INFOSYS CAMPUS CONNECT            | 01/08/2018 | 30/05/2019 | 240 students/6 faculty |
| <a href="#">View File</a>                 |                   |                                   |            |            |                        |

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation                                   | Date of MoU signed | Purpose/Activities  | Number of students/teachers participated under MoUs |
|--|--------------------|---|---|
| Illuminate Minds Learning Resource Pvt. Ltd.   | 03/08/2018         | for Aptitude Skills Session and Personality Development Program | 814   |
| Career Launcher                                | 20/08/2018         | Mock Campus Recruitment Drive                                   | 859   |
| Advait   | 27/02/2018         | Holistic Campus Transformation Program                          | 827   |
| EFY Enterprises Pvt. Ltd.                      | 15/03/2018         | PCB circuits, Project Design                                    | 125   |
| NASSCOM  | 12/06/2018         | Training, Workshop  | 44  |
| ICT Microsoft Academy                          | 13/02/2018         | Training, Certification, Industrial Visit                       | 246   |
| Microwave research and Development Corporation | 22/05/2018         | design and develop the commercial projects                      | 3   |
| LeLogox Design Solutions Pvt. Ltd.             | 01/02/2019         | Training on Solid Works for 3rd yr. students                    | 16  |
| <a href="#">View File</a>                      |                    |   |   |

**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 development |
|--|--|
| 300  | 233.67   |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities   | Existing or Newly Added |
|--|-------------------------|
| Campus Area  | Existing                |
| Class rooms  | Existing                |
| Laboratories   | Existing                |
| Seminar Halls  | Existing                |
| Classrooms with LCD facilities   | Existing                |
| Classrooms with Wi-Fi OR LAN   | Existing                |
| Seminar halls with ICT facilities  | Existing                |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added             |
| Value of the equipment purchased during the year (rs. in lakhs)                          | Newly Added             |
| <a href="#">View File</a>  |                         |

**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 patially) | Version | Year of automation |
|---------------------------|--|---------|--------------------|
| IPEC Soft                 | Fully                                    | 15.2.1  | 2009               |

4.2.2 – Library Services

| Library Service Type | Existing |          | Newly Added |         | Total  |          |
|----------------------|----------|----------|-------------|---------|--------|----------|
|                      |          |          |             |         |        |          |
| Text Books           | 113473   | 18161120 | 1332        | 1223122 | 114805 | 19384242 |
| Reference Books      | 4232     | 725236   | 11          | 10100   | 4243   | 735336   |
| e-Books              | 10838    | 0        | 0           | 0       | 10838  | 0        |
| e-Journals           | 218      | 579345   | 359         | 661330  | 577    | 1240675  |
| Journals             | 115      | 2105076  | 108         | 4961906 | 223    | 7066982  |
| Digital Database     | 2        | 0        | 0           | 0       | 2      | 0        |
| CD & Video           | 305      | 0        | 0           | 0       | 305    | 0        |
| Library Automation   | 1        | 0        | 0           | 0       | 1      | 0        |

|                             |     |       |   |   |     |       |
|-----------------------------|-----|-------|---|---|-----|-------|
| Weeding<br>(hard &<br>soft) | 139 | 70362 | 0 | 0 | 139 | 70362 |
| <a href="#">View File</a>   |     |       |   |   |     |       |

4.2.3 – 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

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|---------------------|--------------------|---------------------------------------|-----------------------------|
| Nil                 | Nil                | Nil                                   | Nil                         |
| No file uploaded.   |                    |                                       |                             |

#### 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type     | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/GBPS) | Others |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|---------------------------------|--------|
| Existing | 1057            | 817          | 0        | 0                | 0                | 240    | 0           | 100                             | 0      |
| Added    | 45              | 45           | 0        | 0                | 0                | 0      | 0           | 55                              | 0      |
| Total    | 1102            | 862          | 0        | 0                | 0                | 240    | 0           | 155                             | 0      |

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

|                |
|----------------|
| 250 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 |
|--|--|
| Nil  | <a href="#">Nil</a>  |

#### 4.4 – Maintenance of Campus Infrastructure

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

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 671                                    | 486.67   | 779                                    | 705.82   |

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, provide link)

The comprehensive infrastructure of the College is constituted by elementary features like buildings, classrooms and playgrounds, and advanced attributes like ICT-enabled classrooms and laboratory facilities. The Institute has Civil Engineer/Administration Department that oversees the maintenance of buildings, classrooms, library, sports complex and laboratories etc. They both are accountable to the Director and function as the coordinator for efficiently organizing the workforce, maintaining duty files containing details about their individual floor - wise responsibilities, timings, leave etc. They conduct periodic checks to ensure the efficiency / working condition of the

