

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



SUSTAINABLE
DEVELOPMENT GOALS

REPORT 2022



SUSTAINABLE DEVELOPMENT GOALS

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



SDG 9 focuses on developing sustainable infrastructure projects and industries, as well as improving existing ones and encouraging innovation. Manipal University Jaipur has a long history of innovation and entrepreneurship, applied research and development, and industrial relationships that address real-world issues.



Scholarly output for SDG-9



Activity of Manipal University Jaipur

Within: **SDG 9: Industry, Innovation and Infrastructure** | Year range used for metrics: 2020 to 2022 | [Analyze Topic worldwide](#)

Summary Compare to your Institution

+ Add Summary to Reporting

Performance

+ Add to Reporting

175

Scholarly Output



[View list of publications](#)

1.51

Field-Weighted Citation Impact



28

International Collaboration



5,434

Views Count

1,013

Citation Count

Activity of Manipal University Jaipur

Within: **SDG 9: Industry, Innovation and Infrastructure** | Year range used for metrics: 2020 to 2022 | [Analyze Topic worldwide](#)

Summary Compare to your Institution

Collaboration

+ Add to Reporting

International Collaboration

Publications co-authored with Institutions in other countries/regions



Manipal University Jaipur:
16.0%

Academic-Corporate Collaboration

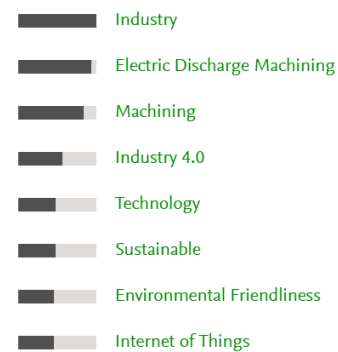
Publications with both academic and corporate affiliations



Manipal University Jaipur:
0.0%

Top 15 keyphrases

Top 15 keyphrases by relevance, based on 175 publications





Industrial MOUs for Innovation and Industry practices



| Sl no | Year | Name of the organisation with whom MoU is signed | Country of organisation with whom MOU is signed |
|-------|------|--|---|
| 1 | 2022 | DR CBS CYBER SECURITY SERVICES LLP, JAIPUR | INDIA |
| 2 | 2022 | Smarden Automation Pvt Ltd, New Delhi | INDIA |
| 3 | 2022 | Ericsson India Global Pvt Limited | INDIA |
| 4 | 2022 | National highway Authority of India | INDIA |
| 5 | 2022 | RHAM FOOD AND AGRO PROCESSORS (OPC) PVT LTD | INDIA |
| 6 | 2022 | Google | INDIA |
| 7 | 2022 | Techie Nest | INDIA |
| 8 | 2022 | MUSKAAN NGO | INDIA |
| 9 | 2022 | PLUSS ADVANCED TECHNOLOGIES | INDIA |
| 10 | 2022 | Floodkon Consultance LLP | INDIA |
| 11 | 2022 | GROHE India Pvt Ltd | INDIA |
| 12 | 2022 | Chhangani And Associates | INDIA |
| 13 | 2022 | Truechip Solutions | INDIA |
| 14 | 2022 | CISCO | INDIA |
| 15 | 2022 | DELL | INDIA |



List of Students registered in Innovation cell



| Sl No | Department | Reg. No | Name of Student |
|-------|------------------------|------------|-------------------------|
| 1 | BBA | 200901016 | Tanish Vijay |
| 2 | BTech ECE | 209202144 | Raghvendra Pratap Singh |
| 3 | CSE Core | 219301432 | Ashnuta Upadhyaya |
| 4 | CSE. (AI & ML) | 219310250 | Vaidik Mandloi |
| 5 | CSE. (AI & ML) | 219310098 | Utkarsh Pratap Singh |
| 6 | CSE-IOT | 219311163 | Annanya Sood |
| 7 | Data Science/BTech | 219309038 | Appalla Saikiran |
| 8 | B.Tech IT | 209302139 | Aryaman Singh |
| 9 | Information Technology | 209302155 | Akshat Chauhan |
| 10 | B Tech, CSE core | 219301193 | Rajveer Sanghavi |
| 11 | BA PSYCHOLOGY HONS | 2111030121 | Jessica Agarwal |
| 12 | Btech CSE | 219309066 | Dhruv Narayan Singh |
| 13 | B.Tech | 219401006 | Parth Sumeet |
| 14 | BTech DSE | 219309018 | Tamaghna Mohanty |
| 15 | Cse | 219301185 | Ayam kaushik |
| 16 | Btech CCE | 219303126 | Divyanshee Saxena |
| 17 | BTECH IT | 219302286 | Vaibhav choudhary |
| 18 | BTech CSE core | 219301203 | Arnay Verma |
| 19 | BTech IT | 219302064 | Sanchi kataria |
| 20 | B.B.A | 210901031 | Shubham mitra |
| 21 | B.tech cse | 219311285 | Jaya Gandhi |
| 22 | BTech CSE | 219301464 | Abhijai Srivastava |
| 23 | IT | 209302368 | Karan kumar |
| 24 | Ba psychology honours | 211103034 | Aastha |
| 25 | Btech CS iot and IT | 219311204 | Arjan Gandhi |
| 26 | Btech IT | 219309151 | Rishu Yadav |
| 27 | Btech IT | 219302197 | Devvrath Singh |
| 28 | Btech IT | 219302173 | Dhruv Arora |
| 29 | CSE | 209301284 | Anant Vardhan Singh |
| 30 | Btech cse | 219301238 | Pulkit kohli |
| 31 | Btech CCE | 219303183 | Vivek Bhamboo |
| 32 | CSE | 219301220 | Utkarsh Sethi |
| 33 | IT | 209302404 | Varun Pratap Singh |
| 34 | Btech/IT | 219302117 | Shubhi Talati |
| 35 | BTech CCE | 209303107 | Ansh Chawla |
| 36 | B.tech (IT) | 219302007 | Sankalp Malviya |
| 37 | Btech CSE | 209301043 | Aman Yadav |
| 38 | Btech cse | 219310067 | Abhishek soni |
| 39 | IT | 209302394 | Harshvardhan |
| 40 | Btech IT | 219302312 | Harsh Mishra |
| 41 | Btech/Cse | 219301240 | Mudit Shrivastava |
| 42 | Ece | 209202010 | Shrey khandelwal |



| | | | |
|----|--|------------|--------------------------------|
| 43 | Computer science engineering | 209301409 | Aatmaj Amol Salunke |
| 44 | B.com(Hons.) | 200903023 | Chirag Katoch |
| 45 | BTech DSE | 209309008 | Parth Kapur |
| 46 | Bsc psychology | 9205542117 | Draksha jogiani |
| 47 | Btech mechatronics | 209403044 | Sourav Sancheti |
| 48 | B.Tech CSE | 219301748 | Kanish Gupta |
| 49 | B.Tech-IT | 219302046 | Vedant porwal |
| 50 | B.Tech-IT | 209302016 | Aman Mukherjee |
| 51 | CCE | 219303170 | MADHAV SORAL |
| 52 | IT | 209302053 | Saksham fafriya |
| 53 | CCE | 209303334 | Ohm Gupta |
| 54 | CSE core | 219302211 | Kushagra srivastava |
| 55 | B.Tech CSE | 209301618 | Madhvendra Dixit |
| 56 | Cse AI ML | 219310078 | Sai Vibhu lade |
| 57 | CSE Core | 219301509 | Dev Shalinkumar Agrawal |
| 58 | BTech CSE | 219301173 | Sidharth Sharma |
| 59 | BTech CSE AI and ML | 2193100041 | P pavannaganitya santosh reddy |
| 60 | CCE | 219303019 | Gitanshu Talwar |
| 61 | CSE AI and ML | 219310192 | Sai Yashwant Reddy Panthy |
| 62 | CSE IOT | 219311015 | Shivang Sharma |
| 63 | CSE | 209301363 | Sarthak Srivastava |
| 64 | Bsc Psychology | 211007021 | Aditi Talesra |
| 65 | Computer And Communication Engineering | 219303015 | Aryan Arvind |
| 66 | B TECH IT | 219302026 | Utkarsh Dixit |
| 67 | Btech IT | 219303165 | Amrita Prasad |
| 68 | B.Tech Data science and engineering | 219309026 | K A Samierrah |
| 69 | BTech DSE | 219309012 | Muskaan Lalchandani |
| 70 | Btech Hons lot & is | 219311303 | Aayush Tyagi |
| 71 | Btech CSE | 209301508 | Anant Khemka |
| 72 | CSE (B. Tech) | 209302170 | Yash Arora |
| 73 | IT | 219311202 | Aditya Mudgal |
| 74 | Btech/IT | 209302021 | Ashutosh Sharma |
| 75 | Btech/CS | 219301577 | Rishiraj |
| 76 | BA(Hons.) Psychology | 211103028 | Avni Singh |
| 77 | B.Tech | 219301726 | Aakarsh Sagar Mahajan |
| 78 | CSE | 219301078 | Saurav Yadav |
| 79 | Automobile | 209401020 | Bhavya Matta |
| 80 | Information technology | 219302324 | Pranshu Maheshwari |
| 81 | Btech cse | 219301112 | Sanidhya khandelwal |
| 82 | Mech | 209402037 | Apar |
| 83 | Btech Cse | 219301729 | Akshay |
| 84 | Btech Cce | 219303055 | Aryan Malik |



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|-----|-------------------------------------|------------|---------------------|
| 85 | IT | 209303189 | Sanchari Goutam |
| 86 | ECE | 209202166 | Parth Chopra |
| 87 | Btech CSE | 2093011193 | Rachit Gupta |
| 88 | Cse | 219301483 | Sahl alam |
| 89 | CSE Core | 219301487 | Ayaz Shakeel Raihan |
| 90 | CSE-AI&ML | 219310297 | Kapish Jain |
| 91 | Btech (IT) | 219302248 | Aritra Dhoni |
| 92 | Btech - iot and is uni | 219311159 | Ravish Gupta |
| 93 | School of business and commerce | 210902003 | Sahil Gupta |
| 94 | CSE | 219301055 | Anikeit Bagaria |
| 95 | CSE+AI | 219310323 | ANSH SRIVASTAVA |
| 96 | CSE | 219311133 | Mohit Goyal |
| 97 | Btech - mechatronics | 219403009 | Yuval shah |
| 98 | CCE | 219303093 | Naman Agarwal |
| 99 | BBA | 200901044 | Sahil Kham |
| 100 | BBA | 200901302 | Anurag Choudhary |
| 101 | BBA | 210901324 | Gaurvi gupta |
| 102 | Cs | 219301691 | Akshaj |
| 103 | Cse BTech | 209301123 | Aananya sinha |
| 104 | CSE in AI and ML | 219310225 | Prem Patel |
| 105 | Btech/CSE | 219301184 | Manya Khater |
| 106 | B tech CS AIML | 219310261 | Ananya Bhardwaj |
| 107 | Btech cse hons iot and intelligent | 219311022 | Devendra |
| 108 | Data Science Engineering | 219309107 | RISHABH RAO |
| 109 | Information Technology | 219302289 | Somesh Kumar |
| 110 | Btech. Data science and engineering | 219309092 | Yash Turambekar |
| 111 | DSE [IT] | 219309027 | KARTIKEYA JAIN |
| 112 | Btech Hons CSE Ai ML | 219310105 | Hardik Goyal |
| 113 | CSE (AI and ML) | 219311210 | Samyak Jain |
| 114 | CSE IOT AND IS | 219311122 | U.Pranay |
| 115 | CSE | 219301533 | Ayush Shah |
| 116 | Data science | 219309147 | Adarsh Agarwal |
| 117 | Cse data science | 219309050 | Priyanshu Kachalia |
| 118 | B.Tech CCE | 209303072 | Sayantana Mondal |
| 119 | Mechatronics Engineering | 219403004 | Darshil Galaiya |
| 120 | Msc chemistry | 211013001 | Anuj Mehta |
| 121 | BA Economics Honours | 211101014 | Samrat Singh |
| 122 | Bcom Hons | 210903042 | Tijil Yadav |
| 123 | Data Science | 219205015 | Yatin Bhatt |
| 124 | BTech IT | 219302436 | Raman Bhinder |
| 125 | BTECH CSE | 219301497 | Arnav Singh |
| 126 | Cse | 219301515 | Aryavardhan |
| 127 | BTECH CSE | 209301496 | Pranav Srivastav |
| 128 | IT | 219302056 | Harsh Pratap Singh |



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|-----|--------------------------|-----------|---------------------------|
| 129 | B.Tech/CCE | 189303129 | Devvrat Singh |
| 130 | Btech CSE | 209301155 | Harshita Sharma |
| 131 | ECE | 209202068 | Praveen Tagore |
| 132 | Btech. CCE | 209303361 | Aditya Kumar |
| 133 | B.Tech, CCE | 209303214 | Kshitiz Singh Rathore |
| 134 | Cse | 219301197 | Harshmeet pal singh diwan |
| 135 | Btech-IT | 209302126 | RUPAM DEBNATH |
| 136 | IT | 219302298 | Anurag Dutta |
| 137 | B. Tech, CSE | 209301380 | Janmey Shukla |
| 138 | B.Tech(CSE) | 209301288 | Abhyuday Shukla |
| 139 | Btech ECE | 209202192 | Sriya Srinath Pillai |
| 140 | Btech Cse(iot is) | 219311137 | Aryan Sardana |
| 141 | BTech CSE IoT | 219311299 | Rohaana Jha |
| 142 | BBA | 200901253 | Uday jain |
| 143 | Btech CSE | 199301306 | Ishan Srivastava |
| 144 | Data science Engineering | 219309144 | Ananya Gupta |
| 145 | B.Arch | 200501008 | Chhavi kohli |
| 146 | BTech Data Science | 219309064 | Deivyansh Singh |
| 147 | Btech IT | 219302405 | Nishant bordia |
| 148 | B.TECH CSE | 219301225 | Abhi Thakur |
| 149 | BTech /CSE | 219301477 | Arnav Mirji |
| 150 | Btech/IT | 219302288 | Manav |
| 151 | Mechatronics | 219403013 | Chirayu garg |
| 152 | BTech Mechanical | 219402022 | Vedant Vinod Nemade |
| 153 | BTECH(IT) | 209302294 | Sanskar Swaraj |
| 154 | B. Tech/ IT | 209302414 | Tushar Jaiswal |
| 155 | Chemistry | 201022604 | Shakir |
| 156 | BTECH CSE | 219310104 | APOORV RAJ DUBEY |
| 157 | Commerce | 200906605 | Mohd Ayaz |
| 158 | B.Tech CCE | 219303057 | Sayonil Dasgopdar |
| 159 | Btech EEE | 219205005 | Krish Mehta |
| 160 | B-Tech | 219301026 | Aditya Pandya |
| 161 | B tech(AI ML) CSE | 219310243 | Rtwik Nambiar |
| 162 | bsc psych | 211007051 | kemya nayyar |
| 163 | BTech CSE | 219301551 | Veda Rathod |
| 164 | Bsc psychology | 211007052 | Aradhna Juneja |
| 165 | CSE | 219302305 | Siddhi Tiwari |
| 166 | Btech - IT | 219302048 | Kushal Doshi |
| 167 | BSc Psychology | 211007032 | Heeposh Pandita |
| 168 | CSE | 219301420 | Tanishq Sawant |
| 169 | B tech (ece) | 219202032 | Jeet jawale |
| 170 | B.tech CSE | 219301101 | Rishi Mehta |
| 171 | Btech in CSE | 219311161 | Anisha |
| 172 | B tech CSE | 219301049 | Anushka Agarwal |



