**IV B.Tech Major Projects - List**

**Batch 2016- 20 Academic Year: 2019-20 – II Semester Regulations: AR16**

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| S.No | Batch | Roll no. | Roll Number | Title Of The Project | Project guide | Place of work | Project Type | Facotrs Considered | Mapping with Pos and PSOs | |
| PO | PSO |
| 1 | A1 | 16R11A0420 | K Greeshma | Breast Abnormality Classification Using Shape And Texture Feature | Dr.S. Spandana | GCET | Research | safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1,PSO2 |
| 2 | 16R11A0424 | K Savitha Vaishnavi |
| 3 | 17R15A0411 | C Prashanth |
| 4 | A2 | 16R11A0406 | C Loknath | RFID And GSM Based Automatic Rationing System | Prof. OPVR siva Kumar | GCET | Application | cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1,PSO2 |
| 5 | 16R11A0401 | A Anoohya |
| 6 | 16R11A0416 | G Mounika |
| 7 | A3 | 16R11A0426 | M Vineeth Raj | Iot Based Smart Health Care Monitoring System | Prof. OVPR siva Kumar | GCET | Application | safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1,PSO2 |
| 8 | 16R11A0439 | V Soumya Reddy |
| 10 | A4 | 16R11A0444 | N Anjali | Design And Simulation Of Bowtie Antenna | Mr. RVNR Suneel Krishna | GCET | Research | cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1PSO2 |
| 11 | 16R11A0438 | Vaishnavi Varma |
| 12 | 16R11A0404 | K Shivani |
| 13 | A5 | 16R11A0427 | M Eswar Hemanth | Aurdino Based Smart Black Board Cleaner | Prof. OPVR siva Kumar | GCET | Product | cost and safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 14 | A6 | 16R11A0423 | K Mahathi | Radar Tracked Design Using Alpha-Beta Filter | Prof. Leela Prakash | GCET | Research | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 15 | 16R11A0436 | V Anil Kumar |
| 16 | 16R11A0409 | Ch Sudeeksha |
| 17 | A7 | 17R15A0402 | E Pooja | Implementation Of 16-Bit Vedic Multiplier Using Various Parallel Prefix Adders | Mr. Anand | GCET | Application | cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1, PSO2 |
| 18 | 16R11A0435 | V Deepthi |
| 19 | 16R11A0434 | Sumanth Pal |
| 20 | A8 | 17R15A0406 | P Sai Kumar | Broad Band Printed Slot Antenna For 5G Mobile And Wireless Communication | Ms. A. Sowjanya | GCET | Research and Application | cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 21 | 17R15A0405 | V Bhanu Prakash |
| 22 | 16R11A0407 | Sai Teja |
| 23 | A9 | 16R11A0414 | Gssrl Prasuna | Design Of A Fractal Antenna For Satellite Navigation | Ms. A. Sowjanya | GCET | Research | cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1PSO2 |
| 24 | 16R11A0421 | K Sai Dikshith |
| 25 | 16R11A0443 | Sarvindh Reddy |
| 26 | A10 | 16R11A0445 | P Praneeth Sai Kumar Reddy | Night Vision Patrolling Robot Using Raspberry Pi | Mr.Sandeep | GCET | Application | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 27 | 16R11A0411 | D Sharon Lilly |
| 28 | 16R11A0431 | Sai Phaneendra |
| 29 | A11 | 15R11A04L9 | M Vishal | Smart Box For Parcel Delivery Collection Using Aurdino | Mr. Chandra Prakash | GCET | Application | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 30 | 17UP5A0401 | I Sangeetha |
| 31 | 17R15A0408 | Vamsi Krishna |
| 32 | A12 | 16R11A0415 | Gn Satya Sai | Search And Rescue Robort For Victims Of Earth Quake And Other Natural Calamities | Mr. Chandra Prakash | GCET | Application | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 33 | 17R15A0410 | Venkata Ravali |
| 34 | 16R11A0403 | B Vishal |
