

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES :: RAJAMPET  
(AUTONOMOUS)**

**Department of Mechanical Engineering  
Academic Project Work - B.Tech**

**Following is the list of project batches with titles for the academic year (2021-2022) during Fourth year.**

**Batch: 2018-2022**

| Batch | H.T.No     | Name of the student                 | Guide Name             | Title of the project   |
|-------|------------|-------------------------------------|------------------------|--|
| A 1   | 18701A0347 | PRATHYUSHA IMMARAJU                 | S. M SALEEMUDDIN       | Investigation of corrosion behaviour of Mg-Sn alloy by stir casting for bio medical applications   |
|       | 18701A0316 | HARISH REDDY CHAPPIDI               |                        |  |
|       | 18701A0323 | KARTHIK GUNIPATI                    |                        |  |
|       | 18701A0321 | JAYA MALLIKARJUNA REDDY THARIGOPULA |                        |  |
| A2    | 18701A0305 | BALAKRISHNA SURIMSETTY              | C. THIRUPATHIAIAH      | Optimization of Process Parameters of Aluminum Metal Matrix  |
|       | 18701A0308 | CHAITHANYA SURYA KUMAR CHANDRAGIRI  |                        |  |
|       | 18701A0315 | HARI KATTIRAGANDLA                  |                        |  |
|       | 18701A0312 | FAREED HUSSAIN SYED                 |                        |  |
| A 3   | 18701A0324 | KAVITHA DHANI                       | N. KISHORE KUMAR       | Mechanical behaviour of al 7075 by reinforcing the Tio2& BN  |
|       | 18701A0310 | DHANUNJAYA REDDY KANDULA            |                        |  |
|       | 18701A0327 | LOKANATH REDDY ANNEM                |                        |  |
|       | 18701A0320 | JASWANTH NAIDU POTTHURU             |                        |  |
| A 4   | 18701A0303 | ARUN KUMAR REDDY CHIYETI            | S. NAGENDRA            | Performance test on four stroke diesel engine using biodiesel produced from waste plastic oil  |
|       | 18701A0333 | MANIKANTA SINGAVARAM                |                        |  |
|       | 18701A0314 | GOVARDHAN MALAKAPURAM               |                        |  |
|       | 16709A0302 | GANDLAPARTHI BAVESH TARUN REDDY     |                        |  |
| A 5   | 18701A0302 | ACHYUTH SAI KUMAR VISWABRAHMANA     | M. LOKANATH            | investigation of mechanical properties of Mg-Ca composites   |
|       | 18709A0301 | CHADRASEKHAR KAMBAIAHGARI           |                        |  |
|       | 18701A0304 | ASHOK REDDY BOBBITI                 |                        |  |
|       | 18701A0334 | MANJUNATHA REDDY UPPALAPATI         |                        |  |
| A 6   | 18701A0326 | LEVANYA KUMAR PANDIGUNTA            | Dr. N. SIVA RAMI REDDY | Corrosion Resistance on PEO coating of MgCa composition  |
|       | 18701A0337 | MUKESH BOYA                         |                        |  |
|       | 18701A0328 | MADHU CHAPALA                       |                        |  |
|       | 19700A0301 | KARAKAMUKKALA SAI BARA GANESH       |                        |  |
| A 7   | 18701A0301 | ABDUL MUKEETH SHAIK                 | T.MANI MOHAN           | Reverse gear in two wheeler for handicapped  |
|       | 18701A0336 | MOHAMMAD ALI SHAIK                  |                        |  |
|       | 18701A0329 | MADHU SUDHAN G                      |                        |  |
|       | 18701A0331 | MAHAMMAD SAMIULLAH SHAIK            |                        |  |
| A 8   | 18701A0318 | JABEER BASHA SHAIK                  | Dr B. VENKATESH        | Optimization of effectiveness and thermal resistance of counter flow double pipe heat exchanger by using gray relational analysis and neural network model |
|       | 18701A0335 | MANOHAR REDDY P                     |                        |  |
|       | 18701A0309 | CHARAN KUMAR REDDY BOBBALA          |                        |  |
|       | 18701A0322 | JAYA RAMI REDDY KAVALAKUNTLA        |                        |  |
| A 9   | 18701A0317 | HEMASUNDHAR MANDLI                  | N Deepthi              | Optimization of process parameters in wire edm for stainless steel -304 by using grey relational analysis  |
|       | 18701A0319 | JAIPALREDDY ALAMKONDA               |                        |  |
|       | 18701A0313 | GIRIKUMAR REDDY NERUSUPALLI         |                        |  |
|       | 18701A0306 | BHANU CHAITHANYA REDDY MUMMADI      |                        |  |