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|-----|---|------------|----------------------|
| 173 | CSE | 219301635 | Gaurav Gakhar |
| 174 | Dqta Science | 219309076 | Chhavi Mathur |
| 175 | BTECH CSE | 219310112 | Vasi Tanvika |
| 176 | B.Tech (Hons.) CSE with specialization in AI and ML | 219310188 | Shikhar Maheshwari |
| 177 | Btech/CSE | 219301301 | Gurdeen kaur |
| 178 | BTech CSE | 2190301090 | Eeya Modi |
| 179 | BTech Information Technology | 219302122 | Saras Mehta |
| 180 | Btech cse | 219301326 | Divija Saxena |
| 181 | CSE/Btech | 209301087 | Anmol Bajpai |
| 182 | Bcom | 200902030 | Vishwas Khanna |
| 183 | BAJMC | 201201045 | Chirag Maheshwari |
| 184 | B. TECH CSE | 219301273 | Aditya Patil |
| 185 | CSE core | 219301336 | Rohan |
| 186 | Cse | 209301572 | HARSHIT SHARMA |
| 187 | BCA | 201015063 | Vaibhav Kumar |
| 188 | Bachelor's in Computer Application | 201015015 | Vidit Malviya |
| 189 | Btech- Data Science and Engineering | 219309031 | Maheeka Dutta |
| 190 | Btech CSE Core | 219301204 | Musu Priyam |
| 191 | B.Tech Information Technology | 219302116 | SARTHAK GARG |
| 192 | ECE | 209202070 | Aviral shukla |
| 193 | Btech-cse | 219301472 | Armanjot singh |
| 194 | Bba | 210901140 | Bhoomi Lodha |
| 195 | Psychology | 211103103 | Radhika Khandelwal |
| 196 | Btech CSE | 209301171 | Rohan Khanna |
| 197 | B.tech CSE | 219301685 | Ansh Ajeet Singh |
| 198 | BTech, CCE | 219303044 | Maanav Kumarpal Shah |
| 199 | BTech | 219309024 | Rajveer Dhankani |
| 200 | Cse btech with iot and intelligent system | 219311071 | Rashi ahuja |
| 201 | Btech Cse IOT IS | 219311231 | Saket S. Patil |
| 202 | Bsc Biotechnology | 211002048 | Madhuja M. Biswas |
| 203 | Btech cse | 219301131 | Juhi Saha |
| 204 | Information Technology | 219302198 | Gautam Vhavle |
| 205 | Btech Cse(Ai and ML) | 219310063 | N.NIKHIL |
| 206 | IT | 219302100 | Aaron Sequeira |
| 207 | Bsc | 201007027 | Nishtha Mukherjee |
| 208 | BBA | 200901182 | Shreya agarwal |
| 209 | BBA | 200901277 | Layba |
| 210 | Btech CSE | 209301056 | Ritvik Chawla |
| 211 | Btech/CSE | 219302302 | Aditya Nambiar |
| 212 | B-tech CSE | 219301603 | Aman Singh |
| 213 | Btech cse core | 219301566 | Ananya sharma |
| 214 | Btech Cse Core | 219301645 | Anmol Singh Gill |
| 215 | BCA | 211015016 | Kavish Desai |



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|-----|--|------------|------------------------|
| 216 | BTech/IT | 219302175 | Ayush Gupta |
| 217 | B.Tech - Information Technology | 219302415 | Aditya Joshi |
| 218 | Computer and Communication Engineering | 219303036 | Lakshay Kanodia |
| 219 | Bcom. Hons. | 210903092 | Shreyansh Tayal |
| 220 | Btech cse | 219301424 | kanishk gupta |
| 221 | Btech | 209301525 | Kartik Sethi |
| 222 | CCE | 219303077 | Sankalp Misra |
| 223 | BBA | 200901220 | Pratham verma |
| 224 | IT | 7087871850 | Kumar Adityam |
| 225 | B.Tech ECE | 209202137 | Saubhagya Awasthi |
| 226 | B.Tech. CSE | 209301116 | Kalpesh Kumar |
| 227 | Btech cce | 209202075 | Kartik chhabra |
| 228 | CCE | 209303317 | Ananya Kafola |
| 229 | ECE | 209202064 | Nirosha |
| 230 | Mechatronics | 209403033 | Tanish Katial |
| 231 | BTech it | 209302060 | Dev beniwal |
| 232 | It | 209302065 | Samarth Seth |
| 233 | Btech cse | 209301160 | Vaibhav shoree |
| 234 | IT | 209302082 | Ashish kumar yadav |
| 235 | Bba | 210901302 | Suraj kumar sharma |
| 236 | Bba | 210901283 | Sourabh Sharma |
| 237 | BBA | 210901291 | Rachit Chittora |
| 238 | CSE | 219301139 | Rohan Sutradhar |
| 239 | CSE AI-ML | 219310278 | Vishesh Aggarwal |
| 240 | DSE | 219309150 | Darshan Dinesh |
| 241 | Computer science | 219311257 | Shriya tripathi |
| 242 | BTECH/IT | 209303119 | Subhojit Makur |
| 243 | IT | 209303099 | Mayank Singhal |
| 244 | Btech IT | 219302304 | Upvan Luthra |
| 245 | Btech IT | 219309033 | Ribhav Loomba |
| 246 | BBA | 200901255 | Khushi Agrawal |
| 247 | CSE AI ML | 219310279 | Akash Kumar Singh |
| 248 | Btech CSE | 219310030 | Phanideep |
| 249 | Btech CSE | 219310029 | Sanjeevan Kaluskar |
| 250 | CSE CORE | 219301454 | Dhruv Dogra |
| 251 | BBA | 210901141 | Shubham Jangid |
| 252 | BTECH CSE | 209301338 | Vanshaj arora |
| 253 | Btech | 219310037 | Anirudh Singh |
| 254 | B.Tech(CCE) | 189202109 | Japneet Kaur Budhiraja |
| 255 | B.Tech | 189102016 | Anamika Anil |
| 256 | B.Tech-CCE | 189303181 | Mukul Nagar |
| 257 | Information Technology | 219302485 | Ashwin Shetty |
| 258 | IT | 219302470 | Nikunj Hemani |
| 259 | Btech IT | 219302337 | Sarthak Agarwal |



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|-----|----------------------|------------|------------------------|
| 260 | ECE | 189402067 | Aditi Vyas |
| 261 | Mechatronics | 219403021 | Anirudh Subramani |
| 262 | CSE AI&ML | 219310291 | Siva Sundar |
| 263 | CSE AI&ML | 219310231 | Veeraj reddy talasani |
| 264 | CIVIL | 219107001 | Mohd kaif |
| 265 | BJMC | 211201023 | Uma |
| 266 | CSE | 219301038 | Shayna Khanna |
| 267 | CSE AI&ML | 219310058 | Anupam Mukherjee |
| 268 | Btech CSE | 219310140 | Lasya Varma |
| 269 | BTech CSE | 219310305 | Amith Antony John |
| 270 | BTech CSE | 209301184 | Ashish Gupta |
| 271 | B.Tech IT | 219303151 | Shorya Kushwaha |
| 272 | B.Tech IT | 199302079 | Tarang Shivraj Jaiswal |
| 273 | CCE | 209303371 | Mehul Sinha |
| 274 | B. Tech. IT | 209302009 | Akshay Naik |
| 275 | B.Tech IT | 209302263 | Sayan Mitra |
| 276 | IT | 209302269 | Shashwat Nath |
| 277 | CSE | 209301270 | Arush raj agarwal |
| 278 | CSE | 219301150 | Jitendra Choudhary |
| 279 | CSE | 209302153 | Tushar Sureka |
| 280 | Interior design | 210606034 | Kreeti yadav |
| 281 | BBA | 210901251 | Shashank agrawal |
| 282 | B.Des fashion design | 200601011 | Brinda gupta |
| 283 | BBA | 210901347 | Aayush Lodha |
| 284 | Cse btech | 219301734 | Bhavy Chaudhary |
| 285 | B. Tech CSE | 219301219 | Abhigyan Seth |
| 286 | BTech/cse | 219301314 | Sarthak pannu |
| 287 | IOT and IS | 2139311305 | jay jain |
| 288 | Bba | 200901282 | Akshat jain |
| 289 | BBA | 200901186 | Charchit Taneja |
| 290 | BBA | 200901208 | Hrithek repuriya |
| 291 | BBA | 200901207 | Harsh Repuriya |
| 292 | B.tech CCE | 209303306 | Laasya Bobba |
| 293 | CSE | 189301044 | Karan Agrawal |
| 294 | Btech / Automobile | 189401024 | Somya Thakkar |
| 295 | B.tech | 219209011 | Wasif saifi |
| 296 | Bba | 210901224 | Shivam kumar |
| 297 | ECE | 209202030 | Dishank |
| 298 | Btech CSE | 219301242 | Khushi Gupta |
| 299 | Dse | 209303102 | Gaurav Sanghi |
| 300 | Btech Cse lot | 219311250 | Suryansh Prakash |
| 301 | BBA | 210901309 | Yashi Jain |
| 302 | CCE | 209303283 | Aman Aggarwal |
| 303 | BTech IT | 209302207 | Ananay Gupta |



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|-----|---|-----------|---------------------|
| 304 | Cce | 219303201 | Sona sharma |
| 305 | Btech Data Science | 219309030 | Khushi Rathi |
| 306 | BBA | 210901258 | Parth Bhardwaj |
| 307 | B. Tech Automobile | 189401025 | Kush Garg |
| 308 | BTech. ECE | 219202002 | Naman Toshniwal |
| 309 | B.tech Electrical And Computer Engineering | 219209017 | Maulik Agarwal |
| 310 | Mechatronics | 209403041 | Vedant Mistry |
| 311 | Mechatronics | 209403023 | Priyanshu Parikh |
| 312 | B.B.A | 210901180 | Akanshu |
| 313 | IT | 219302419 | Hrituparna Pathak |
| 314 | Mechatronics | 209403006 | Darshan Jain |
| 315 | B.Tech CSE | 209301305 | Navya Agarwal |
| 316 | Bba | 200901176 | Samarth agarwal |
| 317 | Machine learning and artificial intelligence | 219310004 | Pratham Prakash |
| 318 | Mechatronics | 209202206 | Sayush lakhawat |
| 319 | BBA | 200901171 | Mitisha Jain |
| 320 | BBA | 200901159 | Vidhi Bhatia |
| 321 | BTECH CCE | 209303137 | PIYUSH KUMAR |
| 322 | Computer Science | 219301285 | Parth |
| 323 | Btech(cse) | 219310257 | Aditya sharma |
| 324 | B-Tech Hons CSE (IOT&IS) | 219311192 | Devayan Mitra |
| 325 | CSE HONS (IOT&IS) | 219311192 | Devayan Mitra |
| 326 | BTECH CSE | 219301529 | Khushal Agarwal |
| 327 | Cse core | 219301341 | Aryan shah |
| 328 | Btech/CSE | 219301394 | Shubham Garg |
| 329 | CSE AIML | 219311278 | Chirag Aggarwal |
| 330 | CSE with specialisation in Artificial intelligence and machine learning | 219310264 | Chinmay Gupta |
| 331 | BTech - CSE | 219301428 | Ranbir Singh Reen |
| 332 | Department of business administration/ BBA | 190901027 | Akshat Chaudhary |
| 333 | B.tech. CCE | 219303029 | Ishant Chawla |
| 334 | DATA SCIENCE ENGINEERING | 219309156 | Ritika Gupta |
| 335 | BA LLB | 211301024 | Prayansh Garhwal |
| 336 | Cse | 219301207 | Rishabh bassi |
| 337 | CSE | 219311150 | ARYAN VERMA |
| 338 | IT | 209303238 | Prajwal Bang |
| 339 | Bba | 200901215 | Priyanshu sethi |
| 340 | B.Tech Computer Science and Engineering | 209301538 | Shivansh Dhar Singh |
| 341 | B.tech (HONS) CSE specialisation in IOT and IS | 219302390 | Sahil mahajan |
| 342 | Information Technology | 209302191 | Mumuksh Srivastava |
| 343 | CSE | 219310209 | Ashrith Sindhunoori |
| 344 | Computer Science Engineering[CSE] | 219301042 | Aviraj Arora |



| | | | |
|-----|----------------------------------|-----------|-------------------|
| 345 | CCE | 219303188 | Ritika Mehta |
| 346 | B-Tech(CSE) | 219301749 | Sahil Dhanani |
| 347 | CSE | 219301164 | Swaraj Singh Negi |
| 348 | BTECH - CSE | 219301166 | Adyasa Patnaik |
| 349 | B Tech/CCE | 209303226 | Meghaj Garg |
| 350 | CSE(IOT and Intelligent Systems) | 219311060 | Piyush Sahoo |
| 351 | Information Technology | 219302500 | Aayansh Singh |
| 352 | B Tech/Mechanical | 209402014 | Aditya Garg |
| 353 | IT | 209302374 | siddharth raj |
| 354 | CSE (AI&ML) | 219311291 | Preet Kalani |
| 355 | Computer science | 219310004 | Pratham Prakash |
| 356 | Information Technology (IT) | 209302290 | ANENTJAY SIINGH |
| 357 | CSE WITH IOT | 219311066 | DEVANSH |
| 358 | CSE with IOT | 219311117 | Alok Ankit |
| 359 | B TECH DATA SCIENCE | 219309122 | Vandit verma |
| 360 | Computer Science | 219311135 | Mitul Dhing |