| 35 | A13 | 16R11A0441 | V Praneeth | Automatic Identification Of Brain Tumor Using Neural Network In MATLAB | Mr. B.Ramu | GCET | Research | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1PSO2 |
| 36 | 16R11A0432 | Shreedha |
| 37 | A14 | 16U51A0476 | G Sai Pooja | Touch Screen Based Advanced Menu Display And Odering System For Restaurants | Prof. B. L. Prakash | GCET | Application | Cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 38 | 16R11A0446 | Khaled Ali Ahmed |
| 39 | 16R11A0428 | Snehitha |
| 40 | A15 | 17R15A0404 | Pavani | Detection Of Glucoma Using Image Processing | Mr. B. Ramu | Pantech solutions | Research | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 41 | 16R11A0402 | Akshitha |
| 42 | 16R11A0425 | M Pratyusha Reddy |
| 43 | A16 | 16R11A0410 | D Vijaya Laxmi | Pulse Compression Using Ambiguity Function | Prof. B. L. Prakash | GCET | Research | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 44 | 16R11A0417 | J Sai Prasanna |
| 45 | 17R15A0409 | K Rajshekhar |
| 46 | A17 | 16R11A0430 | Ramesh Suthar | Detection Of Diabetic Retinopathy Using Algorithms Of Image Processing | Ms. S. Krishna Priya | GCET | Research | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 47 | 16R11A0442 | Anish Kumar |
| 48 | 16R11A0422 | Sai Shubhang |
| 49 | A18 | 17R15A0407 | B Ganga | Image Segmentation In Biomedical Application Usingwater Shed Transform | Ms. S. Krishna Priya | GCET | Review | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1PSO2 |
| 50 | 17R15A0401 | K Pavan Kalyan |
| 51 | 17R15A0412 | Anusha |
| 52 | A19 | 16R11A0408 | Ch Anuhya | Design Of Discone Antenna | Mr. Ch. Suresh | GCET | Application | Cost | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 53 | 16R11A0413 | D Vaishnavi |
| 54 | 16R11A0437 | V Nithya |
| 55 | A20 | 16R11A0429 | P Anil Kumar | Dft Enabled Wending Machine | Prof. OVPR siva Kumar | Hysock Technologies | Application | Safety | PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 | PSO1 PSO2 |
| 56 | 16R11A0447 | Vinay Kumar |
|  | Coordinator | |  | Prof. In Charge |  | Overall coordinator | Overall coordinator | Overall coordinator | |  |
|  | Dr. V. Satya Srinivas | |  | Dr. B. L .Prakash |  | Dr. C. V. Narasimhulu | Dr. C. V. Narasimhulu | Dr. C. V. Narasimhulu | |  |

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| **Major Project\_ Type\_Catagory details of IV Year II Sem -ECE-B Section A.Y:2019-20** | | | | | | | | |
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| Batch | Roll N0 | Name of the Guide | Title of the Project | Place of work | Project Type: | Factors Considered (Environment/ safety/ethics/ cost) | Mapping with POs | Mapping with PSOs |
| B1 | 15R11A04M4 | Mr. M.Krishna | Design of Automatic Crop Protecting Robot | GCET | Product | Environment | PO1,PO3,PO4,PO6,PO7,PO9 | PSO1 |
| 16R11A0460 |
| 16R11A0491 |
| B2 | 16R11A0461 | Ms. G. Sreelakshmi | Autonomous fire extingush robot with fire detection | Arunodaya Institute | Product | Safety | PO1,PO3,PO4,PO5,PO6,PO8,PO11 | PSO1 |
| 16R11A0471 |
| 17R15A0418 |
| B3 | 16R11A0494 | Mr. Ch.Sandeep | RFID based automatic book identifier for library | GCET | Product | Cost | PO2,PO3,PO6,PO7,PO8 | PSO1 |
| 17R15A0416 |
| 16R15A0413 |
| B4 | 16R11A0451 | Ms. B.Sreelatha | Design of bionic ARM for handicapped people | Arunodaya Institute | Application | Ethics | PO1,PO2,PO3,PO4,PO5,PO6,PO8 | PSO1 |
| 16R11A0482 |
| 16R11A0487 |
| B5 | 15R11A04J4 | Prof. K.Somasekhara Rao | Robot for Indoor survelliance | Arunodaya Institute | Product | Safety | PO1,PO3,PO4,PO5,PO6,PO8,PO11 | PSO1 |