infrastructure. They also look after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and house-keeping. The quality of drinking water is tested time-to-time. The fire extinguishers are refilled timely. Overhead water tanks are cleaned periodically. Adequate House-Keeping staff is employed to meticulously maintain hygiene, cleanliness and infrastructure in the campus so as to provide a congenial learning environment. Classrooms, Faculty Staff rooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by House-Keeping staff assigned for each floor. Wash rooms and rest rooms are well maintained. Dustbins are placed on every floor. The Green Cover of the campus is well maintained by a full time gardener. Optimum working condition of all properties/equipment in the campus is ensured through annual maintenance contracts (AMC). The AMC purview includes maintenance of Generator, Air-Conditioners, CCTV cameras and Water Purifiers. Instruments, small equipment like balance, microscope, pH meter, dissolution apparatus, mixer, hot plate are repaired time-to-time and maintained periodically. Apart from contract workers, the college has trained in-house electricians and plumbers. Lab assistants under the supervision of the System administrator maintain the efficiency of the computers and accessories. All computers and peripherals are checked by respective technical assistant for any problem. The software updates and ICT tool and internet related problems are resolved from the respective service providers. Proper inspection is done and verification of stock takes place at the end of every year. As per requirement of the maintenance of the IT equipment, the local hardware technician/service provider is called. The institute has a library chairman. The chairman follows up with the librarian and regularly monitors the library to ensure and maintain all text books, reference books, articles, competitive examination books, magazines, journals, e-magazines, e-books and e-journals. The librarian regularly updates other resources such as NPTEL, SWAYAM, and NDL. The maintenance of the reading room and stock verification of library books is done regularly by library staff. The institute has appointed a full time sports officer to look after all the sports activities. The institute has a large ground which has a separate court for Cricket, Kabbadi, Volley ball, basketball, and indoor sports arena having 3 badminton and Table Tennis courts. The institute also has a billiards hall and a separate hall to play carom and chess.

The URL for Institutional Website: <https://www.ipeec.org.in/> and The URL to Institutional Library is : <https://www.ipeec.org.in/academics/library/>

## 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 | Amount in Rupees |
|--------------------------------------|---|--------------------|------------------|
| Financial Support from institution   | Cash Prize to Meritorious Students          | 59                 | 387000           |
| Financial Support from Other Sources |   |                    |                  |
| a) National                          | PMSSS SCHOLARSHIP AND U.P.GOV'T SCHOLARSHIP | 308                | 20618090         |
| b) International                     | Nil   | 0                  | 0                |

No file uploaded.

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.,

| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved                            |
|---|------------------------|-----------------------------|--|
| Soft Skills Classes (PDP)                 | 24/07/2018             | 43                          | Crescent Systems                             |
| Aptitude Classes (PDP)                    | 24/07/2018             | 100                         | Crescent Systems / Eluminate Minds           |
| PDP                                       | 24/07/2018             | 350                         | Globe Voice                                  |
| Remedial Class                            | 01/11/2020             | 417                         | Department Level                             |
| C programming                             | 24/07/2020             | 84                          | Inhouse Faculty conducting Remedial Coaching |
| Advance C programming                     | 21/01/2019             | 84                          | Inhouse Faculty conducting Remedial Coaching |
| Personality Development-2                 | 21/01/2019             | 121                         | Globe Voice                                  |
| <a href="#">View File</a>                 |                        |                             |  |

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 | Number of students placed |
|---------------------------|--------------------|--|--|--|---------------------------|
| 2018                      | Career counselling | 0  | 859  | 0  | 498                       |
| <a href="#">View File</a> |                    |  |  |  |                           |

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 | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---|
| 0                         | 0                              | 0   |

## 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 | Number of students placed |
| Act 21, Algoworks, Amazon, Anglo Eastern, ANR Software, App Inventive, Arneacs Technologies, Broad Info, Corpor | 6834                            | 601                       | Accolite Software, Adani Gas Ltd., AGNISYS, Aimil Ltd., Ajath Infotech Pvt. Ltd., Amperes Energy, Andry | 2338                            | 124                       |

|  |  |  |  |  |
|--|--|--|--|--|
| ation,BYJUS, Calcom, Capgemini India, Cavisson Systems, Certy Box, Cognizant, Continuum Global, Crestech Software, Cvent India Pvt. Ltd., etc. |  |  | an IT, Babel Media, Cadence, Cellos Software, Circuitsutra Technologies, CMI Limited, Cobx Gaming, Cocubes Technologies, Cognixia, Compro Technologies, etc. |  |
| <a href="#">View File</a>  |  |  |  |  |

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                     | Name of programme admitted to |
|------|--|--------------------------|---------------------------|--|-------------------------------|
| 2019 | 1  | B.Tech                   | Civil                     | NICMAR, PUNE                                   | PG Diploma                    |
| 2019 | 1  | B.Tech                   | Civil                     | DTU, DELHI                                     | GEOTECHNICAL ENGINEERING      |
| 2019 | 1  | B.Tech                   | Civil                     | MANAV RACHNA UNIVERSITY                        | STRUCTURAL ENGINEERING        |
| 2019 | 1  | B.Tech                   | Civil                     | IIT GUWAHATI                                   | M.TECH                        |
| 2019 | 1  | B.Tech                   | ME                        | National Institute of Technology, Kukatshetra  | Machine Design                |
| 2018 | 1  | B.Tech                   | CSE                       | Jaypee Institute of Information And Technology | M.TECH                        |
| 2018 | 1  | B.Tech                   | ECE                       | JP Institute of Information Technology         | MBA                           |
| 2018 | 1  | B.Tech                   | ECE                       | Jaipuria Institute of Management               | PGDM                          |
| 2018 | 1  | B.Tech                   | IT                        | Bharti Vidyapeeth                              | MBA                           |

[View File](#)

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              | 19 |
| GMAT              | 1  |
| CAT               | 3  |
| GRE               | 1  |
| No file uploaded. |    |

