



# Department of Chemical Engineering

## IIT Madras

### List of Students Awarded Degree in 54<sup>th</sup> CONVOCATION (21.07.2017)

#### Overall List of Student Awarded Degree from Chemical Engineering

| Dual Degree    |      | Ph.D. | M.S. | M.Tech | Dual Degree            |               | Dual Degree   |               | B.Tech Honours | B.Tech | Total      |
|----------------|------|-------|------|--------|------------------------|---------------|---------------|---------------|----------------|--------|------------|
| M.S/<br>M.Tech | Ph.D |       |      |        | B.Tech/BS<br>(Honours) | M.Tech<br>/MS | B.Tech/<br>BS | M.Tech/<br>MS |                |        |            |
| 2              | 2    | 19    | 05   | 21     | 2                      | 2             | 18            | 18            | 02             | 61     | <b>152</b> |

#### Dual Degree (MS & Ph.D)

|    |  |   |
|----|--|---|
| 1. | DANNY RAJ M<br>CH11D038<br><br><i>DR.RAGHUNATHAN RENGASAMY</i> | DROPS AS AGENTS: UNDERSTANDING COMPLEX BEHAVIOR IN 2D MICROCHANNELS |
| 2. | NIKITA SAXENA<br>CH14D208<br><br><i>DR.M CHIDAMBARAM</i>       | RELAY TUNING OF PID CONTROLLERS FOR UNSTABLE SYSTEMS                |

#### Doctor of Philosophy - Ph.D

|    |  |  |
|----|--|--|
| 1. | SUBIN POULOSE<br>CH09D006<br><br><i>DR.T PANDA</i>   | STUDIES ON BIOSYNTHESIS AND APPLICATION OF SILVER NANOPARTICLES                                      |
| 2. | K S RAJMOHAN<br>CH10D003<br><br><i>DR.RAGHURAM CHETTY</i>  | ELECTROCHEMICAL REDUCTION OF NITRATE ON COPPER BASED ELECTRODES IN SOLID POLYMER ELECTROLYTE REACTOR |
| 3. | SANTHOSHAM ARUNA<br>CH10D012<br><br><i>DR.PREETI AGHALAYAM</i>   | NITRIC OXIDE EMISSIONS IN DIESEL & BIODIESEL ENGINES - A DETAILED STUDY USING SURROGATE FUELS        |
| 4. | NITHYA M<br>CH11D006<br><br><i>DR.T PANDA</i><br><i>DR.SARIT KUMAR DAS</i><br>*already degree issued on 15.03.2017 | STUDIES ON CHEMOTAXIS AND THERMOTAXIS OF E. coli IN A MICROFLUIDIC DEVICE                            |
| 5. | SAM DAVID S<br>CH11D009<br><br><i>DR.T RENGANATHAN</i><br><i>DR.K KRISHNAIAH</i>                                   | COCURRENT DOWNWARD LIQUID-LIQUID SYSTEM: HYDRODYNAMICS AND RESIDENCE TIME DISTRIBUTION               |