| 16R11A0480 |
| 16R11A0490 |
| B6 | 16R11A0457 | Mr Ch Sandeep | Object sorting robot ARM based on colour sensing | Arunodaya Institute | Product | Environment | PO1,PO3,PO4,PO6,PO7,PO9 | PSO1 |
| 16R11A0458 |
| 16R11A0483 |
| B7 | 16R11A0449 | Prof. K.Somasekhara Rao | Implementation of an automatic pick and place robot using Arduino | Arunodaya Institute | Product | Safety | PO1,PO3,PO4,PO5,PO6,PO8,PO11 | PSO1 |
| 16R11A0453 |
| 16R11A0489 |
| B8 | 16R11A0465 | Dr S Spandana | Automatic license plate detection and character recognition using image processing techniques | GCET | Application | Safety | PO1,PO3,PO4,PO6 | PSO1 |
| 16R11A0496 |
| 16R15A0417 |  |
| B9 | 16R11A0455 | Mr. A.Shankar | Sign to speech conversion using smart glove | GCET | Product | Ethics | PO1,PO2,PO6,PO7 | PSO1 |
| 16R11A0492 |
| 17R15A0421 |
| B10 | 16R11A0463 | Ms. M.Laxmi | Design and implementation of surveillance robot with face detection using image processing and Rasberry PI | GCET | Product | Ethics | PO1,PO2,PO6,PO7 | PSO1 |
| 16R11A0464 |
| 16R11A0466 |
| B11 | 16R11A0468 | Dr. CV Narasimhulu | A fully automated lawn mower using solar energy | GCET | Product | Environment | PO1,PO3,PO4,PO6,PO7,PO9 | PSO1 |
| 17R15A0415 |
| 17R15A0413 |
| B12 | 15R11A04M1 | Prof. K.Somasekhara Rao | Monitoring the traffic and detection of theft vechicle along with automatic challan alert | Arunodaya Institute | Product | Safety | PO1,PO2,PO6 | PSO1 |
| 16R11A0459 |
| 17R15A0417 |
| B13 | 16R11A0450 | Prof Bhujanga Rao | Design and Implementation of Driver Assisting system for Vehicle | Arunodaya Institute | Product | Safety | PO1,PO2,PO6 | PSO1 |
| 17R15A0419 |
| 17R15A0422 |
| B14 | 16R11A0472 | Ms. G. Sreelakshmi | Design and Development of boat which detects and destroys enemy boat | Arunodaya Institute | Product | Safety | PO1,PO2,PO6 | PSO1 |
| 16R11A0473 |
| 16R11A0481 |
| B15 | 16R11A0452 | Dr.Valli Sree | Implementation of BIST using GDI technology | GCET | Research Review | Cost | PO2,PO4,PO5,PO9,PO12 | PSO2 |
| 16R11A0470 |
| 16R11A0488 |
| B16 | 16R11A0467 | Mr. Ch.Sandeep | IOT and GSM based smart energy meter | GCET | Product | Cost | PO2,PO3,PO6,PO7,PO8 | PSO1 |
| 16R11A0469 |
| 16R11A0475 |
| B17 | 16R11A0462 | J. Mrudula | Android phone controlled voice gesture and touch screen operated wheel chair. | GCET | Product | Safety | PO1,PO2,PO6 | PSO1 |
| 16R11A0484 |
| 16R11A0495 |
| B18 | 16R11A0456 | Mr. Ch.Sandeep | Accident avoiding and alerting system | GCET | Product | Safety | PO1,PO2,PO6 | PSO1 |
| 16R11A0493 |
| 17R11A0420 |
| B19 | 16R11A0474 | B. Sree Latha | Smart extension card using node mcu | GCET | Product | Cost | PO2,PO3,PO6,PO7,PO8 | PSO1 |
| 16R11A0476 |
| 16R11A0485 |
| B20 | 16R11A0478 | Mr. M.Anand | Face Monitoring attendance management system | GCET | Application | Safety | PO1,PO2,PO6 |  |
| 16R11A0479 |  |  |
| B21 | 15R11A04C0 | M. Laxmi | Implementation of waste segregator using Arduino | Arunodaya Institute | Application | Safety | PO1,PO2,PO6 | PSO1 |
| 16R11A0486 |

**IV Year – Section C**

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| **S.No** | **Batch No.** | **Roll Number** | **Title of the project** | **Name of the Project guide** | **Place of work** | **Project Type: (Application/ Product/ Research/ Review)** | **Factors Considered (Environment/ Safety/ Ethics/ Cost)** | **Mapping with Pos** | **Mapping with PSOs** |