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

| Activity                              | Level         | Number of Participants |
|---------------------------------------|---------------|------------------------|
| Solo Dancing                          | College Level | 40                     |
| Check your knoweldge Quiz Competition | College Level | 32                     |
| Debate Competition (English/Hindi)    | College Level | 30                     |
| Solo Singing                          | College Level | 36                     |
| Poetry Slam                           | College Level | 21                     |
| Rangoli                               | College Level | 52                     |
| Face Painting                         | College Level | 16                     |
| Mehndi                                | College Level | 20                     |
| T-Shirt Painting                      | College Level | 19                     |
| Creative Writing                      | College Level | 48                     |
| <a href="#">View File</a>             |               |                        |

#### 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/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number                              | Name of the student                                     |
|------|------------------------------|------------------------|-----------------------------|-------------------------------|--|---|
| 2018 | 400m. (Girls) - Gold         | National               | 1                           | Nil                           | 1603021002                                     | Akanksha Negi   |
| 2018 | Long jump (Girls) - Gold     | National               | 1                           | Nil                           | 1603021002                                     | Akanksha Negi   |
| 2018 | 100m. (Girls) - Gold         | National               | 1                           | Nil                           | 1603021002                                     | Akanksha Negi   |
| 2018 | 4x100m. Relay (Girls) - Gold | National               | 1                           | Nil                           | 1603021002, 1803010064, 1803010222, 1503031171 | Akanksha Negi, Bhumika Gupta, Swati Raman, Tijil Sharma |
| 2018 | 400m. (Boys) -               | National               | 1                           | Nil                           | 1703040015                                     | Anubhav Baliyan   |

|      |                             |          |   |     |  |   |
|------|-----------------------------|----------|---|-----|--|---|
|      | Gold                        |          |   |     |  |   |
| 2018 | High jump (Boys) - Gold     | National | 1 | Nil | 1703010014                                     | Akash Kumar   |
| 2018 | 200m. (Boys) - Gold         | National | 1 | Nil | 1703010059                                     | Dushyant Goyal  |
| 2018 | 4x400m. Relay (Boys) - Gold | National | 1 | Nil | 1703010124, 1703010014, 1603031147, 1703040015 | Piyush Srivastava, Akash Kumar Singh, Sarosh, Anubhav Baliyan         |
| 2018 | 4x100m. Relay (Boys) - Gold | National | 1 | Nil | 1703010014, 1703010124, 1703010059, 1703040015 | Akash Kumar Singh, Piyush Srivastava, Dushyant Goyal, Anubhav Baliyan |
| 2018 | Shotput (Girls) - Silver    | National | 1 | Nil | 1603010211                                     | Shubhangi Singh   |

[View File](#)

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

Activity of student council for session 2018-19 is given below:- 1. Fashion Show - 29.09.2018 2. Poetry Slam - 26.09.2018 3. Creative Writing - 12.09.2018 4. T-shirt painting, Mehndi, face painting and Rangoli - 12.09.2018 5. UDBHAV-19 - 15.03.2019 - 16.03.2019 6. CHECK YOUR KNOWLEDGE Quiz competition - 01.10.2018 7. Solo Dancing - 01.10.2018 8. English and Hindi Quiz competition - 06.03.2019 9. De Addiction Online Quiz competition - 28.03.2019. Institute strongly believes in the philosophy of participative management. Students and faculty members are given representation in the committee where their representation is required. Students are empowered to play an active role as a coordinator of students associations, co-curricular and extra curricular activities. Each department has its own technical student council/forum viz. Gentronix(ECE Forum),Genesis(CSE Forum), Trinity(IT Forum), Srijan(CE Forum) and Mechanics(Mechanical Forum). These councils are responsible for conduction of various co-curricular and extracurricular activities through out the year in their respective departments. These councils run under the leadership of the student incharge with a faculty as mentor. These forums organize various events on regular basis such as Invited talks from industry personnel, project exhibitions and competitions, Alumni talks, Hackathon etc. There also exists a student council at institute level viz. E-SAC(Expressions - Student Activity Cell)wherein students of all streams play a pivotal role in managing activities related to literary (Medha),Cultural(Nivedha), Technical(Vividha) and Sports(Spardha). Every year, fresh student organizing teams are forwarded from each department. This student council further, under the mentorship of

respective faculty conveners formulate an activity planner for the entire semester in accordance with the academic calendar of the institute. Besides this, both boys and girls mess have a proper elected mess committee headed by students who administer and monitor the various activities related to their hostel mess. They are authorized to formulate the menu by taking the consensus of other hostel inmates. There is also provision of class committee meeting which includes five students from every class. Class coordinator is the member of the committee. This committee has the representation of students from all the segments of the students on the merit basis that means one student from top five, three students from average group and one from the weak student group. In class committee interaction, different issues related to academics and infrastructure are discussed. Various issues discussed are the feedback related to course content delivery, understandability, whether the doubts are properly addressed or not, etc. On this basis, the gaps are identified and rectified. The institute has a Grievance Redressal Cell in which a few students are made a part of it wherein they are also equally given a right to put forth their opinion and suggestions. Institute has a strong Alumni association and a student council plays an important role in organizing the alumni meet annually. Following are the committees where students have been given representation: Class committee, Cultural Activities Committee, Literary Committee, Technical Committee, Mess Committee, Discipline Committee, Sports Committee and Alumni Committee