List of students registered in Innovation activities



| Sl no | Reg No of student | Name of the student | Name of Innovation event | Date of event |
|-------|-------------------|-------------------------|--------------------------|---------------|
| 1 | 209202022 | Aryan Piyush | PROJECT EXPO | 11-11-2022 |
| 2 | 209202086 | Avneesh Sharma | PROJECT EXPO | 11-11-2023 |
| 3 | 209202149 | Nikhita Gondane | PROJECT EXPO | 11-11-2022 |
| 5 | 209205038 | Vanshdeep Singh Chopra | PROJECT EXPO | 11-11-2022 |
| 6 | 209205029 | Arya Nitin Ashar | PROJECT EXPO | 11-11-2022 |
| 7 | 199102013 | Aadil Khalid Khan | PROJECT EXPO | 11-11-2022 |
| 8 | 209202228 | Abhinandan Kumar Tiwary | PROJECT EXPO | 11-11-2022 |
| 9 | 209205035 | Nishant Kumar Tyagi | PROJECT EXPO | 11-11-2022 |
| 10 | 209202086 | Avneesh Sharma | PROJECT EXPO | 11-11-2022 |
| 11 | 209403016 | Darshan Kapoor | PROJECT EXPO | 11-11-2022 |
| 12 | 209202204 | Jay Shah | PROJECT EXPO | 11-11-2022 |
| 13 | 209202153 | Praneeth maleedu | PROJECT EXPO | 11-11-2022 |
| 14 | 209202204 | Shah Jay | PROJECT EXPO | 11-11-2022 |
| 15 | 209202007 | PRANALI SAXENA | PROJECT EXPO | 11-11-2022 |
| 16 | 209202168 | Utkarsh Raj | PROJECT EXPO | 11-11-2022 |
| 17 | 209202108 | Natasha Sanyal | PROJECT EXPO | 11-11-2022 |
| 18 | 209202063 | Shobhit | PROJECT EXPO | 11-11-2022 |
| 19 | 209202167 | Aryan Shreyas Chitale | PROJECT EXPO | 11-11-2022 |
| 20 | 219302198 | Gautam Vhavle | PROJECT EXPO | 11-11-2022 |
| 21 | 209205014 | Pracheth Dasika | PROJECT EXPO | 11-11-2022 |
| 22 | 199102004 | Devansh Jain | PROJECT EXPO | 11-11-2022 |
| 23 | 209202239 | Vansh Bhansali | PROJECT EXPO | 11-11-2022 |
| 24 | 209202159 | Suhani Patil | PROJECT EXPO | 11-11-2022 |
| 25 | 209205052 | Mohit Choudhary | PROJECT EXPO | 11-11-2022 |
| 26 | 209202169 | Abhishek Deep | PROJECT EXPO | 11-11-2022 |
| 27 | 209202067 | Himanshu Jadhav | PROJECT EXPO | 11-11-2022 |



| | | | | |
|----|-----------|-------------------------|--------------|------------|
| 28 | 209202055 | Sampath | PROJECT EXPO | 11-11-2022 |
| 29 | 209202067 | Himanshu Jadhav | PROJECT EXPO | 11-11-2022 |
| 30 | 209202047 | Abhinav kumar | PROJECT EXPO | 11-11-2022 |
| 31 | 209202161 | Rasika | PROJECT EXPO | 11-11-2022 |
| 32 | 209202087 | Shivam Singh Dasauni | PROJECT EXPO | 11-11-2022 |
| 33 | 209205025 | Maitreya Sawant | PROJECT EXPO | 11-11-2022 |
| 34 | 209205046 | Anuj Upadhyay | PROJECT EXPO | 11-11-2022 |
| 35 | 209403007 | Yatin Kohli | PROJECT EXPO | 11-11-2022 |
| 36 | 209202149 | Nikitha | PROJECT EXPO | 11-11-2022 |
| 37 | 209202196 | Kumar ayush | PROJECT EXPO | 11-11-2022 |
| 38 | 209202095 | Ajsusabi | PROJECT EXPO | 11-11-2022 |
| 39 | 209202218 | Himanshu Kumar | PROJECT EXPO | 11-11-2022 |
| 40 | 209202163 | Sihil | PROJECT EXPO | 11-11-2022 |
| 41 | 209205044 | Sanskar Awate | PROJECT EXPO | 11-11-2022 |
| 42 | 209202108 | Natasha | PROJECT EXPO | 11-11-2022 |
| 43 | 209202133 | Shudanshu mishra | PROJECT EXPO | 11-11-2022 |
| 44 | 209101010 | Ridhi | PROJECT EXPO | 11-11-2022 |
| 45 | 209202240 | Krishi Jalan | PROJECT EXPO | 11-11-2022 |
| 46 | 209202207 | Piyushraj Singh | PROJECT EXPO | 11-11-2022 |
| 47 | 209202278 | Divyansh Sachdev | PROJECT EXPO | 11-11-2022 |
| 48 | 209202289 | Shruti Rajdhar | PROJECT EXPO | 11-11-2022 |
| 49 | 209202207 | Sharwar Ahmed Chowdhury | PROJECT EXPO | 11-11-2022 |
| 50 | 209202207 | PRATIK NAG | PROJECT EXPO | 11-11-2022 |
| 51 | 209202207 | Dipannita Das | PROJECT EXPO | 11-11-2022 |
| 52 | 209202207 | Turjo Roy | PROJECT EXPO | 11-11-2022 |
| 53 | 209202207 | PRATIK NAG | PROJECT EXPO | 11-11-2022 |
| 54 | 209202207 | Priyanshi mittal | PROJECT EXPO | 11-11-2022 |
| 55 | 209202207 | Lalit Kumar Yadav | PROJECT EXPO | 11-11-2022 |
| 56 | 209202247 | Anshul Kumar Jain | PROJECT EXPO | 11-11-2022 |



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|----|------------|---|-----------------|------------|
| 57 | 209202207 | Anushka Patel | PROJECT EXPO | 11-11-2022 |
| 58 | 209202224 | Ashish Kumar | PROJECT EXPO | 11-11-2022 |
| 59 | 209202207 | Meena Ashwini Seetaram | PROJECT EXPO | 11-11-2022 |
| 60 | 209202207 | Sanjana Jawaria | PROJECT EXPO | 11-11-2022 |
| 61 | 209202207 | Shubham Jain | PROJECT EXPO | 11-11-2022 |
| 62 | 209202207 | Pratik Singh | PROJECT EXPO | 11-11-2022 |
| 63 | 209202207 | Utsav Jain | PROJECT EXPO | 11-11-2022 |
| 64 | 2090223232 | Abhinav kumar | PROJECT EXPO | 11-11-2022 |
| 65 | 199302112 | Siddhesh Sandeep Kataria [IT - 2019] | Ignite workshop | 31-10-2022 |
| 66 | 199302115 | Shivam Gupta [IT - 2019] | Ignite workshop | 31-10-2022 |
| 67 | 201015027 | Arnav Gandotra [BCA - 2020] | Ignite workshop | 31-10-2022 |
| 68 | 209202122 | Anushka Singh [CCE - 2020] | Ignite workshop | 31-10-2022 |
| 69 | 209202154 | Devyani Katre [CCE - 2020] | Ignite workshop | 31-10-2022 |
| 70 | 209301273 | Sonam [CSE - 2020] | Ignite workshop | 31-10-2022 |
| 71 | 209301443 | Sumeet Das[CSE - 2020] | Ignite workshop | 31-10-2022 |
| 72 | 209301457 | Ayush Kumar[CSE - 2020] | Ignite workshop | 31-10-2022 |
| 73 | 209301509 | Aditya Sharma[CSE - 2020] | Ignite workshop | 31-10-2022 |
| 74 | 209301627 | Manas Sharma [CSE - 2020] | Ignite workshop | 31-10-2022 |
| 75 | 209302005 | Shivam J Chourasia [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 76 | 209302016 | Aman Mukherjee [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 77 | 209302026 | Akshat Garg [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 78 | 20930204 | Rishabh Rajesh Jha [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 79 | 209302077 | Shivansh Ojha [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 80 | 209302081 | Yashvardhan Jaswal [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 81 | 209302087 | Kushagra Chauhan [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 82 | 209302088 | Prajwal Singh Shekhawat [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 83 | 209302107 | Saubhagya Chopra [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 84 | 209302123 | Shashwat Mehrotra [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 86 | 209302231 | Jaimin Jagdish Judal[Information Technology - 2020] | Ignite workshop | 31-10-2022 |



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|-----|-----------|---|-----------------|------------|
| 87 | 209302285 | Anshika Jaiswal [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 88 | 209302290 | Anentjay Siingh [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 91 | 209302323 | Priyam Agarwal [IT - 2020] | Ignite workshop | 31-10-2022 |
| 94 | 209302345 | Arihant Sogani [IT - 2020] | Ignite workshop | 31-10-2022 |
| 95 | 209302363 | Dev Jitendra Shah [IT - 2020] | Ignite workshop | 31-10-2022 |
| 96 | 209302382 | Kartikey Chandel | Ignite workshop | 31-10-2022 |
| 97 | 209302413 | Yashika Yadav [Information Technology - 2020] | Ignite workshop | 31-10-2022 |
| 98 | 209303087 | Akash Sambhaji Shedage[CCE - 2020] | Ignite workshop | 31-10-2022 |
| 99 | 209303121 | Dhruv Ojha [Data Science And Engineering - 2020] | Ignite workshop | 31-10-2022 |
| 100 | 209303218 | Sanyam Jain [IT - 2020] | Ignite workshop | 31-10-2022 |
| 101 | 209303249 | Sudhanshu Vashisth [Data Science And Engineering - 2020] | Ignite workshop | 31-10-2022 |
| 102 | 209303337 | Saagar Bafna [CCE - 2020] | Ignite workshop | 31-10-2022 |
| 103 | 209309022 | Manushi Shashank [B.Tech - Data Science and Engineering - | Ignite workshop | 31-10-2022 |
| 104 | 209309121 | Arnav Jain [IT - 2020] | Ignite workshop | 31-10-2022 |
| 105 | 209309126 | Piyush Joshi [Data Science And Engineering - 2020] | Ignite workshop | 31-10-2022 |
| 106 | 209309129 | Ayush Jain [DATA SCIENCE - 2020] | Ignite workshop | 31-10-2022 |
| 107 | 209402002 | Himanish Bhattacharya [Mechatronics- 2020] | Ignite workshop | 31-10-2022 |
| 108 | 209403066 | Nivesh Kumar Agarwal [MECHATRONICS - 2020] | Ignite workshop | 31-10-2022 |
| 109 | 211201068 | Reet Kler [BJMC - 2021] | Ignite workshop | 31-10-2022 |
| 110 | 219301092 | Azam Khan [CSE - 2021] | Ignite workshop | 31-10-2022 |
| 151 | 219303137 | Kunal Singh Chauhan [Information Technology - 2021] | Ignite workshop | 31-10-2022 |
| 152 | 219303143 | Kairav [Information Technology - 2021] | Ignite workshop | 31-10-2022 |
| 153 | 219303155 | Jitesh Niteen Bobade [Information Technology - 2021] | Ignite workshop | 31-10-2022 |
| 154 | 219303157 | Tanmay Tripathi [CCE - 2021] | Ignite workshop | 31-10-2022 |
| 155 | 219303165 | Amrita Prasad [Information Technology - 2021] | Ignite workshop | 31-10-2022 |
| 156 | 219303166 | Raghav [CCE - 2021] | Ignite workshop | 31-10-2022 |
| 157 | 219303168 | Harshvardhan Singh [CCE - 2021] | Ignite workshop | 31-10-2022 |
| 158 | 219303216 | Yash Mohan [Information Technology - 2021] | Ignite workshop | 31-10-2022 |
| 159 | 219309004 | Angad Singh Dhaliwal [DATA SCIENCE AND ENGINEERING - | Ignite workshop | 31-10-2022 |



| | | | | |
|-----|-----------|---|-----------------|------------|
| 160 | 219309008 | Kashish Mittal [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 161 | 219309013 | Cheshtha Vasudeva [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 162 | 219309014 | Aaryan Tyagi [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 163 | 219309021 | Ayush Anil Trivedi [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 164 | 219309023 | Suman Khangarot [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 165 | 219309027 | Kartikeya Jain [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 166 | 219309032 | Bhavya Rupesh Khot [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 167 | 219309035 | Hardik Patel [Information Technology - 2021] | Ignite workshop | 31-10-2022 |
| 168 | 219309050 | Priyanshu Kachalia [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 169 | 219309056 | Aditi Chandorkar [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 170 | 219309061 | Aditya Salgaonkar [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 171 | 219309067 | Arushi Kashyap [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 172 | 219309071 | Ananyah Munjal [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 173 | 219309072 | Aakarsh Ahlawat [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 174 | 219309075 | Agrima Goel [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 175 | 219309076 | Chhavi Mathur [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 176 | 219309097 | Lasya Priya [Data Science - 2021] | Ignite workshop | 31-10-2022 |
| 177 | 219309160 | Parisa Maggon [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 178 | 219309166 | Divyansh Raiswal [DATA SCIENCE AND ENGINEERING - 2021] | Ignite workshop | 31-10-2022 |
| 179 | 219310152 | Juhi Singh Rathore [Artificial Intelligence & Machine Learning - | Ignite workshop | 31-10-2022 |
| 180 | 219310165 | Abhishek Kumar [Artificial Intelligence & Machine Learning - | Ignite workshop | 31-10-2022 |
| 181 | 219310250 | Vaidik Mandloi [Artificial Intelligence & Machine Learning - | Ignite workshop | 31-10-2022 |
| 182 | 219310261 | Ananya Bhardwaj [Artificial Intelligence & Machine Learning - | Ignite workshop | 31-10-2022 |
| 183 | 219310288 | Shivangi Srivastava [Artificial Intelligence & Machine Learning - | Ignite workshop | 31-10-2022 |
| 184 | 21931029 | Manu Gupta [Artificial Intelligence & Machine Learning - 2021] | Ignite workshop | 31-10-2022 |
| 185 | 21931029 | Aishwarya Basliyal [CSE - 2021] | Ignite workshop | 31-10-2022 |
| 186 | 21931030 | Aditi Jaiswal [Artificial Intelligence & Machine Learning - 2021] | Ignite workshop | 31-10-2022 |
| 187 | 21931032 | Ansh Srivastava [Artificial Intelligence & Machine Learning - | Ignite workshop | 31-10-2022 |
| 188 | 21931103 | Aryav Srivastava [IOT AND INTELLIGENT SYSTEM - 2021] | Ignite workshop | 31-10-2022 |



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|-----|-----------|---|-----------------|------------|
| 189 | 21931118 | Yashvardhan Dhaka [IOT And Intelligent System - 2021] | Ignite workshop | 31-10-2022 |
| 190 | 22920206 | Yuvraj Singh Sikarwar [ECE - 2022] | Ignite workshop | 31-10-2022 |
| 191 | 22930232 | Garvit Singh [IT - 2022] | Ignite workshop | 31-10-2022 |
| 192 | 22930301 | Varun [CCE - 2022] | Ignite workshop | 31-10-2022 |
| 193 | 22930330 | Shresth Aggarwal [CCE - 2022] | Ignite workshop | 31-10-2022 |
| 194 | 22930700 | Rohan Gupta [M. TECH (DATA SCIENCE) - 2022] | Ignite workshop | 31-10-2022 |
| 195 | 22930700 | Vinod Joshi [M. TECH (DATA SCIENCE) - 2022] | Ignite workshop | 31-10-2022 |
| 196 | 22931119 | Kartik Meel [CSE (IOT AND INTELLIGENT SYSTEM) - 2022] | Ignite workshop | 31-10-2022 |
| 197 | 219311150 | Aryan Verma | Ignite Ideathon | 31-10-2022 |
| 198 | 20931443 | Sumeet Das | Ignite Ideathon | 31-10-2022 |
| 199 | 20932284 | Voldemort | Ignite Ideathon | 31-10-2022 |
| 200 | 20939051 | Shubhangi Ghosh | Ignite Ideathon | 31-10-2022 |
| 201 | 20939088 | Shubhra Mittal | Ignite Ideathon | 31-10-2022 |
| 202 | 20933121 | Dhruv Ojha | Ignite Ideathon | 31-10-2022 |
| 203 | 20933041 | Geetika Porwal | Ignite Ideathon | 31-10-2022 |
| 204 | 20932035 | Bhavya Arora | Ignite Ideathon | 31-10-2022 |
| 205 | 20939049 | Vanya Agarwal | Ignite Ideathon | 31-10-2022 |
| 206 | 20932327 | Ruhi Kumari | Ignite Ideathon | 31-10-2022 |
| 207 | 21932484 | Jairam Subhash | Ignite Ideathon | 31-10-2022 |
| 208 | 21933130 | Kapil Raisinghan i | Ignite Ideathon | 31-10-2022 |
| 209 | 22933301 | Shresth | Ignite Ideathon | 31-10-2022 |
| 210 | 20932411 | Prashant Singh | Ignite Ideathon | 31-10-2022 |
| 211 | 20939104 | Shreyansh jain | Ignite Ideathon | 31-10-2022 |
| 212 | 20932237 | Pranjali | Ignite Ideathon | 31-10-2022 |
| 213 | 21932484 | Jairam Subhash | Ignite Ideathon | 31-10-2022 |
| 214 | 20932290 | Anentjay Siingh | Ignite Ideathon | 31-10-2022 |
| 215 | 22937002 | Rohan Gupta | Ignite Ideathon | 31-10-2022 |
| 216 | 21933062 | Nachiket Thapliyal | Ignite Ideathon | 31-10-2022 |
| 217 | 21932142 | Neel | Ignite Ideathon | 31-10-2022 |



