**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (PHASE - III)**

**Format- Equity Action Plan**

**Name of Institute: Government College of Technology, Coimbatore-641013.**

**Name of EAP Coordinator: Mrs.G.Ravindra Devi Revathy**

**Email Id of EAP coordinator:** [**revajai77@gmail.com**](mailto:revajai77@gmail.com)

**Mobile No. of EAP Coordinator: 9444208080**

**Annexure-II**

**Name of Department: CIVIL ENGINEERING (UG)**

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| **Sl.**  **No.** | **Activity** | **Sub-activity/Action** | **Coordinator** | **Executing agency** | **Date & duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
| 1. | Training of Teachers in subject matters and updating Technical knowledge in the latest developments | Conducting FDP | Dr.C.Meiaraj  and  Dr.S.Chithra | Department of Civil Engineering | During summer vacation 2019  One Week | Once in a Year | 1. Paper Presentation  2. Publication  3. Completing the required and planned training | Rs.2 Lakhs |
| 2. | Innovation and knowledge sharing for the benefit of faculty and students | Workshop / Guest Lecture | Dr.C.Meiaraj  Dr.S.Chithra  Prof.K.Rekha  Prof.M.Rama  Prof.S.Makesh Kumar  Prof.C.Bharathi | Department of Civil Engineering | During 2019 | Once in three months | 1. Paper Presentation  2. Publication  3. Completing the required and planned training | Rs.20,000 per workshop |
| 3. | Lecture on communication and presentation skills by faculty from Basic Science Department | Guest lecture | Faculty Advisors concerned | Department of Civil Engineering | One day - Even Sem 2019 | Once in a Year |  |  |
| 4. | To improve the communication skills and presentation of students | Weekly Technical Seminar with PPT | Faculty Advisors concerned | Department of Civil Engineering | During even semester 2018-19 | Continuous | Evaluation by faculty Advisors |  |
| 5. | To upgrade domain knowledge by faculties | Seminar/ Conference | - | - | 1 week /  2 week during 2019 | Twice in a Year | Increasing faculty participation in research | As per TEQIP Norms |

**Civil Engineering (Structures & Soils)**

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| **Sl. No.** | **Activity** | **Sub-activity/Action** | **Coordinator** | **Executing Agency** | **Date& Duration** | **Frequency** | **Indicator to measure the outcomes** | **Estimated Expenditure** |
| 1 | Improvement in Job placement of students (Item III) | Employability skill training (Action 2) | Dr.S.Sathyapriya | Er.A.Karthikeyan, Proprietor, Karthikeyan Associates, Chennai | Every Semester & 3 Hours | 6 Months | Placement Enhancement | Rs.36,000/- |
| 2 | Improvement Job placement of students (Item III) | Employability skill training (Action 2) | Dr.R.Chithra | Er.B.Kamaraj, Senior Design Engineer, Mithran Structures, Coimbatore | Every Semester & 3 Hours | 6 Months | Placement Enhancement | Rs.14,000/- |

**Name of Department: Mechanical Engineering**

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| **SI. NO.** | **Activity** | **Sub-activity/Action** | **Coordinator** | **Executing agency** | **Date & Duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
| 1. | Industrial visit by Faculty | - | Dr. M.Nataraj | ISRO etc. | During winter and summer vacation | Every six months | No. of faculty visiting the Industry | Rs. 1,00,000 for each visit |
| 2 | Training of Teachers in subject matter | Training Needs Analysis by external expert | Prof.S.Parimala Murugaveni | - | During winter and summer vacation | Every six months | No. of Faculty going to subject matter training | Rs. 4,00,000 for every 6 month  Approximately 10 faculty for each seminar |
| 3. | Pedagogy training for Teachers | Prepare FDP for pedagogy | Dr.S.Ayyappan | Engineering staff college of India hyderabad | During winter and summer vacation | Every six months | No. of Faculty going to pedagogy training | Rs. 2,00,000 for each FDP |
| 4. | Satisfaction Survey/ Feedback | To carry out satisfaction survey in training achievements | Prof.N.Vadivel | - | End of each semester | Every six months | Satisfaction survey result | NIL |
| 5. | Thematic Workshops | To conduct workshops with the help of alumni and industry personals | Prof.S.Bradeesh Moorthy | - | During January and February 2019 | Yearly | No. Of Thematic workshops organised | Rs. 2,00,000 for each workshop |
| 6. | Special efforts for placement of students | Connect alumni with the students for internship and placements | Dr.M.S.Aezhisai Vallavi | - | - | Continuous | No. Of students getting placement | Rs. 25,000 for each training programme |
| 7. | Peer learning groups of students | Develop Peer learning groups of 12 students for joint study | Mr.Rakesh Gautam | - | - | Continuous | Improvements in students performance in examinations | Rs. 10,000 for each 6 months for stationeries |

