**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**

**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 andDr.S.Chithra | Department of Civil Engineering | During summer vacation 2019 One Week | Once in a Year  | 1. Paper Presentation2. Publication3. 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.MeiarajDr.S.ChithraProf.K.RekhaProf.M.RamaProf.S.Makesh KumarProf.C.Bharathi | Department of Civil Engineering | During 2019 | Once in three months | 1. Paper Presentation2. Publication3. 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 monthApproximately 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.SEKARProf.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.SEKARProf.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.SEKARProf.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.SURENDRANProf.B.RAJESWARI | 1. Lakshmi Machine Works, Coimbatore.2. PRICOL Technologies, Coimbatore3. 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. | StudentWorkshop 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. | StudentWorkshop 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 | 8.1.2019-10.1.20193 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 | 19.12.20181 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 / 20191 day | One time  | Satisfaction Survey  | Rs 25,000/- |
| 4 | (vii)Innovation and knowledge sharing workshop  | Smart Grid  | Dr.Sujatha Balaraman | Power lab Chennai  | March / 20191 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 onIOT | Dr.K.RanjithKumar | 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) agencyOrCXO’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 classes2.Seminar presentation in class | Ms.N.Ameena Bibi | - | During odd and even semester | Every six months | No. of students clearing subjectsNo. 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 RoorkeeIIITDM Jabalpur | [Malaviya National Institute of Technology Jaipur](http://mnit.ac.in/) | 17.12.2018to 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.NithyaMs.P.Saranya | Department of Industrial Biotechnology | March 11th to 17th 2019One Week | Once in 3 months  | 1. Paper Presentation2. Publication3. 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.SelvapriyaMs.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.KiruthikaMr.V.Rajasekar | Mar 21st-22nd,2019 |
| Industry-institute Interaction- guest lecture | Ms.S.MadhuvanthiMs.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.KarthikMr.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 engineering2.Fluid mechanics3.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/-