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|-----|-----------|--------------------------|-----------------|------------|
| 218 | 20932203 | Sandeep Kumar | Ignite Ideathon | 31-10-2022 |
| 219 | 21939165 | Udit | Ignite Ideathon | 31-10-2022 |
| 220 | 21933137 | Kunal Singh Chauhan | Ignite Ideathon | 31-10-2022 |
| 221 | 20932291 | Krish Chugh | Ignite Ideathon | 31-10-2022 |
| 222 | 219310144 | Aditya Kumar Sinha | Ignite Ideathon | 31-10-2022 |
| 223 | 20932123 | Shashwat Mehrotra | Ignite Ideathon | 31-10-2022 |
| 224 | 20933204 | Divij Goyal | Ignite Ideathon | 31-10-2022 |
| 225 | 20933162 | Khushi Srivastava | Ignite Ideathon | 31-10-2022 |
| 226 | 20932034 | Shubhanga m Kumar Mishra | Ignite Ideathon | 31-10-2022 |
| 227 | 22931675 | Adhayan Grover | Ignite Ideathon | 31-10-2022 |
| 228 | 219311215 | Suvijay Mahendru | Ignite Ideathon | 31-10-2022 |
| 229 | 229310399 | Kartikey singh chouhan | Ignite Ideathon | 31-10-2022 |
| 230 | 20933087 | Akash Shedage | Ignite Ideathon | 31-10-2022 |
| 231 | 219310089 | Vibhor Sharma | Ignite Ideathon | 31-10-2022 |
| 232 | 21939139 | Radhika Sharma | Ignite Ideathon | 31-10-2022 |
| 233 | 20922224 | Aditya Sharma | Ignite Ideathon | 31-10-2022 |
| 234 | 21939051 | Arnav Mishra | Ignite Ideathon | 31-10-2022 |
| 235 | 21932400 | Anshika singh | Ignite Ideathon | 31-10-2022 |
| 236 | 20932298 | Nimisha Giri | Ignite Ideathon | 31-10-2022 |
| 237 | 22937006 | Vinod Joshi | Ignite Ideathon | 31-10-2022 |
| 238 | 21939107 | Rishabh Rao | Ignite Ideathon | 31-10-2022 |
| 239 | 211015084 | Anuj Gupta | Ignite Ideathon | 31-10-2022 |
| 240 | 20932120 | Anubhav Bhatt | Ignite Ideathon | 31-10-2022 |
| 241 | 21932289 | Somesh Kumar | Ignite Ideathon | 31-10-2022 |
| 242 | 20932320 | Kashish Verma | Ignite Ideathon | 31-10-2022 |
| 243 | 20931518 | Aryan Arora | Ignite Ideathon | 31-10-2022 |
| 244 | 20932075 | Triparna Baishnab | Ignite Ideathon | 31-10-2022 |
| 245 | 20932102 | Gaurangi Sharma | Ignite Ideathon | 31-10-2022 |
| 246 | 229310433 | Amogh Bajpai | Ignite Ideathon | 31-10-2022 |



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|-----|-----------|----------------------|-----------------|------------|
| 247 | 219311133 | Mohit goyal | Ignite Ideathon | 31-10-2022 |
| 248 | 22932354 | Abhishek kumar gupta | Ignite Ideathon | 31-10-2022 |
| 249 | 20933300 | Raghav Agal | Ignite Ideathon | 31-10-2022 |
| 250 | 219310042 | Anish Sharma | Ignite Ideathon | 31-10-2022 |
| 251 | 2193913 | Shivain | Ignite Ideathon | 31-10-2022 |
| 252 | 20932405 | Harshil Kumar | Ignite Ideathon | 31-10-2022 |
| 253 | 21939017 | Samridd h tongi | Ignite Ideathon | 31-10-2022 |
| 254 | 211015066 | Gautam samblani | Ignite Ideathon | 31-10-2022 |
| 255 | 2093238 | Umang | Ignite Ideathon | 31-10-2022 |
| 256 | 20931273 | Sonam Chhikara | Ignite Ideathon | 31-10-2022 |
| 257 | 229310304 | Harsh Gahlot | Ignite Ideathon | 31-10-2022 |
| 258 | 21933030 | Ragha Jaiswal | Ignite Ideathon | 31-10-2022 |
| 259 | 22932476 | Aseem rai | Ignite Ideathon | 31-10-2022 |
| 260 | 20933337 | Saagar Bafna | Ignite Ideathon | 31-10-2022 |
| 261 | 21931156 | Ojas | Ignite Ideathon | 31-10-2022 |
| 262 | 21939053 | Aryam an Tripath y | Ignite Ideathon | 31-10-2022 |
| 263 | 20933199 | vansh sharma | Ignite Ideathon | 31-10-2022 |
| 264 | 20939093 | Harshit Gupta | Ignite Ideathon | 31-10-2022 |
| 265 | 211015049 | Sneha | Ignite Ideathon | 31-10-2022 |
| 266 | 20932102 | Gaurangi | Ignite Ideathon | 31-10-2022 |
| 267 | 20931457 | Ayush Kumar | Ignite Ideathon | 31-10-2022 |
| 268 | 21932227 | Shivam Tyagi | Ignite Ideathon | 31-10-2022 |
| 269 | 20931627 | Manas Sharma | Ignite Ideathon | 31-10-2022 |
| 270 | 20933249 | Sudhanshu | Ignite Ideathon | 31-10-2022 |
| 271 | 211015032 | Varun jindal | Ignite Ideathon | 31-10-2022 |
| 272 | 20932222 | Naavya Jain | Ignite Ideathon | 31-10-2022 |
| 273 | 20922154 | Devyani Katre | Ignite Ideathon | 31-10-2022 |
| 274 | 20922024 | Akshat Jain | Ignite Ideathon | 31-10-2022 |
| 275 | 20939132 | Shorya Goel | Ignite Ideathon | 31-10-2022 |



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|-----|-----------|-----------------------|--------------------|------------|
| 276 | 211015038 | Khemend ra Singh (KD) | Ignite Ideathon | 31-10-2022 |
| 277 | 20932302 | Jahnvi Agarwal | Ignite Ideathon | 31-10-2022 |
| 278 | 20922122 | Anushka Singh | Ignite Ideathon | 31-10-2022 |



Statups Incubated in year 2022



| Sl no | Department | Incubation Centre | Name of Startup | Date of Incubation | Name of Promoters (Separated by comma) |
|-------|-------------------|--------------------|-----------------|--------------------|--|
| 1 | B.Com, BCA,CSE | Manipal University | MyLivin | 07-Apr-22 | Mr. Neeraj Jangid, Dr Sonali Sharma, Dr Ravindra Yadav |
| 2 | ME,CSE | Manipal University | SERVING DRIVES, | 06-Sep-22 | Mr. Aditya Vikram Gupta, Mr. Srijan Gauta, |
| 3 | Mechatronics, ECE | Manipal University | ALMIIGHT | 28-04-2022 | Mr. Ashish Tummuri, Mr. Piyush Jaiswal, Mr. Mohit Kumar Mishra |
| 4 | Mechatronics | Manipal University | CORPIFT | 10-Dec-22 | Mr. Himanish Bhattacharya |
| 5 | Fashion Design | Manipal University | DESIGN KONNECT | 08-06-2022 | Ms. Divya Maheshwari, Dr. Kusum Kanwar, Dr. Sampath Kumar Jinka, Ms. Supriya Singh |
| 6 | Fashion Design | Manipal University | ALANKRATI | 08-Jun-22 | Ms. Priyanshi Pareek, Dr. Kusum Kanwar |



Number of IPRs for the year 2022

| SI No | Department | Name of Inventor-1 | Type 1. Copyright 2. Patent 3. Design | Application no. | Title | Year |
|-------|--|---------------------------|--|-----------------|---|------------|
| 1 | Hotel Management | Dr Amit Datta | Patent | 202206513 | ELECTRICALLY HEATED TEA COZY | 28-09-2022 |
| 2 | Chemical Engineering | Dr Anees Ahmed Yunus Khan | Patent | 202211013808 | Method of Preparation of Macroporous Monoliths with Tunable Hydrophobicity by Adsorption of Candle Soot Particles | 14-03-2022 |
| 3 | Computer and communication Engineering | Dr Arjun Singh | Patent | 202206039 | A HIGHLY REGULARIZED Q-LEARNING REINFORCEMENT MODEL TO PREVENT DATA FORGERY | 28-09-2022 |
| 4 | Computer and communication Engineering | Dr Geeta Rani | Patent | 202211027934 | INTELLIGENT FOG DEVICE FOR SAVING LIFE ON RAILWAY TRACK | 16-05-2022 |
| 5 | Computer and communication Eng | Dr Geeta Rani | Patent | 202206040 | AN IOT BASED FOOD QUANTITY AND INGREDIENT PREDICTING SYSTEM | 28-09-2022 |
| 6 | Computer and communication Engineering | Dr Manoj Kumar Sharma | Patent | 202211028701 | Portable Coconut Oil Melting Device | 18-05-2022 |
| 7 | Mechatronics Engineering | Dr Mrinmoy Mishra | Patent | 202203893 | Method of reducing resistance of transparent conducting thin films using novel chemical reduction | 25-05-2022 |
| 8 | Information and Technology | Dr Nripendra Narayan Das | Patent | 202211036401 | MONITORING CENTRIC DRIVER FATIGUE DISCERNMENT BASED ON COMPUTER VISION | 24-06-2022 |
| 9 | Mechanical Engineering | Dr Ramanpreet Singh | Patent | 202211020125 | FINGER REHABILITATION EXOSKELETON DEVICE | 04-04-2022 |

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|----|----------------------------------|---------------------------|-----------|--------------|---|------------|
| 10 | Mechatronics Engineering | Dr Shahbaz Ahmed Siddiqui | Patent | 202211039592 | Hydrophobic coating and patterning the inner surface of a micro/nano pipette | 11-07-2022 |
| 11 | Information and Technology | Mr Ankit Mundra | Patent | 202206618 | NOVEL IOT BASED SOLUTION FOR GARBAGE LEVEL DETECTION | 15-06-2022 |
| 12 | Computer Science and Engineering | Mr Tarun Jain | Patent | 202211035422 | Detection Of Autism Spectrum Disorder (ASD) Using Machine Learning & Deep Learning | 21-06-2022 |
| 13 | Information and Technology | Ms Neha V Sharma | Patent | 202203078 | A SURVEILLANCE SYSTEM FOR TRACKING AND COUNTING PEOPLE AND ENTITIES | 16-03-2022 |
| 14 | Mechatronics Engineering | Ms Princy Randhawa | Patent | 2843 | Low Cost IoT Enabled Anti-Theft Device for Two Wheeled Vehicles | 09-03-2022 |
| 15 | Chemical Engineering | Dr Anees Ahmed Yunus Khan | Patent | 202211060708 | A METHOD OF PREPARATION OF JANUS TYPE SILICAMICROSPHERES FOR PROLONGED RELEASE OF CARRIER MOLECULES | 04-11-2022 |
| 16 | Computer Science and Engineering | Dr. Arvind Dhaka | Patent | 2021105091 | A DISEASED PERSON IDENTIFICATION AND TRACKING SYSTEM BASED ON BLOCK CHAIN AND IOT | 24-04-2022 |
| 17 | Mathematics& Statistics | Dr Ashish Kumar | Copyright | 137492022COL | Estimator using Median as Auxiliary Information for Population Mean in Stratified Random Sampling | 21-12-2022 |
| 18 | Computer Science and Engineering | Dr. Ashish Kumar | Patent | 2021104773 | EMOTION CLASSIFICATION IN HINGLISH SOCIAL MEDIA TEXT USING SUPERVISED MACHINE LEARNING ALGORITHM | 06-04-2022 |
| 19 | Mechanical Engineering | Dr Ashok Kumar Sharma | Design | 347597001 | Bottle | 28-12-2022 |
| 20 | Information and Technology | Dr Avani Sharma | Patent | 202211050517 | SENSOR ENABLED RETRACTABLE SAFETY CUSHION DEPLOYING BED AND A METHOD THEREOF | 09-09-2022 |