**Name of the Department: M.E Manufacturing Engineering**

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| **Sl. No.** | **Activity** | **Sub-activity/Action** | **Coordinator** | **Executing Agency** | **Date& Duration** | **Frequency** | **Indicator to measure the outcomes** | **Estimated Expenditure** |
|  | Students’ Workshop on Non Destructive Testing | Institute can invite external experts to share their experiences and ideas | Dr.M.SEKAR  Prof.R.SURENDRAN | Resource Persons invited from reputed institutions | JAN 2019 &3 days | Continuous | Number of participants attended | Rs.1,50,000 |
|  | Students’  Workshop on Composite Materials | Experts from the various Industries can be invited for the Students’ enhancing exposure | Dr.M.SEKAR  Prof.R.SURENDRAN | Resource Persons invited from Industries | FEB 2019 & 2 days | Continuous | Number of participants attended | Rs.1,00,000 |
|  | Students’  Workshop on Additive Manufacturing | Institute can invite external experts to share their experiences and ideas | Dr.M.SEKAR  Prof.R.SURENDRAN | Resource Persons invited from INSTA3D | FEB 2019 & 3 days | Continuous | Number of participants attended | Rs.1,50,000 |
|  | Faculty Development Program on Advanced Manufacturing Processes | Institute can invite external experts to share their experiences and ideas to promote research ideas among the scholars | Dr.T.SEKAR,  Prof.B.RAJESWARI | Resource Persons invited from reputed Institutions and Industries | MAR 2019 &  1 week | Yearly | Number of participants attended | Rs.2,00,000 |
|  | Industrial visits For Students | Students are able to know the recent techniques in advanced manufacturing processes. | Dr.T.SEKAR,  Prof.R.SURENDRAN  Prof.B.RAJESWARI | 1. Lakshmi Machine Works, Coimbatore.  2. PRICOL Technologies, Coimbatore  3. TAFE, Chennai.  4.Ashok Leyland | Every Month | Yearly | Number of students’ visited | Rs 50,000 |

**Name of Department: M.E Engineering Design**

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| **Sl. No.** | **Activity** | **sub-activity/Action** | **Coordinator** | **Executing agency** | **Date& duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
| 1. | Student Workshop on Project based Training | Institute can invite external experts to share their experiences and ideas | Dr.N.Nandakumar,  Dr.S.Periyasamy | Resource Person invited from reputed institutions such as IIT and NIT/Research Centre | DEC 2018 &3 days | Continuous | Number of participants attended | Rs.1,50,000 |
| 2. | Student  Workshop on Innovation and Knowledge sharing | Experts from various industries can be invited | Dr.N.Nandakumar,  Dr.S.Periyasamy | Resource Person invited from Industries | JAN 2018 & 3 days | Continuous | Number of participants attended | Rs.1,50,000 |
| 3. | Student  Workshop on Various Subject Domain | Institute can invite external experts to share their experiences and ideas | Dr.N.Nandakumar,  Dr.S.Periyasamy | Resource Person invited from reputed institutions such as IIT and NIT/Research Centre | FEB 2018 & 3 days | Continuous | Number of participants attended | Rs.1,50,000 |
| 4. | Faculty Development Program | Enhancement of recent trends in Engineering Design Area. | Dr.N.Nandakumar,  Dr.S.Periyasamy | Resource Person invited from reputed institutions such as IIT and NIT/Research Centre | MAR 2018 &  1 week | Yearly | Number of participants attended | Rs.2,00,000 |
| 5. | Professional Development program for Faculty | Enhancement of research and development activities | Dr.N.Nandakumar,  Dr.S.Periyasamy | Resource Person invited from reputed institutions/Research Centre such as IIT and NIT | APRIL 2018 &  1 week | Yearly | Number of participants attended | Rs.2,00,000 |