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|     |   |  |
|-----|---|--|
| 6.  | SATHEESH KUMAR PEREPU<br>CH11D011<br><br><i>DR.ARUN K TANGIRALA</i>                             | NOVEL SPARSE OPTIMIZATION-BASED METHODS FOR SIGNAL RECOVERY AND SYSTEM IDENTIFICATION  |
| 7.  | ABHISHANKAR KUMAR<br>CH11D016<br><br><i>DR.SRIDHARAKUMAR NARASIMHAN</i>                         | OPTIMAL INPUT SIGNAL DESIGN FOR PLANT FRIENDLY IDENTIFICATION OF PROCESS SYSTEMS   |
| 8.  | AJITH C<br>CH11D017<br><br><i>DR.ABHIJIT P DESHPANDE</i><br><i>DR.SUSY VARGHESE</i>             | THE EFFECT OF HETEROGENEITIES AND HYDRATION ON THE MICROSTRUCTURE AND TRANSPORT IN CROSSLINKED HYDROPHILIC IONIC POLYMER MEMBRANES   |
| 9.  | JASON RYAN PICARDO<br>CH11D026<br><br><i>DR.S PUSHPAVANAM</i>                                   | PHYSICS OF LAYERED MICRO-FLOWS   |
| 10. | SATYAM NAIDU VASIREDDY<br>CH11D030<br><i>DR.SREENIVAS JAYANTI</i><br><i>DR.PREETI AGHALAYAM</i> | CO <sub>2</sub> GASIFICATION REACTIVITY STUDIES OF COALS AND BIOMASS BLENDS OF INDIAN ORIGIN FOR POWER GENERATION WITH CO <sub>2</sub> CAPTURE                                     |
| 11. | TANNERU HEMANTH KUMAR<br>CH11D031<br><br><i>DR.RAGHUNATHAN RENGASAMY</i>                        | MODELING AND OPTIMIZATION OF MICRO PHOTOSYNTHETIC POWER CELLS  |
| 12. | PRAVEEN KUMAR SAPPIDI<br>CH11D033<br><br><i>DR.UPENDRA NATARAJAN</i>                            | MOLECULAR SIMULATIONS OF STRUCTURE OF ANIONIC POLYELECTROLYTES IN AQUEOUS SOLUTION AND WATER-ALCOHOL MIXTURE   |
| 13. | PRATIBHA BISWAL<br>CH11D037<br><br><i>DR.TANMAY BASAK</i>                                       | STUDIES OF NATURAL CONVECTION DURING DIFFERENTIAL AND RAYLEIGH-BÉNARD HEATING WITHIN CAVITIES INVOLVING CURVED (CONCAVE/CONVEX)WALL(s): HEATLINE AND ENTROPY GENERATION APPROACHES |
| 14. | SIVARAMAKRISHNA BURELA<br>CH12D001<br><br><i>DR.R RAVI</i>                                      | APPLICATION OF MASS TRANSFER MODELS: CASE STUDIES ON STEFAN AND CAPILLARY TUBES FOR THE DIFFUSION OF IDEAL GAS MIXTURES  |
| 15. | TRIVIKRAM REDDY N<br>CH12D008<br><br><i>DR.BASAVARAJA M GURAPPA</i>                             | ROLE OF CHARGE AND HYDROPHOBICITY OF COLLOIDAL PARTICLES IN STABILIZATION OF PICKERING EMULSIONS   |



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|     |  |  |
|-----|--|--|
| 16. | VENKATA REDDY P<br>CH12D009<br><br><i>DR.SHANKAR NARASIMHAN<br/>DR.RAGHUNATHAN RENGASAMY</i> | SENSOR AND ACTUATOR NETWORK DESIGN FOR CONTAMINANT DETECTION AND MITIGATION IN WATER DISTRIBUTION NETWORKS |
| 17. | VIR ANIL BABASAHEB<br>CH12D010<br><br><i>DR.S PUSHPAVANAM</i>                                | HYDRODYNAMICS, MASS TRANSFER AND REACTIONS IN LIQUID-LIQUID TWO-PHASE MICROREACTORS                        |
| 18. | S MANIGANDAN<br>CH12D016<br><br><i>DR.ETHAYARAJA MANI</i>                                    | SYNTHESIS AND SELF-ASSEMBLY OF SPHERICAL AND NON-SPHERICAL PATCHY COLLOIDS                                 |
| 19. | CHANDRA SHEKAR BESTHA<br>CH14D002<br><br><i>DR.M CHIDAMBARAM</i>                             | CENTRALIZED PID CONTROLLERS FOR LINEAR MULTIVARIABLE SYSTEMS   |

### Master of Science by Research – M.S

|    |   |  |
|----|---|--|
| 1. | KADHIRESAN A<br>CH11S018<br><br><i>DR. SUSY VARUGHESE</i>     | CROSS-LINKED PVA MEMBRANES FOR CO <sub>2</sub> SEPARATION BY FACILITATED TRANSPORT   |
| 2. | SNIGDHA SREE R<br>CH12S016<br><br><i>DR. PREETI AGHALAYAM</i> | EXPERIMENTS AND MODELING OF AFTER-TREATMENT OPTIONS FOR DIESEL BASED ENGINES   |
| 3. | PRAJAPATI ADITYA<br>CH13S015<br><br><i>DR. RENGANATHAN T</i>  | KINETIC STUDIES OF CO <sub>2</sub> CAPTURE BY SUPPORTED K <sub>2</sub> CO <sub>3</sub> IN A FLUIDIZED BED REACTOR          |
| 4. | SIDDHARTH RAJENDRA JAIN<br>CH13S022<br><br><i>DR. VINU R</i>  | INVESTIGATION OF ETHYLBENZENE OXIDATION IN SMPO PROCESS TO IMPROVE THE YIELD AND SELECTIVITY OF ETHYLBENZENE HYDROPEROXIDE |
| 5. | MOHAN DAS<br>CH14S006<br><br><i>DR. SUSY VARUGHESE</i>        | SUSTAINABLE APPROACHES TO THE RECYCLING OF CARBON FIBER REINFORCED POLYMER COMPOSITE (CFRP) WASTE                          |