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|----|----------------------------------|-----------------------------------|-----------|--------------|--|------------|
| 21 | Civil Engineering | Dr Gaurav Sancheti | Patent | 202211050127 | CONCRETE COMPOSITION WITH SAW DUST AND HUMAN HAIR AND METHOD OF MANUFACTURING THEREOF | 09-09-2022 |
| 22 | Mechanical Engineering | Dr Anand Pandey | Copyright | 268952021COL | Project Based Learning: Useful in Engineering Education As per OBE | 12-04-2022 |
| 23 | Architecture | Dr Madhura Yadav | Patent | 202211044297 | Multifunction Foldable Drawing Bench | 19-08-2022 |
| 24 | Biosciences | Dr. Mousumi Debnath | Patent | 202011037184 | A Novel Approach For Using Biosurfactant in Moving Bed Biofilm Reactor | 05-06-2022 |
| 25 | Biosciences | Dr. Mousumi Debnath | Patent | 202011039946 | Friendly Wash Detergent Additive With Nanobiosurfactant And Extremozymes | 06-05-2022 |
| 26 | Computer Science and Engineering | Dr. Prakash Chandra Sharma | Patent | 2021104772 | Centralized Mini Pool Based Distributed Hybrid Novel Approach for Channel Assignment in Cellular Network | 04-05-2022 |
| 27 | Computer Science and Engineering | Mr. Deevesh Choudhary | Patent | 2021105073 | Alarm Buzzer for Baby Fall Protector Bed | 20-04-2022 |
| 28 | Computer and communication Eng | Dr Punit Gupta | Patent | 202207018 | POWER EFFICIENT ANT LION ALGORITHM BASED RESOURCE OPTIMIZATION FOR CLOUD INFRASTRUCTURE | 28-09-2022 |
| 29 | Computer Science Engineering | Dr Roheet Bhatnagar | Patent | 202206565 | SMART PHEROMONE TRAP DEVICE AND AN INTELLIGENT FRAMEWORK FOR EARLY DETECTION OF FALL ARMY WORM | 28-09-2022 |
| 30 | Fashion Designing | Dr Sampath Kumar Padmanabha Jinka | Patent | 202111013509 | weaving system for weaving two different fabrics simultaneously in handloom | 25-11-2022 |
| 31 | Mechanical Engineering | Dr. Sanchita B Ghosh | Patent | 202011000805 | CONDUCTIVE HYDROGEL NANOCOMPOSITE AND PROCESS OF PREPARATION THEREOF | 25-02-2022 |

| | | | | | | |
|----|--------------------------------|---------------------------|-----------|--------------|---|------------|
| 32 | Computer Science Engineering | Dr Sandeep Chaurasia | Patent | 202211051423 | SYSTEM AND METHOD FOR GENERATING AUDIO INFORMATION TO GUIDE A VISUALLY IMPAIRED USER | 16-09-2022 |
| 33 | Computer Science Engineering | Dr Shikha Mundra | Patent | 202206927 | INTELLIGENT IOT TECHNIQUE FOR HEALTH MONITORING USING SMART BRACELET | 31-08-2022 |
| 34 | Computer Applications | Dr Shilpa Kulkarni Sharma | Patent | 202211073452 | COMPUTER OPERATED METHOD FOR ONTOLOGY DRIVEN OBJECT- ORIENTED SYSTEM | 30-12-2022 |
| 35 | Computer and communication Eng | Dr Sourabh Singh Verma | Patent | 202211072405 | ANIMAL VEHICLE COLLISION AVOIDANCE SYSTEM | 30-12-2022 |
| 36 | Electrical Engineering | Dr Sunil Kumar Goyal | Copyright | 236492021COL | POWER SYSTEM FAULT RECOGNITION USING ALIENATION COEFFICIENT AND WIGNER DISTRIBUTION | 20-05-2022 |
| 37 | Electrical Engineering | Dr Sunil Kumar Goyal | Copyright | 233772021COL | DESIGN AND SYNTHESIS OF SUBSTITUTED PYRAZOLE-CHALCONE-COUMARIN HYBRID MOLECULES | 18-04-2022 |
| 38 | Electrical Engineering | Dr Sunil Kumar Goyal | Copyright | 252532021COL | A Comprehensive Transmission Congestion Management Methodology for a Competitive Electricity Market | 15-03-2022 |
| 39 | Department of Languages,,Lite | Dr Tanuja Yadav | Copyright | 79322022COL | Bilingualism and Mixed Method for Effective Teaching and Learning of the French Language | 14-04-2022 |
| 40 | Chemistry | Dr Veena Dhayal | Patent | 202211065181 | ANTICORROSIVE HYBRID COMPOSITE AND ITS METHOD OF PREPARATION THEREOF AND ITS COATINGS ON STEEL | 25-11-2022 |
| 41 | Computer and communication Eng | Dr Vijay Kumar Sharma | Patent | 8189 | A SECURE SYSTEM AND METHOD FOR IMAGE STEGANOGRAPHY USING MACHINE LEARNING AND GENETIC ALGORITHM | 28-09-2022 |
| 42 | Information and Technology | Dr Vivek Kumar Verma | Patent | 202206980 | Translation Model for Sign Language Dialects in India | 31-08-2022 |

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|----|----------------------------------|--------------------------|-----------|---------------|--|------------|
| 43 | Information and Technology | Mr Deevesh Choudhary | Copyright | 60312022COSW | Title: Deep learning model for mask-based person segretation | 08-07-2022 |
| 44 | Information and Technology | Mr Deevesh Choudhary | Patent | 202205880 | ANDROID BASED IOT ENABLED SMART MASK | 28-09-2022 |
| 45 | Electrical Engineering | Mr Himanshu Priyadarshi | Patent | 202211063668 | A METHOD FOR SYNTHESIS OF GAMMA IRON OXIDE NANO-PARTICLES USING NANO-SEDIMENTATION | 18-11-2022 |
| 46 | Electrical Engineering | Mr Himanshu Priyadarshi | Patent | 202211077036 | SYSTEM AND METHOD FOR BATTERY STATE ESTIMATION INCORPORATING VARIED GEOGRAPHICAL DATASET | 30-12-2022 |
| 47 | Mechanical Engineering | Mr Rahul Khatri | Patent | 202111050005 | Integrated Indoor-Outdoor Solar Cooking System with Thermal Energy Storage | 09-12-2022 |
| 48 | Computer Science and Engineering | Mr. Vijay Prakash Sharma | Patent | 2021105102 | UNSUPERVISED VIDEO SUMMARIZATION USING RESNET AND BIDIRECTIONAL LSTM | 13-04-2022 |
| 49 | Information and Technology | Mr Vijay Prakash Sharma | Patent | 202111061660 | AN AI BASED SYSTEM FOR RECEIVING FEEDBACK OF A READER IN ONLINE READING AND METHOD THEROF | 07-01-2022 |
| 50 | Information and Technology | Ms Neha V Sharma | Patent | 202110309 | Sign Language Translator | 30-03-2022 |
| 51 | Information and Technology | Ms Neha V Sharma | Patent | 202206564 | A METHOD FOR EXPLORATORY DATA ANALYSIS AND ENSEMBLE LEARNING BASED CLASSIFICATION OF UNSW-NB15 DATASET | 28-09-2022 |
| 52 | Computer Science & Engineering | Dr Sandeep Chaurasia | Copyright | SW152162022 | COLLINFO (COLLEGE INFORMATION DIRECTORY) | 24-01-2022 |
| 53 | Computer Science & Engineering | Mr Smaranika Mohapatra | Copyright | L-110863/2022 | Agro-Farm Crop Analysis & Management | 24-01-2022 |



MANIPAL UNIVERSITY
JAIPUR
(University under Section 2(f) of the UGC Act)

Activities conducted for Innovation in year 2022



**MANIPAL UNIVERSITY
JAIPUR**

MUJ/Q&C/22/F/1.01

Event Report Format



**MANIPAL UNIVERSITY
JAIPUR**

DIRECTORATE OF RESEARCH and E-Cell

Jointly Organized

**"UNDERSTANDING THE BASICS OF PATENT DRAFTING &
PROSECUTION IN INDIA"**

UNDER THE BANNER OF OPEN RESEARCH SERIES 2022

Type of Event: Awareness Session on IPR

03rd March 2022





Content

1. Introduction of the Event
2. Objective of the Event
3. Beneficiaries of the Event
4. Details of the Guests
5. Brief Description of the event
6. Geo-tagged Photographs
7. Brochure or creative of the event
8. Schedule of the Event
9. Attendance of the Event

1. Introduction of the Event

Directorate of Research and E-cell, Manipal University Jaipur is jointly organizing a Webinar on "Understanding the Basics of Patent Drafting & Prosecution in India" under the banner of Open Research Series 2022 on 3rd March 2022 from 11:00 Am to 01:00 PM. This webinar is mainly designed to provide more insight into Patent Novelty, Patent Search, and Patent Drafting Procedures. The details of the resource persons, lecture topics, date, and time of individual lectures are provided below.

2. Objective of the Event

Objective of the events are as follows:

- Patent Novelty,
- Patent Search,
- Patent Drafting Procedures
- Patent Filing
- Designing of Claims

3. Beneficiaries of the Event

- Students
- Faculty
- Newly Joined Faculty

4. Details of the Guests

Mr. **VIVEK SINGH** IP Attorney & Head-IP Prosecution Practice, Sagacious IP Vivek is an experienced IP Attorney and Patent Agent with Technical, Legal and Business background. He is actively working with Corporates, Start-ups & MSMEs to get their IP rights protected and enforced in India and globally. He has diverse knowledge and work experience of the domains like IP Strategy,





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Prosecution, Enforcement, IP Public Policy & Govt. Affairs, along with R&D and Product Development. In his previous role, he has served as a Deputy Director - IPR, FICCI (India's apex industry body). His area of work at FICCI includes engagement with Government and industry stakeholders on IP policy related matters. He has also worked with Ranbaxy Laboratories (India's largest pharma company), in the in-house IP Team and has also worked with IP law firms. In his entrepreneurial stint, Vivek was the founder of a start-up which was acquired by 1mg (India's largest healthcare platform). He got featured in the IAM's list of 'World's Leading Patent Professionals 2019 and 2020' for his well-deserved endeavors in the IP field.

Dr Shweta Sharma, Project Manager – Patent Drafting, Filing and Prosecution–Sagacious IP, Shweta Sharma is a Registered Indian Patent Agent with more than 5 years of experience in Intellectual Property Rights (IPR) and more than 13 years of experience in research. She possesses core technical knowledge and has broad experience in Indian patent law. She holds a PhD degree in Biotechnology from the International Center for Genetic Engineering and Biotechnology (ICGEB), New Delhi and did her post-doctoral research in Molecular Biology, University of Delhi.

5. Brief Description of the event (about 200 words)

| Time | Particular |
|-----------------|--|
| 11:00- 11:05am | Opening Remarks by Prof. Roheet Bhatnagar, Director, Research |
| 11:05 – 11:25am | Inaugural session Introductory Remark By Dr. Manish Rawat, Deputy Director, Research Context Setting by Mr. Vivek Singh IP Attorney & Head - IP Prosecution Practice, Sagacious IP |
| | Session on 'Understanding the basic concepts of Patent Drafting & Prosecution' Dr. Shweta Sharma, Project Manager – Patent Drafting, Filing and Prosecution– Sagacious IP |
| | Question /Answer |
| 12:50- 01:00pm | Vote of Thanks Ms. Yatika Rawat Manager-Business Development (IP Protection & Commercialization), Sagacious IP |





6. Photographs of Event

Webinar on Understanding the Basics of Patent Drafting & Prosecution in India

44:46

Recording and transcription have started. Let everyone know they're being recorded and transcribed. Privacy policy

Steps involved in Patent Prosecution

- Conceiving your invention
- Patentability/Prior Art search
- Patent Application Drafting
- Filing the Patent Application
- Publication of the Application
- Request for Examination
- Respond to the Objections
- GRANT OF PATENT

Shweta Sharma (SAGACIOUS IP)

Participants

- Dr. Anantkumar Dada Ozarkar [...]
- Dr. Anees Ahmed Yunus Khan [...]
- Dr. Ashima Bagaña [MU - Jaipur]
- Dr. Ashok Kumar Sharma [MUJ] External
- Dr. Bhavna Tripathi [MU - Jaipur]
- Dr. Deepika Bansal [MU - Jaipur]
- Dr. Dinesh Yadav [MU - Jaipur]
- Dr. Geeta Rani [MUJ] External

Webinar on Understanding the Basics of Patent Drafting & Prosecution in India

01:00:45

Recording and transcription have started. Let everyone know they're being recorded and transcribed. Privacy policy

Step 1 - Select the patent search databases

- Depends on how much time is available & how thorough the search needs to be.
- List of free patent databases:
 - Google patents (<https://patents.google.com/>)
 - European patent database (<http://ep.espacenet.com>)
 - The lens (<https://www.lens.org/>)
 - Free patent lens (<http://www.freepatentsonline.com/>)
- List of paid databases:
 - Information specialist searches (Questel orbit, Derwent, Patseer)

Shweta Sharma (SAGACIOUS IP)

Participants

- Dr. Ashok K.





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The top screenshot shows a slide titled "Step 1 - Select the patent search databases" with a Google Patents search interface. The middle and bottom screenshots show a grid of participants in a video conference, with a participant list on the right side of the interface.





7. Brochure or creative of the event (insert in the document only)

MANIPAL UNIVERSITY JAIPUR **MUJ** **A+** **Sagacious IP**
When Results Really Matter

OPEN RESEARCH WORKSHOP SERIES
DIRECTORATE OF RESEARCH

WEBINAR ON
UNDERSTANDING THE BASICS OF PATENT DRAFTING & PROSECUTION IN INDIA

Jointly Organized by
Directorate of Research & Directorate of Entrepreneurship Cell

3rd March, 2022 at 11:00 am -01:00 pm

Dr Shweta Sharma
Project Manager – Patent Drafting,
Filing and Prosecution– Sagacious IP

Mr VIVEK SINGH
IP Attorney & Head-IP
Prosecution Practice, Sagacious IP

Program Schedule

| Time | Particular |
|-----------------|--|
| 11:00- 11:05am | Opening Remarks by Prof. Roheet Bhatnagar, Director, Research |
| 11:05 – 11:25am | Inaugural session |
| | Introductory Remark By Dr. Manish Rawat, Deputy Director, Research |
| | Context Setting by Mr. Vivek Singh IP Attorney & Head - IP Prosecution Practice, Sagacious IP |
| 11:25- 12:35pm | Session on 'Understanding the basic concepts of Patent Drafting & Prosecution' Dr. Shweta Sharma, Project Manager – Patent Drafting, Filing and Prosecution– Sagacious IP |
| 12:35- 12:50pm | Question /Answer |
| 12:50- 01:00pm | Vote of Thanks Ms. Yatika Rawat Manager-Business Development (IP Protection & Commercialization), Sagacious IP |

8. Schedule of the event (insert in the report)

| Time | Particular |
|-----------------|--|
| 11:00- 11:05am | Opening Remarks by Prof. Roheet Bhatnagar, Director, Research |
| 11:05 – 11:25am | Inaugural session |
| | Introductory Remark By Dr. Manish Rawat, Deputy Director, Research |
| | Context Setting by Mr. Vivek Singh IP Attorney & Head - IP Prosecution Practice, Sagacious IP |
| 11:25- 12:35pm | Session on 'Understanding the basic concepts of Patent Drafting & Prosecution' Dr. Shweta Sharma, Project Manager – Patent Drafting, Filing and Prosecution– Sagacious IP |
| 12:35- 12:50pm | Question /Answer |
| 12:50- 01:00pm | Vote of Thanks Ms. Yatika Rawat Manager-Business Development (IP Protection & Commercialization), Sagacious IP |

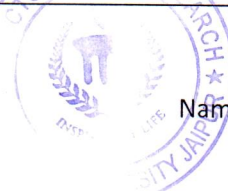




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M. R. K.

Seal and Signature of Head with date

3/3/2022





**MANIPAL UNIVERSITY
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MUJ/Q&C/22/F/1.01

Event Report Format



**MANIPAL UNIVERSITY
JAIPUR**

FACULTY OF ARTS

School of Humanities and Social Sciences

DEPARTMENT OF ECONOMICS

Field Visit

02/09/2022

1. Introduction of the Event

A field visit at Kalaneri Art Gallery and Jawahar Kala Kendra was organized for the students of the Department of Economics. This event was organized for the students to understand the **economics of waste management**. This visit proved to be an eye opener for the students by knowing the art of waste management and its importance and benefits for the waste management.

2. Objective of the Event

The objective of the event was to understand the economics of waste management.

To learn the art of waste management.

To understand the importance of waste management in environment protection.

3. Beneficiaries of the Event

Students , Faculty, Community are the beneficiaries of the event.