**Name of Department: Department of Production Engineering**

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| **Sl. No.** | **Activity** | **sub-activity/Action** | **Coordinator** | **Executing agency** | **Date& duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
|  | To provide special skills training to students with priority to the weak students | Communication and Presentation Skills | Prof. A. Sasikumar | Institution | December 2018 – 2 days | continuous | Improvement in job placement of students | 30,000/- |
|  | Entrepreneurship development | Dr. P.Ilamathi | Institution | January 2019 – 2 days | continuous | Improvement in the percentage of entrepreneurs after graduation | 30,000/- |
|  | Group discussion and Interview tips | Prof. N. Ajaymanikandan | Institution | February 2019 – 2 days | continuous | Improvement in job placement of students | 30,000/- |
|  | To give teachers opportunities to upgrade their domain knowledge | To attend FDPs, conferences and seminars | All the faculty members | Institution | February, March, May 2019 | continuous | Number of faculty participated in research/ conference and papers presented/ publication | 50,000/- |
|  | To give teachers opportunities to upgrade their domain knowledge | Conduction of FDP on “Industrial Automation” | Dr.S. Gopi | Institution | January 2019 – one week | yearly | Increased number of students transition | 3,00,000/- |
|  | Hold innovation and Knowledge Sharing Workshops yearly to improve knowledge sharing | Workshop on “Industry 4.0” | Prof. M. Sankar Kumar | Institution | March 2019 – one day | continuous | Improvement in job placement of students | 15,000/- |
|  | Special efforts for training/ internship/ placement of weak students | Mock interview for third year students | Dr.P.Ilamathi | GCT Alumni Association | February 2019 | yearly | Improvement in job placement of students | 30,000/- |
|  | Appointing Student Mentors and Faculty Advisers for Students | Appointing Student Mentors and Faculty Advisers for Students | All the faculty members | Institution | December 2018 | yearly | Increased number of students transition | Nil |

**Name of the department: Electrical and Electronics Engineering**

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| **Sl.No** | **Activity** | **Sub-activity /**  **Action** | **Coordinator** | **Executing agency** | **Date &**  **duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
| 1 | (vii)Knowledge sharing workshop | Hands on training | Dr.V.Prasanna Moorthy | ABB/  Siemens | 8.1.2019-10.1.2019  3 days | 1 year | participants attended | Rs 1,00,000 /- |
| 2 | (vii)Knowledge sharing workshop | Technical/ motivational Speech by alumni | Dr.V.Prasanna Moorthy | Alumni of GCT | 19.12.2018  1 day | Once in 3 months | participants attended | Rs 10,000 /-  (per day/ workshop) |
| 3 | (v)Training of teachers | Awareness program for teachers | Dr.Sujatha Balaraman | TCE Madurai | April / 2019  1 day | One time | Satisfaction Survey | Rs 25,000/- |
| 4 | (vii)Innovation and knowledge sharing workshop | Smart Grid | Dr.Sujatha Balaraman | Power lab Chennai | March / 2019  1 day | One time | participants attended | Rs 25,000/- |
| 5 | (vii)Innovation and knowledge sharing | Workshop on Numerical Relay | Dr.R.Rajeswari | PRDC, Bangalore | 22/2/2019 | yearly | participants attended | Rs 25,000/- |
| 6 | (vii)Innovation and knowledge sharing | Workshop on  IOT | Dr.K.Ranjith  Kumar | Pantech solution | Jan/ 2019 | yearly | participants attended | Rs 25,000/- |
| 7 | (xii)Developing peer learning of group of students for joint project | Faster Adoption And Manufacture of Electrical Vehicles | Dr.K.Yasoda  &  S.Sowkarthika | - | 01/12/2018  -  31/05/2019 | continuous | improvements in students performance | Rs 1,00,000/- |
| 8 | (xiii) Appointing Student Mentors and Faculty Advisers for Students | Assigned senior student as mentors for junior students, appointed Faculty Advisers for student mentors | All Dept. Faculty | - | For both Odd/Even Semesters | Continuous (Counseling conducted once in a week) | Reports received from mentors | - |

**Electronics and Instrumentation Engineering**

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| **S. No.** | **Activity** | **Sub-Activity/Action** | **Co-ordinator** | **Executing Agency** | | **Date & Duration** | | **Frequency** | | **Indicator to measure outcome** | | **Estimated Expenditure** | |
| 1. | Institution to improve non-cognitive and soft skills including communication and presentation skills through their wide use in curricula / project based work, and where needed, to provide special skills training to students with priority to the weak students. | Employability skill Training provider | N.Arulmozhi, AP/EIE | Private(Outside) agency  Or  CXO’s of recruiting consultancies | | 28.02.2019  (one Day) | | Continuous | | Improvement in job placement of students. | | Rs.10,000.00 | |
| 2. | Give under-qualified teachers priority in opportunities to upgrade their domain knowledge. | Deputation to seminars, conferences and presentations of research papers expenses | HoD-EIE | - | | Dec 2018-Dec 2019 | | Yearly | | Number of faculty participated | | Rs.20,000.00 | |
| 3. | Appointing student mentors and faculty advisors for students | Assign senior student as mentors for 6-8 junior students | All Faculty advisors | Self | Feb 2018 | | Continuous | | Progress in proposed activities and target achieved. | | Rs.10,000.00 | |
| 4. | Hold innovation and knowledge sharing workshops yearly to improve knowledge sharing. | Organize workshops with outside experts and alumnus | A.S. Wincy Pon Annal  & N.Arulmozhi | Self | April 2018 | | Yearly | | Number of thematic workshops organized and participants attended | | Rs.1,00,000.00 | |