| C1 | 16R11A04A7 | Ch.Satya Kiran | Class Agnostic Image Common Object Detection | Dr. RS. Raju | AMBEST | Research/ Application | safety | PO1,PO2,PO7,PO9,PO10,PO11,PO12 | PSO1,PSO2 |
| 16R11A04D4 | T.Ajay Naveen |
| 16R11A04C2 | M.Hari Prasad |
| C2 | 16R11A04E0 | V Chandana | Analog MIMO Radio-Over-Copper Downlink With OFDM for Multi User 5G Indoor Deployments | V. Sirisha | AMBEST | Application | Environment | PO1,PO2,PO3,PO5,PO6,PO8,PO10,PO11,PO12 | PSO2 |
| 15R11A0469 | Neeraj Paul |
| 17R15A0425 | M. Rajasri |
| C3 | 16R11A04A0 | A Suchita | Anchor Cascade For Efficient Face Detection | B. Suneetha | AMBEST | Research/ Application | safety | PO1,PO2,PO7,PO9,PO10,PO11,PO12 | PSO1,PSO2 |
| 17R15A0423 | V Sandeep Reddy |
| 15R11A0478 | J Bhargav Rosham |
| C4 | 16R11A04B5 | J. Karthik | Thermal Transient Analysis of Solenoid Using ANSYS Analytical Formulations | Dr. RS. Raju | GCET | Application | Environment | PO1,PO2,PO3,PO5,PO6,PO8,PO10,PO11,PO12 | PSO2 |
| 16R11A04B6 | K. Raju |
| 16R11A04A9 | E. Naveen Kumar |
| C5 | 16R11A04B3 | H. Varun | Minimum Mean Square Error and Zero Forcing Receivers Model Implementation Using Massive MIMO | B. Suneetha | GCET | Application | Environment | PO1,PO2,PO4,PO5,PO7,PO9,PO10,PO11,PO13 | PSO1 |
| 16R11A04A3 | B.V. Prateek |
| 17R15A0430 | N. Vinay Kumar |
| C6 | 16R11A04C4 | M.Sanjay | Building Own NOAA Weather Satellite Receiving Station Station Using Software Defined Radio | V. Sirisha | 5G Tech Solutions | Application | Environment | PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO10,PO11,PO13 | PSO1 |
| 16R11A04C1 | L.Shravan |
| 16R11A04A2 | Vamsi Krishna |
| C7 | 16R11A04C0 | K. Karthik | Face Detection And Recognition System Using Matlab | Dr. P. Vijai Bhaskar | GCET | Research/ Application | safety | PO1,PO2,PO7,PO9,PO10,PO11,PO12 | PSO1,PSO2 |
| 16R11A04A6 | C. Rajesh |
| 16R11A04B7 | K.Venkat Reddy |
| C8 | 16R11A04E3 | A .V.S. Raghuveer | 5G Channel Modeling Using NYUSIM | Dr Satya Srinivas | GCET | Application | Environment | PO1,PO2,PO4,PO5PO7,PO9,PO10,PO11,PO13 | PSO1 |
|
| 16R11A04C6 | N. Abinav |
| C9 | 17R15A0429 | N.Moulika | Autonumos Drone with live Video feed using GPS | Dr. S Saritha | GCET | Product/ Application | Environment | PO1,PO2,PO3,PO5,PO6,PO8,PO9,PO10,PO11,PO12 | PSO1,PSO2 |
| 16R11A0499 | A.Rahul |
| 17R15A0424 | R.Bhaskar |
| C10 | 16R11A04D6 | P.Vamshi Krishna | Circularized Polarized Conical Beam Microstrip Patch Antenna At S-Band | P. Naresh Kumar | GCET | Application | Environment | PO1,PO2,PO3,PO5,PO6,PO11,PO12 | PSO2 |
| 16R11A04D0 | S.Saiguru Kiran |
| 16R11A04B1 | G. Gautham |
| C11 | 16R11A04D7 | V.H.R. Srikar | Simulation of Magnetic Fields of Electron Beam Focusing System Using Matlab And CST-MW Studio | Dr. RS. Raju | GCET | Application | Environment | PO1,PO2,PO3,PO5,PO6,PO11,PO12 | PSO2 |
| 16R11A04B2 | G.Vamshi Krishna |
| 15R11A0438 | N. Avinash |
| C12 | 16R11A04E1 | K. Ashish | IoT Based Weather Logger System Using Raspberry Pi | B Ramu | GCET | Product/ Application | cost | PO1,PO3,PO5,PO7,PO8,PO9,PO10,PO11,PO12 | PSO2 |
| 16R11A04B0 | E. Nagaiah |
| 16R11A04C9 | M.Raja Vamshi Krishna |
| C13 | 16R11A04E2 | K.Himasri | Design And Simulation of Planar Yagu-Uda Antenna Array Based on Split Ring Resonators(SRRS) Using HFSS Software | P. Naresh Kumar | GCET | Application | safety | PO1,PO2,PO3,PO5,PO6,PO11,PO12 | PSO2 |
| 16R11A04C8 | P.Sai Teja |
| 15R11A0416 | J.Vignesh |