4. Details of the Guests

1. Picture 1- Soumya Sharma, MD , Kalaneri Arts Galley

2. Picture 2- Dr Aparna Makkar , Co-founder , Samvaad



5. Brief Description of the event

On 02/09/2022 the Department of Economics organized a field visit for the students of the department at the Kalaneri Art Gallery and Jawahar Kala Kendra. The purpose of the field visit was to make the student understand the economics of the waste management at both the venues. So, the visit started with the Kalaneri Art Gallery where Dr Somya Sharma briefed all the students and faculty members about importance of the waste management for different aspects of the society and during the discussion, she also gave the tour of the gallery to all the students. At the end of the discussion, she also demonstrated some best out of waste projects of her gallery. After the visit of Kalaneri art gallery, students visited the Jawahar Kala Kendra, where the students attended the exhibition on waste management by

Dr Aparna Makkar. During the exhibition Dr Aparna Sharma tried to explain the art of converting waste into some product and the importance of the from the society and the economics point of view.

Photographs





6. Brochure or creative of the event (insert in the document only)



MANIPAL UNIVERSITY
JAIPUR



Department of Economics
School of Social Sciences and Humanities
in Collaboration with
E-Cell MUJ and AIC MUJ

Organizing
A Field Visit

To the *Kalaneri Academy of Fine Arts and Jawahar Kala Kendra*
to

Understand the Economics of Waste Management
2nd September 2022

Prof. (Dr.) Richa Arora
Director
School of Humanities and Social Sciences
Faculty of Arts

Dr. Monika Mathur
Associate Professor & Head
Department of Economics

Dr. Naseeb Singh
Assistant Professor
Department of Economics
Ph. No- 9817917039

7. Schedule of the event

Time of the Event : 01:00 PM to 06:00PM



MANIPAL UNIVERSITY JAIPUR

8. Attendance of the Event (insert in the document only)

Total attendee-.....

Student

Field Trip

02.09.2022

| Sr. No. | Name | Reg No. | Hosteller/day Scholar | Phone No. | Signature |
|---------|-----------|----------------------|-----------------------|-------------|--------------------|
| 1 | 201101006 | NIRANJAN ANAND | Hosteller | 7021776896 | <i>[Signature]</i> |
| 2 | 201101008 | DISHA GOYAL | Day Scholar | 7587566144 | <i>[Signature]</i> |
| 3 | 201101009 | SARA SHARMA | Day Scholar | 6378585519 | <i>[Signature]</i> |
| 4 | 201101011 | SNEHA | Day Scholar | 8269942079 | <i>[Signature]</i> |
| 5 | 201101012 | NEHAL TAKEWAL | Day Scholar | 8209494144 | <i>[Signature]</i> |
| 6 | 201101013 | RITESH KUMAR | Day Scholar | 9304800024 | <i>[Signature]</i> |
| 8 | 201101015 | NIMISH SHARMA | Day Scholar | 8290855976 | <i>[Signature]</i> |
| 9 | 201101016 | HARSH JAIN | Day Scholar | 9993473919 | <i>[Signature]</i> |
| 10 | 201101017 | SHALINI RAI | Day Scholar | 6299645996 | <i>[Signature]</i> |
| 11 | 201101018 | ARUSHI JAIN | Day Scholar | 6378814449 | <i>[Signature]</i> |
| 12 | 201101021 | KAJAL | Day Scholar | 96617 55664 | <i>[Signature]</i> |
| 13 | 201101025 | ARYAN PRATAP CHAUHAN | Day Scholar | 7296957423 | <i>[Signature]</i> |
| 14 | 201101027 | ABHISHEK JEPH | Day Scholar | 8209144471 | <i>[Signature]</i> |
| 15 | 201101030 | YASH WADHAWAN | Day Scholar | 8949069280 | <i>[Signature]</i> |
| 16 | 201101035 | GARGI PAREEK | Day Scholar | 9588201192 | <i>[Signature]</i> |
| 17 | 2011010 | RUCHIKA THAKUR | Hosteller | 9644966463 | <i>[Signature]</i> |
| 18 | 201101034 | SAGAR | Hosteller | 8126898669 | <i>[Signature]</i> |

3rd Sem

Field Trip

02.09.2022

signature

| Name | Registration No. | Outlook Email ID | hosteller/ dayscholar | phone no. |
|-----------------------|------------------|-------------------------------------|--------------------------|------------|
| Mohit Saharan | 211101016 | Mohit.211101016@mun.manipal.edu | day scholar | 8799796434 |
| Insha Imran Jafri | 211101030 | insha.211101030@mun.manipal.edu | hosteller | 6306613506 |
| Gaurav Baasniwal | 211101043 | gaurav.211101043@mun.manipal.edu | day scholar | 9828566996 |
| DIVYA SURANA | 211101028 | divya.211101028@mun.manipal.edu | day scholar | 7232051131 |
| Mansi Sharma | 211101048 | mansi.211101048@mun.manipal.edu | hosteller | 8085749526 |
| gaurav kumar | 211101050 | gaurav211101050@mun.manipal.edu | day scholar | 9587819338 |
| Rohit kumar choudhary | 211101047 | Rohit.211101047@mun.manipal.edu | day scholar | 8302078294 |
| Atharv Aphale | 211101025 | atharv.211101025@mun.manipal.edu | day scholar | 9407202529 |
| Akshay Verma | 211101046 | akshay.211101046@mun.manipal.edu | day scholar | 9783762030 |
| Riti Poddar | 211101044 | riti.211101044@mun.manipal.edu | day scholar | 6026320363 |
| Harsh meena | 211101020 | harsh.211102020@mun.manipal.edu | hosteller | 8000913406 |
| Vaishnavi Joshi | 211101036 | Vaishnavi.211101036@mun.manipal.edu | day scholar | 7987891947 |
| Harshit Sharma | 211101012 | harshit.211101012@mun.manipal.edu | day scholar | 9875708187 |
| Saarthak Tiwari | 211101013 | saarthak.211101013@mun.manipal.edu | day scholar | 6350298883 |
| Aryan soni | 211101031 | Aryan.211101031@mun.manipal.edu | day scholar | 8955249578 |
| Yashi Agrawal | 211101041 | yashi.211101041@mun.manipal.edu | day scholar | 6296959113 |
| Lavish Singh Parmar | 211101038 | lavish.211101038@mun.manipal.edu | hosteller | 9928896816 |
| Anushka Upadhyay | 211101039 | anushka.211101039@mun.manipal.edu | day scholar | 9414255384 |
| Paritosh Bhushan | 21101021 | paritosh.21101021@mun.manipal.edu | day scholar | 9334525022 |

all Gaurav

Rohit Poddar

A.V. Riti Poddar

Harshit

Yashi

Anushka

Paritosh



9. News Publication- News printed in newspaper or online links (if any) for news – insert images)

NA

10. Feedback report of the Event

As per students feedback, they learned so many things about the art of waste management and it will help them to protect the environment.

11. Link of MUJ website stating the event is uploaded on website

<https://jaipur.manipal.edu/content/dam/manipal/muj/foa/Document/event-economics/Field%20Visit.docx>


Dr. Monika Mathur
Head, Department of Economics
Manipal University Jaipur

Seal and Signature of Head with date



**MANIPAL UNIVERSITY
JAIPUR**

MUJ/SIT/ Event/October 31st, 2022



**MANIPAL UNIVERSITY
JAIPUR**

FACULTY OF ENGINEERING

SCHOOL OF INFORMATION TECHNOLOGY

&

**SCHOOL OF ELECTRICAL, ELECTRONICS, AND COMMUNICATION
ENGINEERING**

IGNITE

Workshop on

“IDEA: Innovative Data Exploration and Analysis”

ONLINE EVENT

Venue: Manipal University Jaipur

Date of Event: 31st October 2022

(10:00 AM- 5:00 PM)



Index

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1. Introduction of the Event

The **School of Information Technology (SIT)** and **School of Electrical, Electronics, and Communication Engineering (SEEC)** organized an **IGNITE** workshop on “**IDEA: Innovative Data Exploration and Analysis**” in collaboration with Altair **Engineering India**, **E-CELL**, **AIC-MUJ**, **LearnIT**, and **IEEE MTT-S**, at Manipal University Jaipur. This Event is organized for undergraduate and postgraduate students of Manipal University Jaipur. Students will learn the actual working of Altair tools. Based on learning, they will propose solutions to problems as business or start-up ideas by utilization of these tools.

2. Objective of the Event

- The objective of the event is to create an environment for Data Exploration and Analysis using Altair and other tools.
- To teach students how to use the Altair tools for Data Analytics.
- To develop the creative thinking of students in solving business problems.
- To inculcate a sense of self-reliance and knowledge of real-world issues.

3. Beneficiaries of the Event

- All students of Manipal University Jaipur

4. Details of the Guests

- a. Chief Guest Inauguration: Dr. Arun Shanbhag, Dean FoE, Manipal University Jaipur
- b. Resource Person: Mr. Ashraff Sankanal, Senior Data Scientist, Altair Engineering India

5. Brief Description of the event

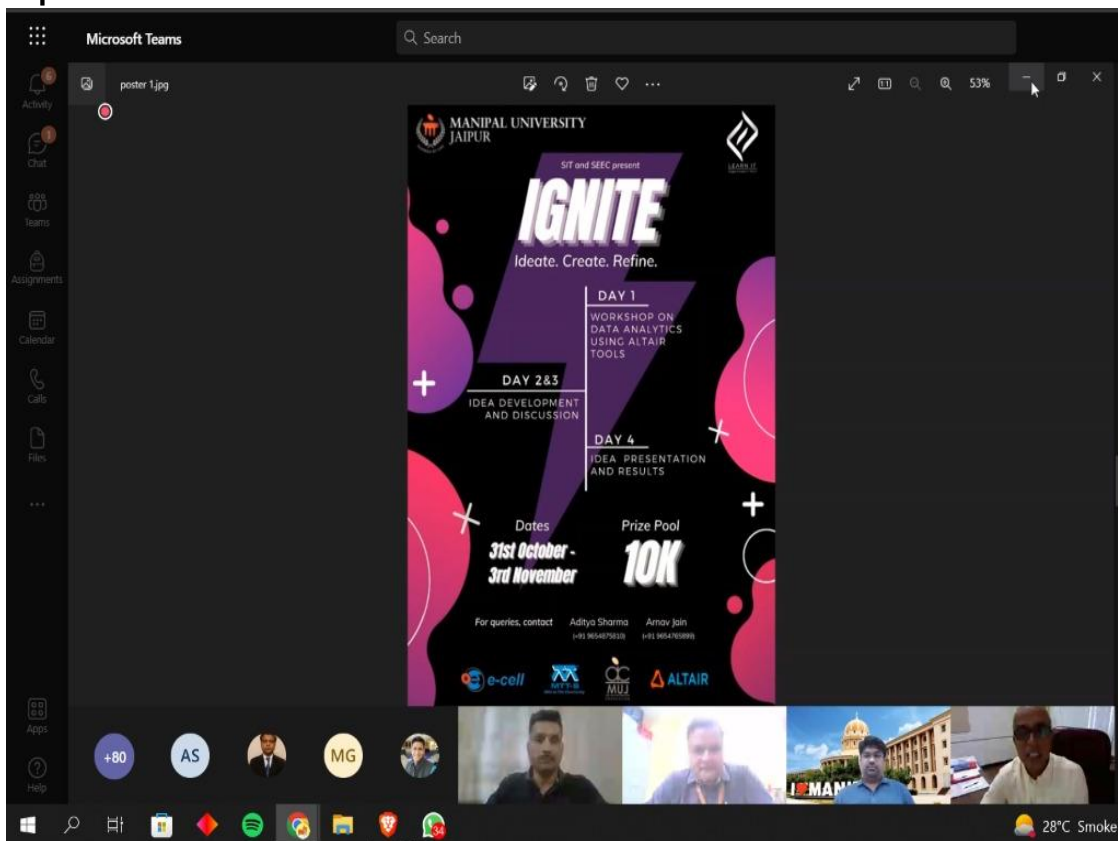
The School of Information Technology (SIT) and School of Electrical, Electronics and Communication Engineering (SEEC) is organized an online workshop on “**IDEA: Innovative Data Exploration and Analysis**” at Manipal University Jaipur. Students learned how to use the Altair tools for working on Data Analytics, as well as delve into case studies on business ideas and startups. This will be conducted in two sessions of 2-hour online workshops.

- **Resource Person: Mr. Ashraff Sankanal, Senior Data Scientist, Altair Engineering India**
- Session 1: (11:00 AM-11:00 PM): Basic of Altair tools and Working
 - Tools are very simple, so it's a highly GUI-based platform. So which will help for all the like engineers. So, it should not be like you should only know the concepts of data science

and an ML person with minimal coding language can also build a data pipeline with the help of an altered data analytics platform so that it is basically what we call these tools as like citizen data scientists so that it can be used for all the engineers.

- Session 2: (02:30 PM-04:30 PM): Discussion on Case studies
 - Executing any project or any use cases which you have defined. So, you need to have more domain knowledge rather than coding knowledge because once you have obtained the results from your machine learning model so you need to analyze them like whether the predictions that you have built or whether the classification you have made is defining to my respective business use case or not. So, this kind of insight you can like you can get it from an.

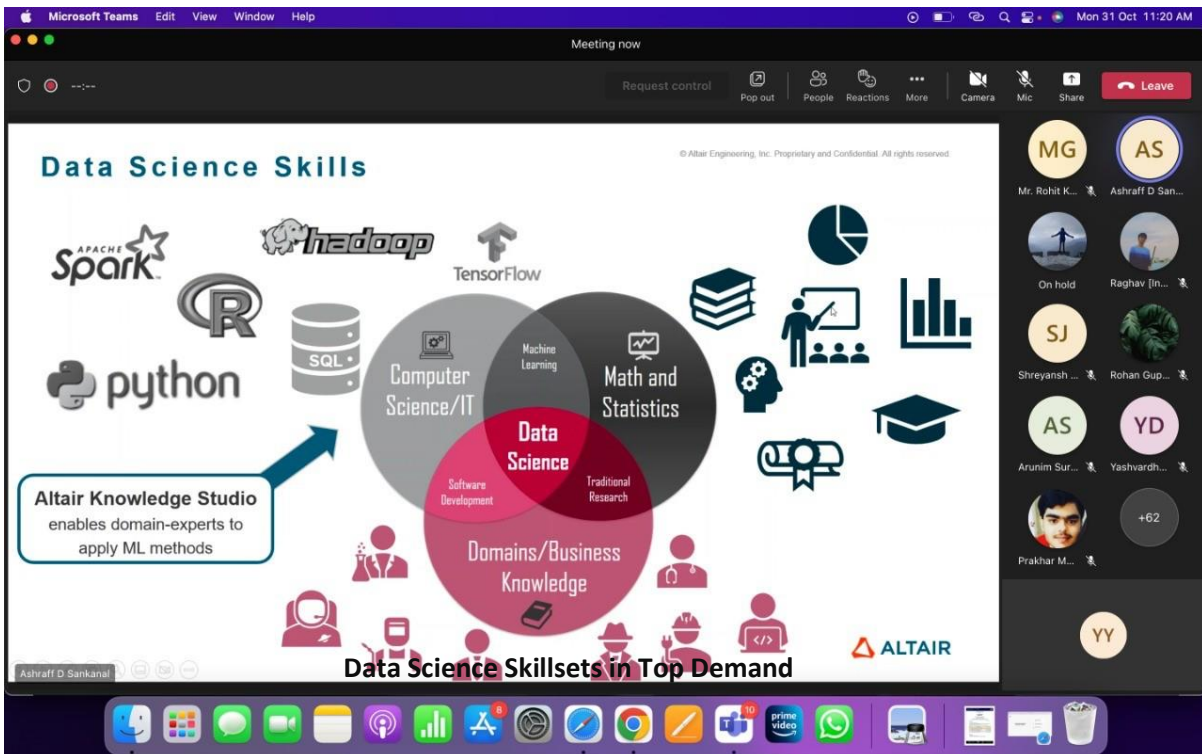
6. 3 to 5 photographs of the event or screenshots of the event (if online) with captions