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

4134

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1

### 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 year (maximum 500 words)

Practice 1: Decentralization and participative management through Academic Committee: Academic Committee is one of the case studies to illustrate the decentralization and participative management being practiced in the institute. The objective of the Academic Committee is to take stock of the present status and deliberate on strategies, requirements and decide on the road map to achieve the vision of the institute. The Academic Committee consists of Director, Dean, HODs, Registrar and Head-HR. In the Academic committee, all the members present their views freely on various issues concerning the institute. All important issues on all aspects of the Institute are discussed there and decisions are taken considering the interest of the institute into account. Important decisions taken by the academic committee are communicated to the management of the institute. The institute has made remarkable progress in the last ten years as most of the decisions that were taken in the academic committee have been implemented successfully after consulting faculty and

students wherever required. Some of them are 1.NBA accreditation 2.NAAC accreditation 3.Establishment of centre of excellence 4.Upgradation of labs 5.Signing of MOU with different industry 6.Improvements in teaching-learning process as per the outcome based education Model. Practice 2: To provide the student with equitable technical education of the best quality: IPEC attains this goal by implementing the following conventions. • Curriculum Design: As the institution is affiliated to AKTU so don't have the liberty to design its own curriculum. Curriculum is revised by the affiliating university in every four year. Even if some gaps are there in the syllabus then those gaps are filled by adding the some content beyond syllabus in every subject. The course coordinator of the subject in the concerned department considers the feedback of students of previous batch, syllabus followed by other renowned universities, suggestions from other experts in the same area of specialization to identify the content beyond curriculum. These content beyond curriculum are properly mentioned in the lecture plan of that particular course. •Value Added Courses / Certification Courses: Courses like Python, Design Thinking, Data Science, Entrepreneurship programs, NI Lab View, Internet of things etc are also regularly conducted semester wise. Institute has also signed different MOU with the industries for different value added courses. Online certification by the students is the main focus area of the institute. The certifications in the NPTEL and Courser are continuously increasing. •Teaching Learning Process: To improve the quality of education IPEC provides strong teaching learning environment. All the courses are taught using different ICT tools to share contents like course materials, videos, ppts, quizzes etc. The teaching pedagogy of education adopted by the institution is Outcome based so the outcome are measured at every step and the gaps, if any are filled timely.

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 in 100 words each):

| Strategy Type          | Details   |
|------------------------|---|
| Curriculum Development | The institute is affiliated to the Dr. A.P.J. Abdul Kalam Technical University therefore follows the syllabus designed by the University. However, the Institution has the representation in the Board of studies of the university other faculty members give inputs in the syllabus revision process. The revision takes place in every 4 years. In addition to the syllabus we believe in holistic development of the students. We have formed IQAC for the purpose also take suggestions from Industry experts. The gaps in the curriculum are properly identified through a well-established process and filled through the content beyond syllabus. |
| Teaching and Learning  | We are following OBE methodologies five programs of the institution are accredited by NBA on outcome based. To make learning more effective we have choice-based credit system of   |

examinations. We have devised new teaching pedagogies for different category of students. The needs of advanced learner are fulfilled by different pedagogy whereas the needs of slow learner are fulfilled by another pedagogy. We ensure a perfect blend of classroom teaching ICT enabled teaching so that the students are motivated all the times. We ensure state of the art lab facilities, Computational facilities, Library also competent faculty.

Examination and Evaluation

The institution follows the rules and regulations framed by the affiliating university to conduct examination and Evaluation. The internal evaluation takes place at the institute level as per the ordinance of the university. Internal assessment tests and other measures taken to judge the performance of students is done fairly and in an effective manner. Students are allowed to go through the evaluated answer scripts of internal assessment tests and doubts regarding evaluation are cleared. Internal Test performance is intimated to the parents by the student portal/telephonically in case of satisfactory/ unsatisfactory performance.

Research and Development

- All the departments of the institute have access to well-equipped computer laboratories with adequate infrastructural facilities to carry out the research projects.
- For promoting research IPEC is the member of Nalanda e- consortium for has purchased online research journals latest resources for the faculty members.
- The Institute Central library facilitates research-oriented books, journals ejournals for research reference.
- The faculty members are encouraged to publish their research contributions in various National International Journals and conferences. For that duty leave and financial support is provided by the institute.
- The Institute encourages faculty members to pursue Ph.D programmes in reputed universities.

Library, ICT and Physical Infrastructure / Instrumentation

- Strong teaching learning environment in all the courses are designed through ICT to share contents like course materials, videos, technical presentations, quizzes etc.
- IPEC library supports teaching-learning

and research activities. It consists of central library and department libraries. Central library stores resources of all departments whereas department libraries store resources of departments. The library is kept open round the year. There is a committee called library committee that forms an interface between the teaching-learning and research communities and the library staff. • Xerox facilities, Cannon Scanners, Printing facilities available in all departments in addition to all regular infrastructures.

Human Resource Management

• The Institute organizes various orientation and enrichment programmes for both teaching and non-teaching staff members for upgrading their skills. • Salary, pay-scale and increments are given as per norms which leads to employee satisfaction. • Institute grants Medical, Casual, On Duty and Special Leave to its faculty members Non Teaching gets Medical, Causal and Earned Leave as per the norms . It also provides Maternity Leave according to norms to its female members. • Institute provide Special Leave for pursuing higher studies, attending enrichment courses/seminars/conferences/workshops and exam duties. • The faculty and staff members are entitled to avail summer and winter vacations.

Industry Interaction / Collaboration

The institute has constituted IQAC Cell it has Industry representatives for suggestions with regards to value added course other academic activities. Efforts are made to build and maintain excellent rapport with the Top Management of various organizations and Industries and forge collaborative Industry, Academia alliances. Our training placement cell continuously strives for networking with industries for placements internships. The Institute has signed MOU with many reputed companies. These MOUS are signed for mutual benefits, mainly for value added courses, Certification courses, internships, incubation centres projects.