| C14 | 16R11A04A5 | B.Shanmukha Vamshi | 5G Localization Using Non Line Off-Sight Components | Dr.V.Satya Srinivas | GCET | Application | safety | PO1,PO3,PO4,PO5,PO7,PO8,PO9,PO10,PO12 | PSO1,PSO2 |
| 16R11A04E4 | M.Praneetha |
| 15R11A0443 | O.Ajay |
| C15 | 16R11A04D9 | R.Sowmya | Coverage Analysis For Millimetre Wave Cellular Networks With Imperfect Beam Alignment | J. Mrudula | GCET | Application | Environment | PO1,PO3,PO5,PO7,PO8,PO9,PO10,PO11,PO12 | PSO2 |
| 16R11A04C3 | M.Tejaswi |
| 16R11A04D5 | V.Venu Kumar |
| C16 | 16R11A04A1 | A Varsha | Modified Wilkinson Power Divider For *n*th Harmonic Suppression | Ch. Suresh Kumar | GCET | Application | Environment | PO1,PO2,PO3,PO5,PO6,PO11,PO12 | PSO2 |
| 16R11A04C7 | Naveen singh |
| 16R11A04D3 | T . Harish |
| C17 | 16R11A04B4 | J. Divya | Design And Performance Evaluation Of 5G New Ratio Physical Layer | Dr. P. Vijai Bhaskar | 5G Tech Solutions | Application | Environment | PO1,PO3,PO4,PO6,PO8,PO12 | PSO1,PSO2 |
| 16R11A04D8 | Y. Manasa |
| C18 | 16R11A0497 | A. Kaushik | Fast GPS Signal Acquisition Implementation In Matlab For SDR Approach | Dr.V.Satya Srinivas | Silicon labs | Application | Environment | PO1,PO2,PO3,PO4,PO6,PO8,PO12 | PSO1 |
| 16R11A0498 | A. Badrinath |
| 16R11A04B9 | K. Harika |
| C19 | 16R11A04A8 | D. Vijay Kumar | 4G LTE using VOIP Techonology for communication | Dr. P. Vijai Bhaskar | GCET | Research/ Application | Environment | PO1,PO2,PO3,PO5,PO6,PO11,PO12 | PSO1,PSO2 |
| 16R11A04B8 | A. Prasad |
| C20 | 16R11A04C5 | N. Akhil | Design and Simulation Of The Series-FED Microstrip Antenna Arrays | RVNR. Suneel Krishna | GCET | Application | Environment | PO1,PO2,PO3,PO5,PO6,PO11,PO12 | PSO2 |
| 16R11A04D2 | A.Srinija |
| C21 | 16R11A04D1 | A.Sri Nitya | Design and Verification of Vending Machine Logic | O V P R Siva kumar | Internship | Product /Application | cost | PO1,PO2,PO3,PO4,PO6,PO8,PO12 | PSO1.PSO2 |

**IV Year – Section - D**

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| Batch N0 | Roll N0 | Name of the Guide | Tiltle Of The Project | Place of work | Project Type | Factors Considered | Mapping with POs | Mapping with PSOs |
| **D1** | 16R11A04H0 | V. Savithri Padma Priya | Steganography Using Image Processing | S.V MATLAB Solutions | Application | Ethics/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO8,PO9, PO10,PO11,PO12 | PSO1, PSO2 |
| 16R11A04J3 |
| 16R11A04K2 |
| **D2** | 16R11A04H7 | V. Savithri Padma Priya | Assistance For Speech And Hearing Impaired People By Gestures Using Raspberrypi | Arunodaya Technologies | Product | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO7,PO8,PO9, PO10,PO11,PO12 | PSO1, PSO2 |
| 16R11A04G0 |
| 16R11A04G1 |
| **D3** | 16R11A04F3 | A. Subramanyam | 2d Robotic Plotter | GCET | Product | Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04G3 |
| 16R11A04F7 |
| **D4** | 16R11A04G6 | M. Uma Rani | Autonomous Camera Based Eye Control Wheel-Chair Using Raspberry-Pi | SOOXMA Technologies | Product | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO7,PO8,PO9, PO10,PO11,PO12 | PSO1, PSO2 |
| 16R11A04H3 |
| 17R15A0431 |
| **D5** | 16R11A04G5 | M. Uma Rani | Ecg Signal Acquisition Using Three Lead Electrodes | GCET | Product | Safety/Cost/Environment | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04F2 |
| 16R11A04F0 |
| **D6** | 16R11A04J2 | Dr.S. Suryanarayana | Autonomous Maze Solving Robot Using Arduino | Arunodaya Technologies | Application | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO8,PO9, PO10,PO11,PO12 | PSO1, PSO2 |