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#### Master of Technology - M.Tech

##### CHEMICAL ENGINEERING

|     |           |                            |
|-----|-----------|----------------------------|
| 1.  | CH14M030* | VADDEPALLY SHIVA PRASAD    |
| 2.  | CH15M005  | ANBUHELVAN ANAMICCA        |
| 3.  | CH15M013  | DAWA GELEK                 |
| 4.  | CH15M015  | DEPEN SISODIA              |
| 5.  | CH15M020  | KURUBA SIDDA SAI           |
| 6.  | CH15M022  | MANDAR KIRAN KULKARNI      |
| 7.  | CH15M023  | MEDIDI SATYARAKESH         |
| 8.  | CH15M024  | MUHAMMED FADIL IBIN ARSHAD |
| 9.  | CH15M027  | RASEENA T                  |
| 10. | CH15M030  | SANTHANA KRISHNAN V        |
| 11. | CH15M031  | SAURABH TRIPATHI           |
| 12. | CH15M037  | ABHIJITH K HARIDAS         |
| 13. | CH15M038  | KRISHNA SAGA               |
| 14. | CH15M040  | J PADMAJA                  |

##### CATALYSIS TECHNOLOGY

|    |          |                              |
|----|----------|------------------------------|
| 1. | CA13M001 | JAGANATHAN R                 |
| 2. | CA15M001 | EASAM RAM KISHORE KUMAR DORA |
| 3. | CA15M002 | GUGULOTH VENKANNA            |
| 4. | CA15M003 | SHUVA PRASAD MAITI           |
| 5. | CA15M005 | DIVYAPRASANNA B              |
| 6. | CA15M006 | SELLAVEL E                   |
| 7. | CA15M007 | SHREE SUMANAS BADRINATH      |

#### DUAL DEGREE (B.Tech (HONOURS) & M.Tech)

|    |          |                          |
|----|----------|--------------------------|
| 1. | CH12B083 | MEGHANA VENKATA PALUKURI |
| 2. | CH12B091 | SRIJITH RAJAGOPALAN      |

#### DUAL DEGREE (B.Tech & M.Tech)

|    |           |                     |
|----|-----------|---------------------|
| 1. | CH11B088* | ROHIT SINGH         |
| 2. | CH12B017  | BHAGAT AMEY PRANAV  |
| 3. | CH12B024  | ELEDATH ASWIN JAYAN |
| 4. | CH12B033  | ADITI SUNIL KHOT    |



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|     |          |                            |
|-----|----------|----------------------------|
| 5.  | CH12B076 | AKSHAY GOVINDARAJ          |
| 6.  | CH12B077 | ASHISH SOLANKI             |
| 7.  | CH12B078 | BISOYI SUNITHA KUMARI      |
| 8.  | CH12B079 | CHITODKAR SARVESH RAJENDRA |
| 9.  | CH12B080 | DANIEL VIJU V              |
| 10. | CH12B081 | DONGRE REVAIAH             |
| 11. | CH12B082 | HARMANDEEP SINGH           |
| 12. | CH12B084 | MINAL PATIL                |
| 13. | CH12B085 | MOSES EMMANUEL LANKA       |
| 14. | CH12B086 | NIRMAL KUMAR R             |
| 15. | CH12B087 | PRAKHAR MAHAJAN            |
| 16. | CH12B089 | PURAB PRADEEP JAIN         |
| 17. | CH12B092 | VIMANYU VERMA              |
| 18. | CH12B093 | VIPUL MANN                 |

### Bachelor of Technology - B.Tech

|     |           |                            |
|-----|-----------|----------------------------|
| 1.  | CH09B082  | GANDI RAVI TEJA            |
| 2.  | CH10B083  | KETHAVATHU SANKAR LAL NAIK |
| 3.  | CH12B001* | A ARUN                     |
| 4.  | CH13B001  | U AAKASH                   |
| 5.  | CH13B002  | ABHINAV PARAKH             |
| 6.  | CH13B003  | G ADARSH                   |
| 7.  | CH13B004  | AMARESH KUMAR              |
| 8.  | CH13B005  | ANISH R PATIL              |
| 9.  | CH13B006  | AQEL AHAMMAD K P           |
| 10. | CH13B007  | ARAVIND P MANOJ            |
| 11. | CH13B008  | ARJUN PRASANNAN            |
| 12. | CH13B010  | ARUN P                     |
| 13. | CH13B011  | ARUNJITH A                 |
| 14. | CH13B012  | ATUKURI SAI VAMSHI         |
| 15. | CH13B013  | ATUL PRAKASH               |
| 16. | CH13B014  | BACHU SMARAN RAJ           |
| 17. | CH13B015  | BANDARU DEEKSHITA          |
| 18. | CH13B016  | BATCHU SAI PRANEET         |
| 19. | CH13B017  | CHANDARALA GOWTHAM         |
| 20. | CH13B018  | SUVINDU CH                 |
| 21. | CH13B019  | CHINNASETTI SHARATHMANI    |
| 22. | CH13B020  | DISHA HARISH JAIN          |