Admission of Students

IPEC is an affiliated College of Dr. A.P.J. Abdul Kalam Technical University. The admission is done through Entrance Examination conducted

by University and based on their online admission procedure. students are admitted to Colleges based on their preferences and ranks. College is allowed to admit 15students under Management seats, which is done on the basis of percentage in 12th examination and rank in UPSEE Exam.

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

| E-governance area             | Details                    |
|-------------------------------|----------------------------|
| Planning and Development      | IPEC SOFT (VERSION 15.2.1) |
| Administration                | IPEC SOFT (VERSION 15.2.1) |
| Finance and Accounts          | IPEC SOFT (VERSION 15.2.1) |
| Student Admission and Support | IPEC SOFT (VERSION 15.2.1) |
| Examination                   | IPEC SOFT (VERSION 15.2.1) |

### 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 |
|------|-----------------------------|--|--|-------------------|
| 2018 | Mr. Bhaskar Chandra Kandpal | INTERNATIONAL CONFERENCE ON RECENT TRENDS INNOVATIONS IN-ME                | KIET, GHAZIABAD  | 2500              |
| 2018 | Mr. Devendra Kumar Gupta    | NATIONAL SEMINAR ON NANO TECHNOLOGY: OPPORTUNITIES AND CHALLENGES          | KEC, GHAZIABAD   | 500               |
| 2018 | Mr. Sanjeev Varshney        | NATIONAL SEMINAR ON NANO TECHNOLOGY: OPPORTUNITIES AND CHALLENGES          | KEC, GHAZIABAD   | 500               |
| 2018 | Mr. Firasat Hussain         | NATIONAL SEMINAR ON NANO TECHNOLOGY: OPPORTUNITIES AND CHALLENGES          | KEC, GHAZIABAD   | 500               |
| 2018 | Dr. K.C. Tripathi           | 6TH INTERNATIONAL CONFERENCE ON INNOVATIONS IN-CSE                         | GNI, HYDERABAD   | 5000              |
| 2018 | Dr. Pooja Tripathi          | WORKSHOP ON BLOCKCHAIN APP DEVELOPMENT                                     | IIT, DELHI   | 2000              |

|      |                         |   |                              |      |
|------|-------------------------|---|------------------------------|------|
| 2019 | Ms. Pooja Mishra        | Paper presented in IR-STMISD-2019,<br>TOPIC :<br>Hardware Implementation of Free Space Optical Duplex Link  | IIT, Roorkee                 | 3000 |
| 2019 | Dr. Anjali Singhal      | Paper presented in International Conference,<br>Topic Empirical Study of Test Driven Development with Scrum | IPEC,<br>GHAZIABAD           | 5000 |
| 2019 | Mr. Mohd. Qamar Tanveer | PAPPER PRESENTED IN CONFERENCE,<br>TOPIC : A NEW 3D BENCHMARKING ARTIFACT                                   | NIT, DELHI                   | 3000 |
| 2019 | Ms. Ritu Agarwal        | PAPPER PRESENTED IN INTERNATIONAL CONFERENCE,<br>TOPIC:<br>COMPUTING FOR SUSTAINABLE GLOBAL DEVELOPMENT     | BHARTI VIDYAPEETH, NEW DELHI | 5000 |

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the College 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 participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|--|---|------------|------------|---|---|
| 2019 | Workshop under PMKVY (Sandmolding)   | Nil   | 06/03/2019 | 06/03/2019 | 1                                       | 4   |
| 2019 | Mobile Broadband Transmission  | Nil   | 13/05/2019 | 17/05/2019 | 35                                      | Nil   |
| 2019 | Outcome based Education  | Nil   | 30/03/2019 | 30/03/2019 | 35                                      | Nil   |

|      |  |                                     |            |            |     |     |
|------|--|-------------------------------------|------------|------------|-----|-----|
| 2019 | Nil  | Circuit Simulation Tool using ORCAD | 12/06/2019 | 14/06/2019 | Nil | 10  |
| 2019 | Deep Learning and Applications   | Nil                                 | 27/05/2019 | 31/05/2019 | 41  | Nil |
| 2019 | Python Programming   | Nil                                 | 15/01/2019 | 20/01/2019 | 24  | Nil |
| 2018 | Big Data Analytics and High Performance Computing for Complex Problem Solving, IPEC, Ghaziabad | Nil                                 | 12/07/2018 | 17/07/2018 | 15  | 3   |
| 2018 | 8 - days FDP Universal Human Values Professional Ethics (Level 1)                              | Nil                                 | 01/12/2018 | 08/12/2018 | 52  | Nil |

[View File](#)

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, 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    | Duration |
|---|---------------------------------|------------|------------|----------|
| Digital Land Surveying - FDP  | 1                               | 03/06/2019 | 07/06/2019 | 5        |
| Twenty four hour training cum Workshop on GIS using ArcGIS ERDAS software | 2                               | 09/09/2018 | 23/09/2018 | 15       |
| Thirty Hours in House Training on Primavera                               | 2                               | 29/09/2018 | 14/10/2018 | 16       |
| Innovation and Research Areas in Science and technology                   | 7                               | 27/05/2019 | 31/05/2019 | 5        |

|  |   |            |            |    |
|--|---|------------|------------|----|
| Universal Human Values and Professional Ethics                                   | 1 | 01/12/2018 | 08/12/2018 | 8  |
| Three weeks winter training program on structural design detailing               | 1 | 17/01/2019 | 26/01/2019 | 20 |
| One day training program on Mx Road software                                     | 3 | 16/02/2019 | 16/02/2019 | 1  |
| Sustainable green manufacturing its applications                                 | 2 | 17/06/2019 | 21/06/2019 | 5  |
| Entrepreneurial Opportunity identification Project formulation in service sector | 2 | 13/05/2019 | 17/05/2019 | 5  |
| Instructional design delivery system embeded with useful art soft. Tools         | 3 | 27/08/2018 | 01/09/2018 | 5  |
| <a href="#">View File</a>  |   |            |            |    |