| 16R11A04J5 |
| 16R11A04F5 |
| **D7** | 16R11A04F1 | Dr.S. Suryanarayana | Security Alarm Using Arduino | Arunodaya Technologies | Product | Safety | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04G4 |
| 16R11A04F9 |
| **D8** | 16R11A04G8 | Dr.S. Suryanarayana | Vehicle Number Plate Recognition Using Raspberry Pi | Arunodaya Technologies | Application | Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO8,PO9, PO10,PO11,PO12 | PSO1, PSO2 |
| 16R11A04G7 |
| 16R11A04F6 |
| **D9** | 16R11A04K1 | M. Sowjanya | Agri-Robot 4 In 1 Mechanism Using Arduino And Bluetooth | Arunodaya Technologies | Product/Application | Safety/Environment/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO8,PO9, PO10,PO11,PO12 | PSO1, PSO2 |
| 17R15A0435 |
| 16R11A04E5 |
| **D10** | 17R15A0434 | M. Sowjanya | Fruit Picking Farming Robot | Arunodaya Technologies | Product/Application | Safety/Environment/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO8,PO7, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04H5 |
| 16R11A04J0 |
| **D11** | 16R11A04H2 | S. Jyothirmayee | Movable Road Divider For Organized Vehicular Traffic Control With Monitoring Over Internet Of Things(Iot) | Arunodaya Technologies | Application | Cost/Safety/Environment | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 166M1A0430 |
| 16R11A04E8 |
| **D12** | 16R11A04H4 | S. Jyothirmayee | Zigbee Based Wireless Robot For Defence Camp | Ambest Technologies,Dilsukhnager | Product | Cost/Safety/Environment | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04J7 |
| 16R11A04F4 |
| **D13** | 16R11A04E7 | Y. Naga Lakshmi | Implementation Of Automatic Robot For Indoor Surveillance | SOOXMA Technologies | Product | Safety/Cost/Environment | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04G9 |
| 15R11A04C6 |
| **D14** | 16R11A04E6 | M. Krishna | Robotic Arm Control Using Arduino | Arunodaya Technologies | Product | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 17R15A0432 |
| 16R15A0403 |
| **D15** | 16R11A04J1 | A. Subramanyam | Hovercraft Using Arduino | Nano Projects | Product/Application | Environment | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04G2 |
| 15R11A0423 |
| **D16** | 16R11A04H1 | Y. Naga Lakshmi | Humans Safety Patrolling Robot | Arunodaya Technologies | Product | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04H6 |
| 17R15A0433 |
| **D17** | 16R11A04K0 | D. Venkatrami Reddy | Implementation Of Driverless Auto Metro Train Using Arduino | GCET | Application | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04E9 |
| 15R11A0436 |
| **D18** | 16R11A04J4 | D. Venkatrami Reddy | Implementation Of War Field Spy Robot With Night Vision Wireless Camera | Arunodaya Technologies | product | Safety/Environment/cost | PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04J8 |
| 15R11A04B5 |
| **D19** | 16R11A04J9 | B. Hari Kumar | Soldier Health Monitoring And Position Tracking System | GCET | product | Safety/Cost | PO1,PO2,PO3,PO4, PO5,PO6PO7,PO8, PO9,PO10,PO11, PO12 | PSO1, PSO2 |
| 16R11A04H8 |

**IV Year – Section E**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Batch N0 | Roll N0 | Name of the Guide | Title of the Project | Place of work | Project Type: (Application/ Product/ Research/ Review) | Factors Considered (Environment/ safety/ethics/ cost) | Mapping with POs | Mapping with PSOs |
| **E1** | 16R11A04N1 | B. Mamatha | Design of 8-bit DADDA multiplier | GCET | Research | cost | 2,4,5,8,9, 10,11 | 1,2 |