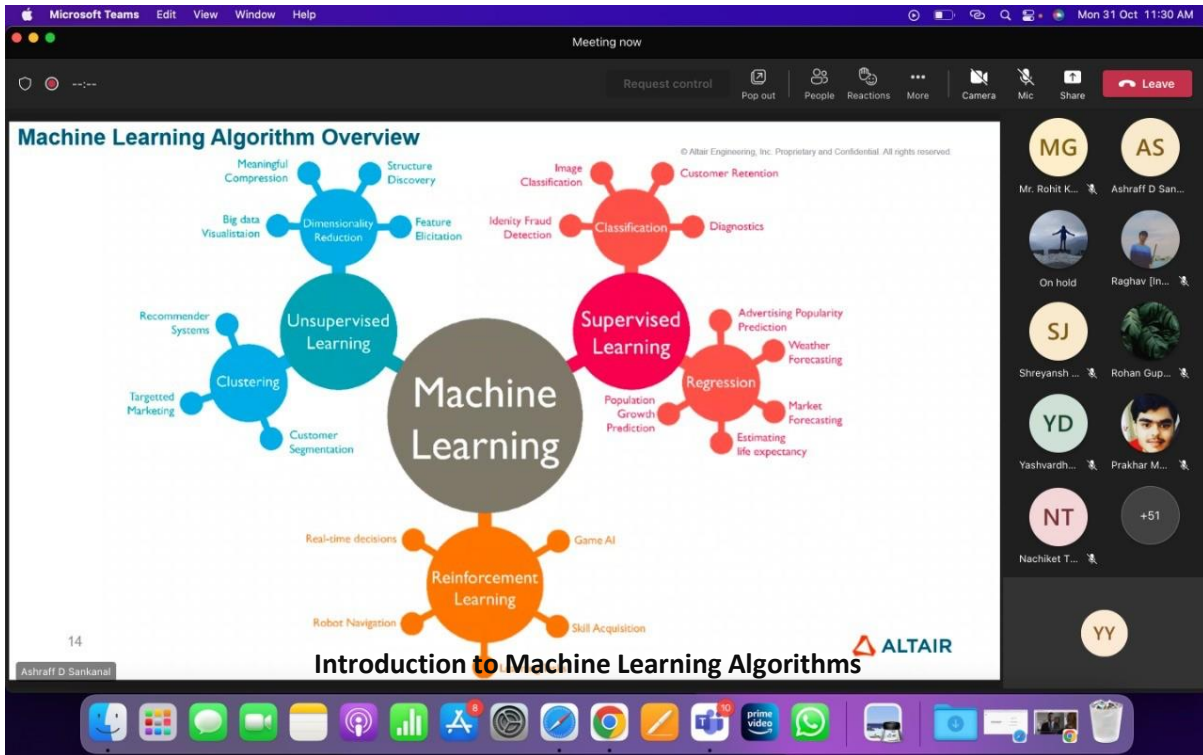


Inauguration with Chief guest



Introduction of Speaker





Machine Learning Algorithm Overview

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Machine Learning

- Unsupervised Learning**
 - Meaningful Compression
 - Structure Discovery
 - Big data Visualisation
 - Dimensionality Reduction
 - Feature Elicitation
 - Clustering
 - Targetted Marketing
 - Recommender Systems
 - Customer Segmentation
- Supervised Learning**
 - Image Classification
 - Customer Retention
 - Identity Fraud Detection
 - Classification
 - Diagnostics
 - Regression
 - Advertising Popularity Prediction
 - Weather Forecasting
 - Market Forecasting
 - Population Growth Prediction
 - Estimating life expectancy
- Reinforcement Learning**
 - Real-time decisions
 - Game AI
 - Robot Navigation
 - Skill Acquisition

Introduction to Machine Learning Algorithms

ALTAIR

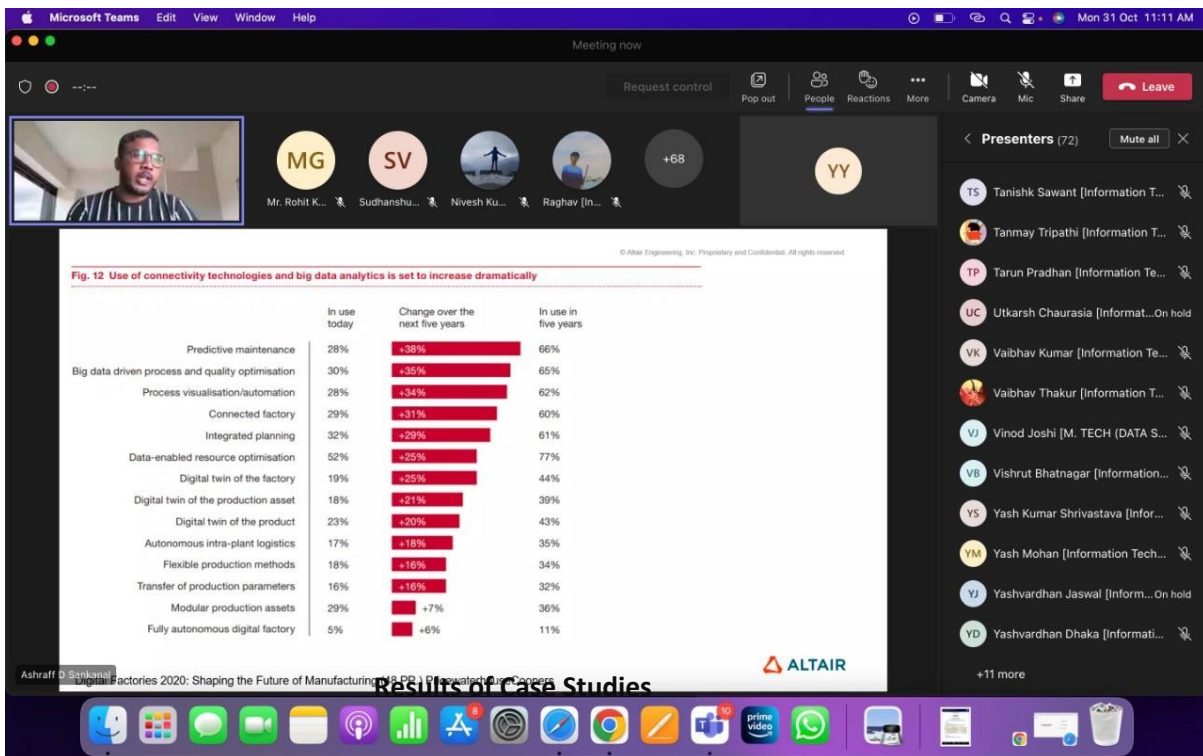


Fig. 12 Use of connectivity technologies and big data analytics is set to increase dramatically

| | In use today | Change over the next five years | In use in five years |
|--|--------------|---------------------------------|----------------------|
| Predictive maintenance | 28% | +38% | 66% |
| Big data driven process and quality optimisation | 30% | +35% | 65% |
| Process visualisation/automation | 28% | +34% | 62% |
| Connected factory | 29% | +31% | 60% |
| Integrated planning | 32% | +29% | 61% |
| Data-enabled resource optimisation | 52% | +25% | 77% |
| Digital twin of the factory | 19% | +25% | 44% |
| Digital twin of the production asset | 18% | +21% | 39% |
| Digital twin of the product | 23% | +20% | 43% |
| Autonomous intra-plant logistics | 17% | +18% | 35% |
| Flexible production methods | 18% | +16% | 34% |
| Transfer of production parameters | 16% | +16% | 32% |
| Modular production assets | 29% | +7% | 36% |
| Fully autonomous digital factory | 5% | +6% | 11% |

Results of Case Studies

ALTAIR



7. Brochure or creative of the event (insert in the document only)

 MANIPAL UNIVERSITY
JAIPUR

 LEARN IT
Department IT MUJ

IGNITE

Ideate. Create. Refine.

**WORKSHOP ON
IDEA:
INNOVATIVE DATA EXPLORATION
AND ANALYSIS**



By Industry Expert
Altair Engineering India
Mr. Ashraff Sankanal
Senior Data Scientist

Dr. Sumit Srivastava
Professor and Director
School of IT
Manipal University Jaipur

Dr. Amit Soni
Professor and Director
School of EEC
Manipal University Jaipur

Faculty Convener
Mr. Ankit Mundra
Mr. Rohit Gupta
Dr. Dinesh Yadav
9667604115 || 7073084879

Dates:
31st Oct. 2022

Organized by: School Of IT and School of EEC

 e-cell  MTT-S
MHR to This Community  MUJ
FOR THE QUALITY
FOUNDATION  ALTAIR



8. Schedule of the event (insert in the report)

- **Inauguration: (Online) (10:30-11:00 AM)**

Meeting: <https://teams.microsoft.com/l/meetup-join/19%3ajvoW6nXRDIWYeSxxuKvLo75QfZ3YjFsqRqtKIXYQSqk1%40thread.tacv2/1667122751642?context=%7b%22Tid%22%3a%2227282fdd-4c0b-4dfb-ba91-228cd83fdf71%22%2c%22Oid%22%3a%2207e076c6-b342-41e7-b890-a38b5bbdfe14%22%7d>

- **Workshop: “IDEA: Innovative Data Exploration and Analysis”** on Altair Data Analytics Tools.
 - Session 1: (11:00 AM-11:00 PM): Basic of Altair tools and Working
 - Session 1: (01:30 PM-03:30 PM): Discussion on Case studies

9. Attendance of the Event (insert in the document only)

Total attendee-.....

| | |
|-------------------------------------|--------------------------------------|
| Total Number of Participants | 169 |
| MeetingTitle | General |
| Meeting Start Time | 10/31/2022,10:01:28 AM |
| Meeting End Time | 10/31/2022,1:06:06 PM |
| MeetingId | 0535067b-007f-477b-b57a-283241c18a31 |

Attendance:



MANIPAL UNIVERSITY JAIPUR

| S.N | Name of Institution | Place of Inst. | Reg. No./Emp code | Name of Attendee | Name of Dept |
|-----|--------------------------|----------------|-------------------|--|--------------|
| 1 | Manipal Univrsity Jaipur | Jaipur | | Dr. Lokesh Sharma [MU - Jaipur] | IT |
| 2 | Manipal Univrsity Jaipur | Jaipur | | Dr. Amit Rathi [MU - Jaipur] | SEEC |
| 3 | Manipal Univrsity Jaipur | Jaipur | | Dr. Amit Soni [MU - Jaipur] | SEEC |
| 4 | Altair India | Bangalore | | Ashraff D Sankanal | |
| 5 | Manipal Univrsity Jaipur | Jaipur | muj0149 | Dr. Dinesh Yadav [MUJ] | SEEC |
| 6 | Manipal Univrsity Jaipur | Jaipur | muj0400 | Mr. Rohit Kumar Gupta [MUJ] | IT |
| 7 | Manipal Univrsity Jaipur | Jaipur | muj0627 | Mr. Ankit Mundra [MUJ] | IT |
| 8 | Manipal Univrsity Jaipur | Jaipur | muj0706 | Dr. Pratistha Mathur [MUJ] | IT |
| 9 | Manipal Univrsity Jaipur | Jaipur | muj0861 | Dr. Sulabh Bansal [MUJ] | IT |
| 10 | Manipal Univrsity Jaipur | Jaipur | muj1068 | Dr. Nirmal Kumar Gupta [MUJ] | IT |
| 11 | Manipal Univrsity Jaipur | Jaipur | | Dr. Pankaj Vyas [MU - Jaipur] | IT |
| 12 | Manipal Univrsity Jaipur | Jaipur | | Puneet Datta [MU - Jaipur] | AIC |
| 13 | Manipal Univrsity Jaipur | Jaipur | | Dr. Ravi Kumar Sharma [MU - Jaipur] | Ecell |
| 14 | Manipal Univrsity Jaipur | Jaipur | | Ravindra Yadav [MU - Jaipur] | AIC |
| 15 | Manipal Univrsity Jaipur | Jaipur | | Dr Arun Shanbhag (Guest) | FoE |
| 16 | Manipal Univrsity Jaipur | Jaipur | | Dr. Kulwant Singh (Guest) | E-Cell |
| 17 | Manipal Univrsity Jaipur | Jaipur | | Dr. Sumit Srivastava [MU - Jaipur] | Faculty |
| 18 | Manipal Univrsity Jaipur | Jaipur | 19930211 2 | Siddhesh Sandeep Kataria [IT - 2019] | IT |
| 19 | Manipal Univrsity Jaipur | Jaipur | 19930211 5 | Shivam Gupta [IT - 2019] | IT |
| 20 | Manipal Univrsity Jaipur | Jaipur | 20101502 7 | Arnav Gandotra [BCA - 2020] | BCA |
| 21 | Manipal Univrsity Jaipur | Jaipur | 20920212 2 | Anushka Singh [CCE - 2020] | CCE |
| 22 | Manipal Univrsity Jaipur | Jaipur | 20920215 4 | Devyani Katre [CCE - 2020] | CCE |
| 23 | Manipal Univrsity Jaipur | Jaipur | 20930127 3 | Sonam [CSE - 2020] | CSE |
| 24 | Manipal Univrsity Jaipur | Jaipur | 20930144 3 | Sumeet Das[CSE - 2020] | CSE |
| 25 | Manipal Univrsity Jaipur | Jaipur | 20930145 7 | Ayush Kumar[CSE - 2020] | CSE |
| 26 | Manipal Univrsity Jaipur | Jaipur | 20930150 9 | Aditya Sharma[CSE - 2020] | CSE |
| 27 | Manipal Univrsity Jaipur | Jaipur | 20930162 7 | Manas Sharma [CSE - 2020] | CSE |
| 28 | Manipal Univrsity Jaipur | Jaipur | 20930200 5 | Shivam J Chourasia [Information Technology - 2020] | IT |
| 29 | Manipal Univrsity Jaipur | Jaipur | 20930201 6 | Aman Mukherjee [Information Technology - 2020] | IT |
| 30 | Manipal Univrsity Jaipur | Jaipur | 20930202 6 | Akshat Garg [Information Technology - 2020] | IT |
| 31 | Manipal Univrsity Jaipur | Jaipur | 20930204 3 | Rishabh Rajesh Jha [Information Technology - 2020] | IT |
| 32 | Manipal Univrsity Jaipur | Jaipur | 20930207 7 | Shivansh Ojha [Information Technology - 2020] | IT |
| 33 | Manipal Univrsity Jaipur | Jaipur | 20930208 1 | Yashvardhan Jaswal [Information Technology - 2020] | IT |
| 34 | Manipal Univrsity Jaipur | Jaipur | 20930208 7 | Kushagra Chauhan [Information Technology - 2020] | IT |