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

| Teaching  |           | Non-teaching |           |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent    | Full Time |
| 0         | 32        | 0            | 18        |

6.3.5 – Welfare schemes for

| Teaching   | Non-teaching   | Students   |
|--|--|--|
| Employees State Insurance, Employees Provident Fund Scheme, Employees Group Insurance, Psychological counseling, Canteen Facility, Sports Gym Facilities, Employee Assistance program such as FDP/STC/ Workshop etc., Medical Visiting Doctors Facilities, | Employees State Insurance, Employees Provident Fund Scheme, Employees Group Insurance, Psychological counseling, Canteen Facility, Sports Gym Facilities, Employee Assistance program such as FDP/STC/ Workshop etc., Medical Visiting Doctors Facilities, | Academic Excellence Award, Medclaim Facility, Psychological Counselling, Medical Visiting Doctor Facilities, Sports Gym Facilities, Fitness Classes, Cultural Activities Technical Activities, Mentor Mentee, WIFI Facility, Study Room Facility |

Summer Vacations, Winter Vacations Leave Provisions, Festival celebration, Employees engagement activities, Uniforms facilities (to class IV employees), Gifts on Festival (Diwali), Yoga classes, Air Conditioned offices to each every employees, Wi-Fi Facilities, Laptop Facilities, Phone Facilities

Summer Vacations, Winter Vacations Leave Provisions, Festival celebration, Employees engagement activities, Uniforms facilities (to class IV employees), Gifts on Festival (Diwali), Yoga classes, Air Conditioned offices to each every employees, Wi-Fi Facilities, Laptop Facilities, Phone Facilities

#### 6.4 – Financial Management and Resource Mobilization

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

The institute has a mechanism for internal and external audit. We have our own internal audit mechanism where internal audit is an ongoing continuous process in addition to the external auditors to verify and certify the entire Income and Expenditure and the Capital Expenditure of the Institute each year. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise, an external audit is also carried out on an elaborated way on a quarterly basis.

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

| Name of the non government funding agencies /individuals | Funds/ Grants received in Rs. | Purpose |
|--|-------------------------------|---------|
| Nil  | 0                             | Nil     |
| No file uploaded.  |                               |         |

6.4.3 – Total corpus fund generated

227542854

#### 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      | ISO, DNV-GL, NEW DELHI | Yes      | INTERNAL AUDITORS |
| Administrative | Yes      | ISO, DNV-GL, NEW DELHI | Yes      | INTERNAL AUDITORS |

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

- Regular attendance, marks, fee details informed to parents.
- Mentoring activities for every student and mentor is in continuous touch with the respective parents.
- Parent feedback is regularly taken through a structured form and appropriate actions are taken on the suggestion.
- Parents have representation in IQAC of the institution, so they are major stake holder in the decision making of the institute.

6.5.3 – Development programmes for support staff (at least three)

- To days Workshop on Education Sanskar • Workshop on ORCAD • Eight Days Staff Development Programme on Universal Human Values Professional Ethics

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Fetching of grants for Modernization of Lab and conduction of different events.
2. Incremental change in quality publication.
3. Incremental change in placement.

6.5.5 – Internal Quality Assurance System Details

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

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 | Number of participants |
|------|--|-------------------------|---------------|-------------|------------------------|
| 2018 | Blood Donation Camp  | 02/07/2018              | 07/09/2018    | 07/09/2018  | 92                     |
| 2019 | 3rd International Conference on ICADS-2019   | 03/10/2018              | 12/04/2019    | 13/04/2019  | 150                    |
| 2018 | Webinar on AWS Cloud   | 03/10/2018              | 29/10/2018    | 29/10/2018  | 40                     |
| 2018 | National Seminar on Advancement in RADAR Antenna                                       | 03/10/2018              | 02/11/2018    | 02/11/2018  | 136                    |
| 2019 | Training on Circuit Simulation Tool using ORCAD  | 03/10/2018              | 12/06/2019    | 13/06/2019  | 10                     |
| 2019 | Summer Training - Machine Learning with Python   | 03/10/2018              | 07/06/2019    | 21/06/2019  | 64                     |
| 2019 | 21 days Residential Summer Training Program on Network Management with Web Development | 03/10/2018              | 12/06/2019    | 02/07/2019  | 260                    |

|                           |  |            |            |            |     |
|---------------------------|--|------------|------------|------------|-----|
|                           | and Android with Core Java             |            |            |            |     |
| 2019                      | Workshop on SAK-ROBOTIX                | 03/10/2018 | 06/02/2019 | 07/02/2019 | 36  |
| 2019                      | International Conference on ICADS-2019 | 03/10/2018 | 12/04/2019 | 13/04/2019 | 150 |
| 2019                      | International Conference on ICETE 19   | 05/03/2019 | 27/04/2019 | 28/04/2019 | 150 |
| <a href="#">View File</a> |  |            |            |            |     |