| 16R11A04L1 |
| 16R11A04N2 |
| **E2** | 16R11A04L4 | P. Sudhakar | Smart Glasses | GCET | Product | safety and cost | 3, 4,5.6,7,8,9,10,11 | 1,2 |
| 16R11A04L5 |
| 17R15A0446 |
| **E3** | 16R11A04N7 | P. Sudhakar | Converting regular home into smart home |  | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04K3 |  |
| 16R11A04P8 |  |
| **E4** | 16R11A04K8 | U. AppalaRaju | Automatic border alert system for fishermen using GPS and GSM techniques |  | Product | safety and environment | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04N4 |  |
| 17R15A0448 |  |
| **E5** | 16R11A04N6 | U. AppalaRaju | Development of passive reconfigurable triple-wideband antenna for LTE tablet computers |  | research | cost | 1,2, 3,4,5,8,9,10,11 | 1,2 |
| 16R11A04K5 |  |
| 16R11A04N8 |  |
| **E6** | 16R11A04K6 | R.Odaiah | Implementation of smart robot in agriculture field |  | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 17R15A0440 |  |
| 17R15A0443 |  |
| **E7** | 16R11A04M2 | R.Odaiah | Implementing a hand movement based home automation system using SPARTAN6 FPGA |  | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 17R15A0442 |  |
| 17R15A0445 |  |
| **E8** | 16R11A04M1 | M. Krishna Chaitanya | Multi- functional wireless robot for military applications using Arduino, solar and Zigbee technology |  | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04L7 |  |
| 16R11A04L3 |  |
| **E9** | 16R11A04P4 | M. Krishna Chaitanya | Developing a safety mechanism for vehicles | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04K7 |
| 16R11A04N0 |
| **E10** | 16R11A04K4 | Dr. S. Saritha | Development of Automated Brain Tumor Identification using MRI images | GCET | application | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04P9 |
| 17R15A0447 |
| **E11** | 16R11A04L2 | Dr. S. Spandana | Development of Raspberry PI Robot for Surveillance and live streaming | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04L8 |
| 16R11A04M9 |
|  |  |  |  |  |  |  |  |  |
| **E13** | 16R11A04K9 | Y. Siva Rama Krishna | Implementation of energy conversion from furnace used in waste yard material | GCET | Product | Environment | 3,5,6,7,8,9,10,11 | 1,2 |
| 17R15A0439 |
| 15R11A0464 |
| **E14** | 16R11A04L9 | Y. Siva Rama Krishna | Development the hand of Future using Arduino Nano | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04N5 |
| 16R11A04M4 |
| **E15** | 16R11A04N9 | K. Victor | Development of food dispenser for pet using Arduino | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04M8 |
| 16R11A04M3 |
| **E16** | 16R11A04P7 | Dr. CV. Narasimhulu | Recognition of vehicle number plate using digital image processing |  | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04P2 |  |
| 16R11A04M6 |  |
| **E17** | 16R11A04N3 | K. Victor | Design of voice controlled wheelchair incorporated with home automation | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04L6 |
| 17R15A0444 |
| **E18** | 16R11A04P0 | B. Mamatha | Design of Novel Highspeed SRAM | GCET | research | cost | 1,3,4,5,8,9,10,11 | 1,2 |
| 16R11A04M5 |
| 16R11A04M7 |
| **E19** | 16R11A04P1 | Dr. CV. Narasimhulu | Implementation of street light control and manhole monitoring and fault detection | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04P6 |
| 17R15A0438 |
| **E20** | 16R11A04M0 | S. Yagna Sree | Implementation of Home Automaton Security Using Verilog | GCET | Product | safety | 3,5,6,7,8,9,10,11 | 1,2 |
| 16R11A04P3 |
| 16R11A04J6 |