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|-------|------------|-------------------------------------|---------------------------|--|
| B1    | 18701A0339 | NARENDRA BABU PEDDATHIMMAYYA GARI   | Mr G. AMARNATH            | Effect of Heat treatment on mechanical properties of magnesium metal matrix composites                 |
|       | 18701A0350 | RAMESH BABU CHANNIPOGULA            |                           |  |
|       | 18701A0357 | SANTHOSH KUMAR REDDY NALLAMASULA    |                           |  |
| B2    | 18701A0361 | SIVA KUMAR POLINA                   | Dr.A. HEMANTHA KUMAR      | Design and Fabrication of Pneumatic sheet metal cutting machine  |
|       | 18701A0358 | SASIDHAR VARMA CHAMARTHI            |                           |  |
|       | 18701A0344 | PAVANKUMARACHARI RAVURU             |                           |  |
|       | 18701A0362 | SREEKANTH N                         |                           |  |
| B3    | 18701A0348 | PRUDHVI KUMAR REDDY NALAPAREDDY     | Mr P. RAVINDRANATHA REDDY | Wear behaviour of Aluminium Hybrid MMCs(AL7075/TiO2/WC)  |
|       | 18701A0373 | VENKATESH SOOLAM                    |                           |  |
|       | 18701A0359 | SHAKEER HUSSAIN MULLA               |                           |  |
| B4    | 18701A0368 | THARUN KUMAR REDDY GUDIPATI         | Ms K. NAGAMANI            | Development of the hybrid composites of Al7075 by reinforcing the TiO2 and WC                          |
|       | 18701A0351 | RAVI ATLURU                         |                           |  |
|       | 18701A0372 | VENKATA VISHNUVARDHAN REDDY AVULA   |                           |  |
| B5    | 18701A0353 | RITHWIK KUMAR REDDY VUNDELA         | Mr K.AJAYA KUMAR REDDY    | Corrosion studies of Duplex Coating on Magnesium alloy for orthopedic applications                     |
|       | 18701A0375 | VINODKUMAR REDDY SANEPALLI          |                           |  |
|       | 18701A0355 | SAI KUMAR DASARI                    |                           |  |
|       | 18701A0363 | SREEKAR REDDY ABBASANI              |                           |  |
|       | 18701A0364 | SRINIVASA KALYAN ANKULAGARI         |                           |  |
| B6    | 18701A0370 | VENKATA KRISHNA REDDY GANGI REDDY   | Dr KRISHNA MOHAN RAJU     | Study and Kinematic design of vCNC based multi purpose machine tool                                    |
|       | 18701A0349 | RAJESH KUMAR REDDY VENNAPUSA        |                           |  |
|       | 18701A0354 | SAI DEEKSHITH REDDY CHAMALA         |                           |  |
|       | 18701A0377 | YASHWANTH PATHIPATI                 |                           |  |
| B7    | 18701A0352 | RAVITEJA REDDY MADDIREDDYGARI       | Mr N. NAGARAJU            | Experimental investigation and optimization of CNC milling parameters on Al6063 through Taguchi method |
|       | 18701A0369 | VAMSIKUMAR REDDY KATHI              |                           |  |
|       | 18701A0356 | SAIVARUN GANNE                      |                           |  |
|       | 18701A0371 | VENKATA SURESH PALETI               |                           |  |
|       | 18701A0346 | PRASANTH THALUPULA                  |                           |  |
| B8    | 18701A0360 | SHARAN KRISHNA GUNIPINENI           | Mr N. JAYA KRISHNA        | Investigation on mechanical properties of magnesium metal matrix composite with cryogenic treatment    |
|       | 18701A0342 | NIKHIL YERRAGOLLA                   |                           |  |
|       | 18701A0341 | NAVEEN KUMAR CHERI                  |                           |  |
|       | 18701A0365 | SUDHAKAR REDDY RAGIPINDI            |                           |  |
| B9    | 18701A0343 | NIRANJAN KUMAR REDDY JEEREDDY       | Dr.PV. SANJEEVA KUMAR     | fabrication and characterization of Hybrid polymer Composites Reinforced with Flax and palm fibers     |
|       | 18701A0376 | VISHNU VARDHAN REDDY YALLAREDDYGARI |                           |  |
|       | 18701A0340 | NARENDRA REDDY MANAMASU             |                           |  |
|       | 18701A0367 | SURYA VAMSI THATI                   |                           |  |
|       | 18701A0378 | ZABIULLA SHAIK                      |                           |  |
|       | 18701A0374 | VENUGOPAL KURUBA                    |                           |  |
|       | 17701A0351 | GORLA SAI SREE HARSHA               |                           |  |