## 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 during the year)

| Title of the programme        | Period from | Period To  | Number of Participants |      |
|-------------------------------|-------------|------------|------------------------|------|
|                               |             |            | Female                 | Male |
| Sankalp Sangharsh aur Siyasat | 01/12/2018  | 01/12/2018 | 295                    | 185  |

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 |
| 21.58   |

7.1.3 – Differently abled (Divyangjan) friendliness

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

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 | Number of participating students and staff |
|---|--|--|------|----------|--------------------|------------------|--|
| <b>No Data Entered/Not Applicable !!!</b> |  |  |      |          |                    |                  |  |
| <a href="#">View File</a>                 |  |  |      |          |                    |                  |  |

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

| Title                            | Date of publication | Follow up(max 100 words)  |
|----------------------------------|---------------------|---|
| CODE OF CONDUCT FOR STAKEHOLDERS | 04/07/2018          | <p>The student manual is to guide the students on rules and regulations of IPEC and helps them to navigate their journey at IPEC. The student manual contains the vital information about code of conduct and specific details for their effective and smooth interaction with the Institute and various facilities provided in the institution.</p> <p>Moreover, all the stakeholders associated with IPEC are expected to ensure the following core values:- 1. INTEGRITY 2. PRESERVERANCE 3. ENCOURAGEMENT 4. COURAGEOUS 5. TRANSPARENCY The college expects every stakeholder (STUDENTS, TEACHERS, GOVERNING BODIES ADMINISTRATION) to be responsible individuals having RIGHT UNDERSTANDING and SELF REGULATION.</p> |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity                                  | Duration From | Duration To | Number of participants |
|---|---------------|-------------|------------------------|
| <b>No Data Entered/Not Applicable !!!</b> |               |             |                        |
| <a href="#">View File</a>                 |               |             |                        |

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

|   |
|---|
| <p><b>Use of renewable energy:</b> The institute has installed Solar power plant of 100KVA and Solar Water heating system and these are used as forms of renewable energy. <b>Plastic free Campus:</b> Use of plastic bags and cups are discouraged in the campus. Even in the canteen and Mess, usage of steel plates/paper plates and paper cups are mandatory. <b>Paperless Office:</b> The Management has taken keen interest to make the office paperless. For that purpose, the institute has developed its own ERP system. This ERP system covers all the departments/sections of the institute. All the official information is communicated to the faculty as well as student through the ERP system only. The complete campus is Wi Fi enabled, making it much easier for paper less activities. <b>Green Landscaping with Trees and Plants:</b> The institute has taken several measures for planting of trees to make a Green Campus. 50 of total area is covered with trees and lawns. A number of trees exist at different places in the institute. Tree plantation in the campus is a regular activity. <b>Water harvesting:</b> The institute has established five Rain water harvesting tanks inside the premises at various locations which are connected with roof drain</p> |
|---|

pipe. During the rainy season, the water gets collected in these tanks and later it goes to the ground water to maintain the water level in the surroundings areas. Maintenance (Civil) department keeps a close watch on the cleaning and other fitting or repair related things of these tanks.

## 7.2 – Best Practices

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

**Best Practice No: 1 Title of the Practice: Segregation of Students on the basis of their Ability of Learning. Objective of the practice: To help all students to improve their overall academic performance. By exclusively working on slow learners to improve the overall passing percentage By specially focusing on high achievers to upgrade their performance with a target of securing position in AKTU merit. Context: The College works on its mission to provide an educational experience rich in theoretical foundations to each student focusing on student centric teaching. Each student has a different psychology and should be handled differently. The department provides student centric teaching keeping in view the ability of learning of each student. The Practice: Segregation of students is done as per their knowledge level, academic performance and their ability of learning. Grouping students as per their ability increases student achievement by allowing teachers to adjust the pace of instruction as per students' needs. A teacher instructs at a slower pace-providing more repetition and reinforcement-with a group of low-achieving students A class of high achievers might be given more opportunities to apply their skills in solving higher-level problems. Implementation of the Practice: The students having poor academic performance and very good academic performance are identified in the beginning of the session through tests. Special sections (Slow learners/low achievers section and high achievers section) are formed to assist these students as per their academic performance.**

In Slow learners' section, classes are conducted keeping in view the difficulties that the students are facing in learning/understanding the topic. The size of section of low achievers/slow learners is kept small so that one to one interaction can be done and difficulty of each student may be addressed. Contents/Notes specially designed for these students for making learning easy.

In high achievers' section, classes are conducted to upgrade the students' performance further and to motivate them to target for university rank. For implementation of this practice we reshuffle the sections of students twice in one academic year After one month of commencement of first semester (on the basis of class test of about 20 syllabus) In the beginning of second semester (on the basis of first semester internal performance). Evidence of Success :

Continuously Improving Result After implementation of this practice (from 2018-19 onwards) significant improvement is there in student's results. -----

| Session | 2018-19 | 2017-18 | 2016-17 | Pass Percentage |
|---------|---------|---------|---------|-----------------|
|         | 89.02   | 67.40   | 67.20   |                 |

-----  
**Problems Encountered and Resources Required** Overall no problem was encountered in implementing the practice successfully in last two years. The practice requires highly committed, dedicated and result oriented faculty members who are already available in the Department to help the students to achieve the desired outcome. But, the true identification of students who need more assistance has been a challenge this session because of online tests/classes and could be done more efficiently after the conduct of second sessional test (offline). Best