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|     |          |                           |
|-----|----------|---------------------------|
| 23. | CH13B021 | DIXIT JAIN                |
| 24. | CH13B022 | FAVAS C                   |
| 25. | CH13B023 | GAURABH SINGHVI M         |
| 26. | CH13B024 | GORTHI VATSALYA           |
| 27. | CH13B025 | GUGULOTHU SAI KUMAR       |
| 28. | CH13B026 | HIMANSHU JAT              |
| 29. | CH13B027 | JAGADANANDA PATRA         |
| 30. | CH13B030 | KAILASH K                 |
| 31. | CH13B031 | KEERTHANA A               |
| 32. | CH13B032 | KONGE UTKARSH VASUDEV     |
| 33. | CH13B033 | KOPPULA MANOJ KUMAR       |
| 34. | CH13B034 | KORIBILLE SRI HARSHA      |
| 35. | CH13B035 | LANKA JASWANTH            |
| 36. | CH13B036 | LATCHUPATULA MANISH NAIDU |
| 37. | CH13B038 | LOLLA AKHIL               |
| 38. | CH13B039 | MANNETI SHYAMPRASAD REDDY |
| 39. | CH13B040 | MEET PRAVEENBHAI SARADVA  |
| 40. | CH13B041 | MEHUL CHAUDHARY           |
| 41. | CH13B042 | MUKESH KRISHNAN H         |
| 42. | CH13B044 | NAMA PRAVEEN KUMAR        |
| 43. | CH13B045 | NAMBIGARI R NISHANTH      |
| 44. | CH13B046 | NURGOOR DEEPAK SAI        |
| 45. | CH13B047 | PALLERLA ROHITH           |
| 46. | CH13B049 | PENNA SAI SARAN REDDY     |
| 47. | CH13B050 | PRASHANTH SRINIVASAN      |
| 48. | CH13B051 | K R RAHUL                 |
| 49. | CH13B054 | ROHAN AJITH               |
| 50. | CH13B056 | A H S SAI SRINIVAS        |
| 51. | CH13B057 | SHANKARA NARAYANAN R      |
| 52. | CH13B058 | SHRUTI SHIVAKUMAR         |
| 53. | CH13B060 | SIMHADATI NETAJI BABU     |
| 54. | CH13B061 | SINDHUJA S                |
| 55. | CH13B066 | TAGORE JAYADEEP SINGH     |
| 56. | CH13B069 | N VIGNESH                 |
| 57. | CH13B070 | VIGNESH RAM SOMNATH       |
| 58. | CH13B072 | YASH MAHESHWARI           |
| 59. | CH13B073 | YASHASVINI K              |
| 60. | CH13B092 | ARUN VARGHESE             |
| 61. | CH13B093 | PASPUREDDI AKHILESH       |



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### 54<sup>th</sup> CONVOCATION PRIZE WINNER

#### DUAL DEGREE (B.Tech & M.Tech)

|    |  |   |
|----|--|---|
| 1. | <b>B Ravichandran Memorial Prize</b><br>For the highest CGPA in Dual Degree Chemical Engg.                     | <b>Srijith Rajagopalan</b><br>CH12B091      |
| 2. | <b>C A Sastry Endowment Prize</b><br>For the best overall performance in curricular & co-curricular activities | <b>Meghana Venkata Palukuri</b><br>CH12B083 |

#### Mtech

|    |  |  |
|----|--|--|
| 1. | <b>Dr K Subba Raju Memorial Prize</b><br>For the highest CGPA in M.Tech Chemical Engineering                       | <b>Anbuchelvan Anamicca</b><br>CH15M005    |
| 2. | <b>Sri S V Balakrishnan Merit Prize</b><br>For the highest CGPA in M.Tech Catalysis Stream in Chemical Engineering | <b>Shree Sumanas Badrinath</b><br>CA15M007 |