**Name of Department: ELECTRONICS AND COMMUNICATION ENGINEERING**

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| **Sl. No.** | **Activity** | **sub-activity/Action** | **Coordinator** | **Executing agency** | **Date& duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
| 1. | Industrial visit by Faculty | - | Dr. V.Sumathy | BOSCH | During winter and summer vacation | Every six months | No. of faculty visiting the Industry | 1,00,000 |
| 2 | Special skills training to students with priority to the weak students | 1.Remedial classes  2.Seminar presentation in class | Ms.N.Ameena Bibi | - | During odd and even semester | Every six months | No. of students clearing subjects  No. of students getting job placement | 1,50,000 |
| 3. | Training of Teachers in subject matter | Training Needs Analysis by external expert | Dr.O.Saraniya | - | During winter and summer vacation | Every six months | No. of Faculty going to subject matter training | 2,00,000 |
| 4. | Pedagogy training for Teachers | Prepare FDP for pedagogy | Mr.S.Mathivanan | Engineering staff college of India hyderabad | During winter and summer vacation | Every six months | No. of Faculty going to pedagogy training | 75,000 |
| 5. | Thematic Workshops | To conduct workshops with the help of alumni and industry personals | Mr.S.Mathivanan | - | During January and February 2019 | Yearly | No. of Thematic workshops organised | 75,000 |
| 6. | Special efforts for placement of students | Connect alumni with the students for internship and placements | Ms.A.Anitha | - | - | Continuous | No. Of students getting placement | - |
| 7. | Peer learning groups of students | Develop Peer learning groups of 12 students for joint study | Dr.P.Deepa | - | - | Continuous | Improvements in students performance in examinations | - |

**Name of the Department: Computer Science and Engineering**

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| **S1.No** | **Activity** | **Sub-Activity /Action** | **Coordinator** | **Executing agency** | **Date & Duration** | **Frequency** | **Indicator to measure outcome** | **Estimated**  **Expenditure** |
| 1 | Give under-qualified teachers priority in opportunities to upgrade their domain knowledge | Participation in FDP on AI and Machine Learning | IIT Roorkee IIITDM Jabalpur | [Malaviya National Institute of Technology Jaipur](http://mnit.ac.in/) | 17.12.2018 to  21.12.2018 | As required | Number of faculty participated in research/conference and papers presented /publication | Rs 50,000 |
| 2 | Hold innovation and knowledge Sharing Workshops yearly to improve knowledge sharing | FDP on Internet of Things during | Dr S.Rathi | Resource persons from Reputed institutions | 11th to 17th Feb 2019  (7 days) | As required | Number of thematic workshops organized, participants attended | Rs 2,00,000 |
| FDP on Machine Learning during April 2019 | Dr K.Kumar | Resource persons from Reputed institutions | 8th to 14th April 2019  (7 days) | As required | Rs 2,00,000 |
| 3 | Special efforts for training /internship/placement of weak students | Workshop on Data Science | Dr .J.C Miraclin Joyce pamila | Resource persons from Reputed institutions | 18th to 22nd Feb 2019  (5 days) | As required | Improvement in job placement of students, especially among those with disadvantaged backgrounds. | Rs 2,00,000 |
| Workshop on Intellectual Property Rights | Dr S.Rathi | Resource persons from Reputed institutions | December 2018  ( 2 days) | As required | Rs 1,00,000 |