**Practice No. 2 Title of the Practice: Weekly Test System** This practice was primarily implemented to timely fill the gap in the evaluation analysis. Objective of the practice: The prime objective of the weekly test series was to enhance the student performance by timely recognizing the weak areas and fill the gap. To identify the subjects well in advance in which the student would

not be able to perform upto the mark. To work on the weak areas wherein a student is likely to perform below expectation. This is supplemented with the help of extra classes , remedial sessions, tutorials, etc. The Practice: As the institute firmly believes in the process of continuous evaluation of the students, it was observed that the conventional system could be modified to improve the result. In that system, there prevailed two sessional examinations followed by a pre-university test for each subject. Moreover, the first sessional examination is generally scheduled after one and a half month after the commencement of the classes. So, we may not be able to identify the weak students early and consequently would encounter delay to work upon them. Hence the IQAC decided to introduce weekly class test system for first year students. Under this system, a cyclic test planned for each subject was incorporated in the academic calendar since inception of each semester and displayed on college portal for all. On every Monday, the first four lecturers are dedicated to two class tests whereas in the second half, students would attend the scheduled regular classes. The major benefit of weekly test is that the subject teacher is able to identify the gaps and fill those gaps in time. Course Coverage content is also less and the student is able to focus more. Evidence of success Performance improvement in end semester examination: It was found that due to this practice there was a great impact on the student regularity, their attention towards lecture delivery and overall performance. The impact of this practice was measured on the basis of end semester result. It was observed that the result of first year prior to this practice was 63.2 , after the introduction of weekly test practice, the result escalated to 89.02 in the year 2018-19 . The institute was ranked in top colleges at university level among all affiliated colleges by AKTU . Problems encountered and resources required: Whenever a new practice is introduced, new challenges are bound to be encountered. Likewise, when this practice of weekly test was introduced, students showed a lot of reluctance as they found it hectic to follow a weekly test planner. Since their senior students were following the sessional plan in which each sessional is planned in a duration not less than a month, they comparatively felt the weekly test series to be hectic for them. But gradually they realized that this practice has somehow improved their overall performance in one or the other way. Resources required for these weekly tests is mainly the invigilating and evaluating faculties. Their workload also increased to some extent. Further the requirement of answer sheets and stationary also increased accordingly.

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

<https://www.ipeec.org.in/wp-content/uploads/Institutional-2-Best-Practices-2018-19.pdf>

### 7.3 – Institutional Distinctiveness

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

**VISION:** National Leadership in Human Resource Development, Excellence in Education and Impacting Society Through Globally Competent Technologies As per the vision of the institute, we intend to be a leader in Human resource development in the country. Institute aims to achieve this by providing quality education, taking innovative initiative and promoting the entrepreneurial sprit. The distinctive performance of the Institute which is aligned with its vision is the academic excellence by dint of teaching-learning process as the Institute would like to see itself as a leading one in engineering education and Human Resource Development as enumerated in the Vision statement. The salient features about teaching-learning process, which is considered a priority and thrust area are described below: 1. The Institute prepares its own

Academic Calendar well in advance before the start of the semester, considering the Gazetted/Restricted holidays and University schedule. It includes specific dates for conduction of two theory sessional tests,,one Pre University test, weekly Monday tests for first year, completion of syllabus, Internal Practical examinations, co-curricular extra-curricular activities, annual intercollegiate fest, sportfest, etc. In addition to traditional teaching-learning methodologies, the Faculty members adopt group discussions, relevant MOOCS Video sessions, seminars, mini projects, PPTs, real time examples,simulations, Quizzes,etc depending on the course. 2. The institute also aims at vitalizing the learning skills with a focus on futuristic demands, vitalizing teaching learning process, ICT, Human Values, and functional relationship with all the stakeholders for the holistic development of the individual and society. 3. The placement cell is an integral part of the institution which ensures that all the students are well trained and prepared to face various interviews held incampus/offcampus. The CDC keeps the students well informed about potential job opportunities and guide them from time to time. Soft skill Training is imparted to the students from their second year only. Institute has consistently maintained a placement of more than 75 percent .Various conferences, guest lectures, workshops, summits, celebrity chats are organized throughout the year . Students are encouraged to develop projects that can get funding from different funding agencies. 4. One of our MSME funded project in which cooking gas has been produced from the Sewage was appraised by the honourable Prime minister of India and got huge media coverage throughout India. 5. To bring out the concealed talents of the students, every year the institution organizes an intercollegiate technical fest named "UDBHAV" wherein the students get an opportunity to compete with their counter parts from other institutes all over NCR and Delhi. 6. The institution has fully equipped auditoriums, open theatre, seminar halls, smart classrooms, grounds for athletics, basketball, indoor badminton courts volleyball courts, billiards room and gymnasium facility for both boys and girls in their respective hostels. 7. Institute tries its level best to fulfill the need of the society by organizing different extension activities like blood donation camp activities as its contribution to the society This is how, we at IPEC try to meet the vision of the institute.

Provide the weblink of the institution

<https://www.ipec.org.in/>

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

? Efforts for NIRF Ranking ? To enhance B.Tech - First Year Result ? Strengthen ICT based teaching learning process for quality enhancement ? Efforts for skill development and innovative thinking ? Industry collaborated projects and research will be focussed ? Student support like career guidance will be enhanced ? Encourage innovative entrepreneur ideas and campus start-up