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|-------|------------|-------------------------------------|----------------------------|---|
| C1    | 19705A0314 | KADAPALLI JITHENDRA                 | Mr B. SANTHOSH KUMAR       | Mechanical characterization of Bi Directional woven Glass fibre reinforced Polymer composite  |
|       | 19705A0340 | S.SHANMUKHA PRASAD                  |                            |   |
|       | 19705A0337 | M.SALAUDDIN                         |                            |   |
|       | 19705A0333 | U. RAJENDRA                         |                            |   |
| C2    | 19705A0345 | ERAGAMREDDY SUDHAKAR REDDY          | Ms N.DEEPTHI               | Design and fabrication of Highway Wind Turbine  |
|       | 19705A0336 | AKEPATI SAICHANDU REDDY             |                            |   |
|       | 19705A0346 | MADDELA UDAYKUMAR                   |                            |   |
|       | 19705A0330 | KOTA PRASHANTH                      |                            |   |
|       | 19705A0343 | CHEPPALI SRINIVASULU                |                            |   |
| C3    | 19705A0302 | BEENATHI ASHOK KUMAR                | Mr D. VISHNU VARDHAN REDDY | An investigation on corrosion behaviour of Aluminium hybrid Metal Matrix composite  |
|       | 19705A0303 | VADDI BALA KRISHNA                  |                            |   |
|       | 19705A0353 | DANDUBOINA VISHNU VARDHAN           |                            |   |
|       | 19705A0315 | SHAIK KALAAM BASHA                  |                            |   |
| C4    | 19705A0324 | BHUMIREDDY KRISTAMMAGARI NANDA HARI | Mr C. RAMANJANEYULU        | Enhancing Heat Transfer Performance of a Heat Exchanger by coating silver Nano particles  |
|       | 19705A0308 | YARRAMREDDY HARI KESAVA REDDY       |                            |   |
|       | 19705A0338 | DUDDALA SANJEEVA REDDY              |                            |   |
|       | 19705A0313 | BHAVIRISETTY JAYAKRISHNA            |                            |   |
| C5    | 19705A0326 | NALLAGATLA NIRANJAN REDDY           | Mr G.SURESH BABU           | Experimental Investigation of mechanical properties of cryogenic treated Magnesium Metal matrix composites  |
|       | 19705A0352 | SINGAM VINAY KUMAR REDDY            |                            |   |
|       | 19705A0348 | DODDOJU VEERA NAGA CHAITHANYACHARI  |                            |   |
|       | 19705A0335 | MUDIMELA REDDY BABU                 |                            |   |
| C6    | 19705A0350 | GAJULA VENKATA SURYA NARAYANA       | Mr S. RAMESH BABU          | Production and quality control on Iron Foundry  |
|       | 19705A0312 | SEETHAGARI JAYA KRISHNA             |                            |   |
|       | 19705A0347 | PAGIDALA UMA MAHESWAR REDDY         |                            |   |
|       | 19705A0334 | PULA RANI                           |                            |   |
| C7    | 19705A0307 | PASALA GOVARDAN                     | Ms N GLORY UJWALA          | Experimental Investigation and optimization of Drilling process parameters on Conventional Drilling machine for Aluminium alloy(5052) materials by using Fuzzy and Taguchi method |