**Name of Department: Information Technology**

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| **Sl. No.** | **Activity** | **sub-activity/Action** | **Coordinator** | **Executing agency** | **Date& duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
|  | Provide opportunities / promote faculty to participate in research, development activities and consultancy | Attending NPTEL online courses | - | Individual | - | - | - | 1100/course |
|  | Enhanced interaction with industry | Visiting industries for skill up- gradation training | Dr.T.Purusothaman, Dr.M.Blessy Queen Mary | IT industry | Jan-2019 | yearly | - | 80000 |
|  | Conducting Professional Development Programme for faculty | Cyber-security | Mr.J.Kalidass, Mr.S.Gladson Oliver | IT, GCT | 2018-2019 | yearly | - | 100000 |
| Software Defined Networks | Mrs.R.Malavika, Mrs.C.Aswini | IT, GCT | 2018-2019 | yearly | - | 100000 |
| Python Programming | Mrs.R.Devi, Mrs.C.Aswini | IT, GCT | 2018-2019 | yearly | - | 100000 |
|  | Conduct awareness programmes for teachers of the institute about the approaches to teaching, evaluation procedures, etc., which they should address in the case of students, etc. | Pedagogy program for teachers | Dr.T.Purusothaman, Mr.S.Gladson Oliver | IT,GCT | March- 2019 | yearly | - | 50000 |
|  | * Organize training in pedagogy to help students with the following: * Special needs achieve their learning goals, * Understanding of equity and equality * Students’ rights and entitlements, i.e. non-discriminatory practices | Employability skill development training program | Mrs.T.Suguna, Mrs.M.Jeyanthi | IT,GCT | Jan -2019 | yearly | - | 50000 |

**Name of Department: INDUSTRIAL BIOTECHNOLOGY**

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| **Sl.**  **No.** | **Activity** | **Sub-activity/Action** | **Coordinator** | **Executing agency** | **Date & duration** | **Frequency** | **Indicator to measure outcome** | **Estimated Expenditure** |
| 1. | Training of Teachers in subject matters and updating Technical knowledge in the latest developments | Conducting FDP | Ms.R.Nithya  Ms.P.Saranya | Department of Industrial Biotechnology | March 11th to 17th 2019  One Week | Once in 3 months | 1. Paper Presentation  2. Publication  3. Completing the required and planned training | Rs.1.25 Lakhs |
| 2. | Innovation and knowledge sharing for the benefit of faculty and students | Workshop / Guest Lecture | Ms.K.Selvapriya  Ms.A.Annu | Department of Industrial Biotechnology | 22nd feb, 2019 | Once in 3 months | Increasing student and faculty participation in research | Rs.75,000/- |
| Workshop | Dr.J.Kiruthika  Mr.V.Rajasekar | Mar 21st-22nd,2019 |
| Industry-institute Interaction- guest lecture | Ms.S.Madhuvanthi  Ms.D.Angeline Kiruba | Feb 5th 2019 |
| 3. | Lecture on communication and presentation skills by faculty from Basic Science Department | Guest lecture | Faculty Advisors concerned | Department of Industrial Biotechnology | One day - Even Sem 2019 | Periodic(as and when required) | Evaluation by faculty Advisors |  |
| 4. | To improve the communication skills and presentation of students | Weekly Technical Seminar with PPT | Faculty Advisors concerned | Department of Industrial Biotechnology | During even semester 2018-19 | Periodic(as and when required) | Evaluation by faculty Advisors |  |
| 5. | To upgrade domain knowledge by faculties | Seminar/ Conference | Dr.V.Karthik  Mr.A.Thirunavukkarasu | - | Jan 22-23, 2019 | Periodic(as and when required) | Increasing faculty participation in research | Rs.70,000/- |
| 6. | To identify students who will require more academic support | Remedial classes for  1.Chemical reaction engineering  2.Fluid mechanics  3.Bio-chemical thermodynamics | Concern course faculty in charge | Department of Industrial Biotechnology | Even semester 2019 | continuous | Increase in pass percentage of students |  |
| 7. | Appointing student mentors and faculty advisers for students | Mentors are appointed for every 15 students.  FA-parents meeting are conducted as and when required | Faculty members of Industrial Biotechnology | Department of Industrial Biotechnology | Semester wise | continuous | Student progress through mentors report |  |

**Name of Department: Science and Humanities**

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| **S1.No** | **Activity** | **Sub-Activity /Action** | **Coordinator** | **Executing agency** | **Date & Duration** | **Frequency** | **Indicator to measure outcome** | **Estimated**  **Expenditure** |
| **1** | Remedial Classes for First year students | Programming in C, Mathematics, Chemistry & Basics of EEE | Chief Faculty Advisor | Faculties of Concern department | First & Second week of December | After the Unit test | Improvement in students pass percentage | - |

Estimated Expenditure for the Equity Action Plan 2018-2019 is Rs.51,30,000/-