|       | 19705A0309 | PIDIGUNDLA HARI PRASAD YADAV        |                            |   |
|       | 19705A0328 | KALLURI NOOR                        |                            |   |
|       | 19705A0331 | GADDA PRAVEEN KUMAR                 |                            |   |
| C8    | 19705A0310 | P.HARINATH REDDY                    | Ms N KEERTHI               | Machining of Brass & Analyzing the machining characteristics by Fuzzy and Taguchi   |
|       | 19705A0318 | U.LOKESWARA REDDY                   |                            |   |
|       | 19705A0317 | D.KODANDA RAMI REDDY                |                            |   |
|       | 19705A0319 | B.MAHESH                            |                            |   |
| C9    | 19705A0322 | SHAIK MOHAMMAD FAROOQ               | Mr R.V.N.R. SURYA PRAKASH  | Experimental Investigation and optimization of Graphite Material through Taguchi Method in CNC Drilling   |
|       | 19705A0301 | SHAIK ARSHAD                        |                            |   |
|       | 19705A0342 | TENALI SRIDHAR                      |                            |   |
|       | 19705A0321 | ANKIREDDY MAHESHWARA REDDY          |                            |   |
| C10   | 19705A0351 | MADAKA VIJAY KUMAR                  | Mr SWAR BALACHANDAR        | Fabrication of 360° wheel Rotation vehicle with Bluetooth sensing   |
|       | 19705A0354 | ADENA KATAMAIHAGARI YUGANDHAR REDDY |                            |   |
|       | 19705A0332 | BUCHUPALLI PRAVEEN KUMAR REDDY      |                            |   |
|       | 19705A0329 | LAKKIREDDY PARTHA SARADHI REDDY     |                            |   |
| C11   | 19705A0320 | MASINENI MAHESH NAIDU               | Mr M. MARUTHI PRASAD       | Fabrication of solar powered Sand Sieve   |
|       | 19705A0304 | GUDURU CHARAN KUMAR                 |                            |   |
|       | 19705A0349 | BANTROTHU VENKATA SIVA TEJA         |                            |   |
|       | 19705A0306 | POTHA DINESH                        |                            |   |
| C12   | 19705A0323 | SHAIK MUNWAR BASHA                  | Dr. B VENKATESH            | Effective parameter for over all heat transfer coefficient for counter flow- double pipe heat exchanger by using Hybrid Optimization  |
|       | 19705A0311 | KONDAMARRI HEMANTH REDDY            |                            |   |
|       | 19705A0327 | RAJOLI NIRANJAN REDDY               |                            |   |
|       | 19705A0316 | INDLAKISHOREKUMARREDDY              |                            |   |
| C13   | 19705A0339 | DEVIREDDY SARATH CHANDRA REDDY      | Mr V. VENKATESH            | Development of Manual Electro magnetic Braking system   |
|       | 19705A0341 | YEDUGURI SIVA MALLESWAR REDDY       |                            |   |
|       | 19705A0344 | GUJJALA SUBHASH KUMAR REDDY         |                            |   |
|       | 19705A0325 | YADAVA NAVEEN KUMAR                 |                            |   |