MANIPAL UNIVERSITY JAIPUR

| | | | | | |
|----|--------------------------|--------|-----------|---|-----|
| 35 | Manipal Univrsity Jaipur | Jaipur | 209302088 | Prajwal Singh Shekhawat [Information Technology - 2020] | IT |
| 36 | Manipal Univrsity Jaipur | Jaipur | 209302090 | Manishi Bhatnagar [Information Technology - 2020] | IT |
| 37 | Manipal Univrsity Jaipur | Jaipur | 209302107 | Saubhagya Chopra [Information Technology - 2020] | IT |
| 38 | Manipal Univrsity Jaipur | Jaipur | 209302123 | Shashwat Mehrotra [Information Technology - 2020] | IT |
| 39 | Manipal Univrsity Jaipur | Jaipur | 209302149 | Milind Bhatnagar [Information Technology - 2020] | IT |
| 40 | Manipal Univrsity Jaipur | Jaipur | 209302203 | Sandeep Kumar[Information Technology - 2020] | IT |
| 41 | Manipal Univrsity Jaipur | Jaipur | 209302225 | Chirag Dagar[Information Technology - 2020] | IT |
| 42 | Manipal Univrsity Jaipur | Jaipur | 209302231 | Jaimin Jagdish Judal[Information Technology - 2020] | IT |
| 43 | Manipal Univrsity Jaipur | Jaipur | 209302253 | Souhardya Sutradhar [Information Technology - 2020] | IT |
| 44 | Manipal Univrsity Jaipur | Jaipur | 209302284 | Prakhar Martand[Information Technology - 2020] | IT |
| 45 | Manipal Univrsity Jaipur | Jaipur | 209302285 | Anshika Jaiswal [Information Technology - 2020] | IT |
| 46 | Manipal Univrsity Jaipur | Jaipur | 209302290 | Anentjay Siingh [Information Technology - 2020] | IT |
| 47 | Manipal Univrsity Jaipur | Jaipur | 209302301 | Yash Kumar Shrivastava [Information Technology - 2020] | IT |
| 48 | Manipal Univrsity Jaipur | Jaipur | 209302320 | Kashish Verma [Information Technology - 2020] | IT |
| 49 | Manipal Univrsity Jaipur | Jaipur | 209302323 | Priyam Agarwal [IT - 2020] | IT |
| 50 | Manipal Univrsity Jaipur | Jaipur | 209302327 | Ruhi Kumari . [IT - 2020] | IT |
| 51 | Manipal Univrsity Jaipur | Jaipur | 209302341 | Navdeep Singh [IT - 2020] | IT |
| 52 | Manipal Univrsity Jaipur | Jaipur | 209302345 | Arihant Sogani [IT - 2020] | IT |
| 53 | Manipal Univrsity Jaipur | Jaipur | 209302363 | Dev Jitendra Shah [IT - 2020] | IT |
| 54 | Manipal Univrsity Jaipur | Jaipur | 209302382 | Kartikey Chandel [Information Technology - 2020] | IT |
| 55 | Manipal Univrsity Jaipur | Jaipur | 209302413 | Yashika Yadav [Information Technology - 2020] | IT |
| 56 | Manipal Univrsity Jaipur | Jaipur | 209303087 | Akash Sambhaji Shedage[CCE - 2020] | CCE |
| 57 | Manipal Univrsity Jaipur | Jaipur | 209303121 | Dhruv Ojha [Data Science And Engineering - 2020] | IT |
| 58 | Manipal Univrsity Jaipur | Jaipur | 209303218 | Sanyam Jain [IT - 2020] | IT |
| 59 | Manipal Univrsity Jaipur | Jaipur | 209303249 | Sudhanshu Vashisth [Data Science And Engineering - 2020] | IT |
| 60 | Manipal Univrsity Jaipur | Jaipur | 209303337 | Saagar Bafna [CCE - 2020] | CCE |
| 61 | Manipal Univrsity Jaipur | Jaipur | 209309022 | Manushi Shashank [B.Tech - Data Science and Engineering - 2020] | IT |
| 62 | Manipal Univrsity Jaipur | Jaipur | 209309034 | Ayush Singh [B.Tech - Data Science and Engineering - 2020] | IT |
| 63 | Manipal Univrsity Jaipur | Jaipur | 209309037 | Saanchi Bhardwaj [B.Tech - Data Science and Engineering - 2020] | IT |
| 64 | Manipal Univrsity Jaipur | Jaipur | 209309039 | Anjali Rao [B.Tech - Data Science and Engineering - 2020] | IT |
| 65 | Manipal Univrsity Jaipur | Jaipur | 209309066 | Aryan[B.Tech - Data Science and Engineering - 2020] | IT |
| 66 | Manipal Univrsity Jaipur | Jaipur | 209309104 | Shreyansh Jain[B.Tech - Data Science and Engineering - 2020] | IT |
| 67 | Manipal Univrsity Jaipur | Jaipur | 209309111 | Dhruv Khanna [B TECH IN DATA SCIENCE AND ENGINEERING - 2020] | IT |
| 68 | Manipal Univrsity Jaipur | Jaipur | 209309112 | Abhinav Sharma [B TECH IN DATA SCIENCE AND ENGINEERING - 2020] | IT |



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| | | | | | |
|-----|--------------------------|--------|---------------|---|------------|
| 69 | Manipal Univrsity Jaipur | Jaipur | 20930912 1 | Arnav Jain [IT - 2020] | IT |
| 70 | Manipal Univrsity Jaipur | Jaipur | 20930912 6 | Piyush Joshi [Data Science And Engineering - 2020] | IT |
| 71 | Manipal Univrsity Jaipur | Jaipur | 20930912 9 | Ayush Jain [DATA SCIENCE - 2020] | IT |
| 72 | Manipal Univrsity Jaipur | Jaipur | 20940200 2 | Himanish Bhattacharya [Mechatronics- 2020] | Mechanical |
| 73 | Manipal Univrsity Jaipur | Jaipur | 20940306 6 | Nivesh Kumar Agarwal [MECHATRONICS - 2020] | Mechanical |
| 74 | Manipal Univrsity Jaipur | Jaipur | 21120106 8 | Reet Kler [BJMC - 2021] | BJMC |
| 75 | Manipal Univrsity Jaipur | Jaipur | 21930109 2 | Azam Khan [CSE - 2021] | CSE |
| 76 | Manipal Univrsity Jaipur | Jaipur | 21930134 7 | Priyanshu Sharma [CSE - 2021] | CSE |
| 77 | Manipal Univrsity Jaipur | Jaipur | 21930144 6 | Tejaswa Baghel [CSE - 2021] | CSE |
| 78 | Manipal Univrsity Jaipur | Jaipur | 21930200 4 | Shubham Khatri [Information Technology - 2021] | IT |
| 79 | Manipal Univrsity Jaipur | Jaipur | 21930204 4 | Bhargavi Gupta [Information Technology - 2021] | IT |
| 80 | Manipal Univrsity Jaipur | Jaipur | 21930205 8 | Milan Mittal [Information Technology - 2021] | IT |
| 81 | Manipal Univrsity Jaipur | Jaipur | 21930207 1 | Shivani Singh [Information Technology - 2021] | IT |
| 82 | Manipal Univrsity Jaipur | Jaipur | 21930207 8 | Hardik Saraswat [Information Technology - 2021] | IT |
| 83 | Manipal Univrsity Jaipur | Jaipur | 21930210 0 | Aaron Sequeira [Information Technology - 2021] | IT |
| 84 | Manipal Univrsity Jaipur | Jaipur | 21930210 9 | Tanisha Rana [Information Technology - 2021] | IT |
| 85 | Manipal Univrsity Jaipur | Jaipur | 21930216 2 | Khushi Sharma [Information Technology - 2021] | IT |
| 86 | Manipal Univrsity Jaipur | Jaipur | 21930217 3 | Dhruv Arora [Information Technology - 2021] | IT |
| 87 | Manipal Univrsity Jaipur | Jaipur | 21930219 0 | Vaibhav Kumar [Information Technology - 2021] | IT |
| 88 | Manipal Univrsity Jaipur | Jaipur | 21930221 5 | Yash Verma [Information Technology - 2021] | IT |
| 89 | Manipal Univrsity Jaipur | Jaipur | 21930225 7 | Arya Kale [Information Technology - 2021] | IT |
| 90 | Manipal Univrsity Jaipur | Jaipur | 21930239 1 | Utkarsh Chaurasia [Information Technology - 2021] | IT |
| 91 | Manipal Univrsity Jaipur | Jaipur | 21930239 6 | Tarun Pradhan [Information Technology - 2021] | IT |
| 92 | Manipal Univrsity Jaipur | Jaipur | 21930244 2 | Tanishk Sawant [Information Technology - 2021] | IT |
| 93 | Manipal Univrsity Jaipur | Jaipur | 21930246 5 | Krishna Ravishanker [Information Technology - 2021] | IT |
| 94 | Manipal Univrsity Jaipur | Jaipur | 21930247 7 | Priyanshu Chandra [Information Technology - 2021] | IT |
| 95 | Manipal Univrsity Jaipur | Jaipur | 21930247 8 | Mohd Anfan Shahab [Information Technology - 2021] | IT |
| 96 | Manipal Univrsity Jaipur | Jaipur | 21930248 2 | Shashank Shekhar Tiwary [Information Technology - 2021] | IT |
| 97 | Manipal Univrsity Jaipur | Jaipur | 21930248 4 | Jairam Subhash [Information Technology - 2021] | IT |
| 98 | Manipal Univrsity Jaipur | Jaipur | 21930248 7 | Ananya Chandraker [Information Technology - 2021] | IT |
| 99 | Manipal Univrsity Jaipur | Jaipur | 21930248 9 | Prathamesh Nimkar [Information Technology - 2021] | IT |
| 100 | Manipal Univrsity Jaipur | Jaipur | 21930249 1 | Ansh Singh [Information Technology - 2021] | IT |
| 101 | Manipal Univrsity Jaipur | Jaipur | 21930249 6 | Abhiraj Kumar [Information Technology - 2021] | IT |
| 102 | Manipal Univrsity Jaipur | Jaipur | 21930250 0 | Aayansh Singh [Information Technology - 2021] | IT |



MANIPAL UNIVERSITY JAIPUR

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| 103 | Manipal Univrsity Jaipur | Jaipur | 219303037 | Mariyush Gupta [CCE - 2021] | CCE |
| 104 | Manipal Univrsity Jaipur | Jaipur | 219303047 | Abhiram Prakash Mujumdar [CCE - 2021] | CCE |
| 105 | Manipal Univrsity Jaipur | Jaipur | 219303062 | Nachiket Thapliyal [Information Technology - 2021] | IT |
| 106 | Manipal Univrsity Jaipur | Jaipur | 219303072 | Vishrut Bhatnagar [CCE - 2021] | CCE |
| 107 | Manipal Univrsity Jaipur | Jaipur | 219303077 | Sankalp Misra [CCE - 2021] | CCE |
| 108 | Manipal Univrsity Jaipur | Jaipur | 219303080 | Astitva [Information Technology - 2021] | IT |
| 109 | Manipal Univrsity Jaipur | Jaipur | 219303081 | Shaurya Malviya [Information Technology - 2021] | IT |
| 110 | Manipal Univrsity Jaipur | Jaipur | 219303090 | Arunim Sureka [CCE - 2021] | CCE |
| 111 | Manipal Univrsity Jaipur | Jaipur | 219303106 | Vaibhav Thakur [CCE - 2021] | CCE |
| 112 | Manipal Univrsity Jaipur | Jaipur | 219303111 | Ansh Chandra [CCE - 2021] | CCE |
| 113 | Manipal Univrsity Jaipur | Jaipur | 219303120 | Pravartika Mishra [Information Technology - 2021] | IT |
| 114 | Manipal Univrsity Jaipur | Jaipur | 219303121 | Vivaan Johri [CCE - 2021] | CCE |
| 115 | Manipal Univrsity Jaipur | Jaipur | 219303130 | Kapil Raisinghani [Information Technology - 2021] | IT |
| 116 | Manipal Univrsity Jaipur | Jaipur | 219303137 | Kunal Singh Chauhan [Information Technology - 2021] | IT |
| 117 | Manipal Univrsity Jaipur | Jaipur | 219303143 | Kairav [Information Technology - 2021] | IT |
| 118 | Manipal Univrsity Jaipur | Jaipur | 219303155 | Jitesh Niteen Bobade [Information Technology - 2021] | IT |
| 119 | Manipal Univrsity Jaipur | Jaipur | 219303157 | Tanmay Tripathi [CCE - 2021] | CCE |
| 120 | Manipal Univrsity Jaipur | Jaipur | 219303165 | Amrita Prasad [Information Technology - 2021] | IT |
| 121 | Manipal Univrsity Jaipur | Jaipur | 219303166 | Raghav [CCE - 2021] | CCE |
| 122 | Manipal Univrsity Jaipur | Jaipur | 219303168 | Harshvardhan Singh [CCE - 2021] | CCE |
| 123 | Manipal Univrsity Jaipur | Jaipur | 219303216 | Yash Mohan [Information Technology - 2021] | IT |
| 124 | Manipal Univrsity Jaipur | Jaipur | 219309004 | Angad Singh Dhaliwal [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 125 | Manipal Univrsity Jaipur | Jaipur | 219309008 | Kashish Mittal [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 126 | Manipal Univrsity Jaipur | Jaipur | 219309013 | Cheshtha Vasudeva [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 127 | Manipal Univrsity Jaipur | Jaipur | 219309014 | Aaryan Tyagi [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 128 | Manipal Univrsity Jaipur | Jaipur | 219309021 | Ayush Anil Trivedi [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 129 | Manipal Univrsity Jaipur | Jaipur | 219309023 | Suman Khangarot [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 130 | Manipal Univrsity Jaipur | Jaipur | 219309027 | Kartikeya Jain [Data Science - 2021] | IT |
| 131 | Manipal Univrsity Jaipur | Jaipur | 219309032 | Bhavya Rupesh Khot [Data Science - 2021] | IT |
| 132 | Manipal Univrsity Jaipur | Jaipur | 219309035 | Hardik Patel [Information Technology - 2021] | IT |
| 133 | Manipal Univrsity Jaipur | Jaipur | 219309050 | Priyanshu Kachalia [Data Science - 2021] | IT |
| 134 | Manipal Univrsity Jaipur | Jaipur | 219309056 | Aditi Chandorkar [Data Science - 2021] | IT |
| 135 | Manipal Univrsity Jaipur | Jaipur | 219309061 | Aditya Salgaonkar [Data Science - 2021] | IT |
| 136 | Manipal Univrsity Jaipur | Jaipur | 219309067 | Arushi Kashyap [Data Science - 2021] | IT |



MANIPAL UNIVERSITY JAIPUR

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|-----|--------------------------|--------|-----------|---|-----|
| 137 | Manipal Univrsity Jaipur | Jaipur | 219309071 | Ananyah Munjal [Data Science - 2021] | IT |
| 138 | Manipal Univrsity Jaipur | Jaipur | 219309072 | Aakarsh Ahlawat [Data Science - 2021] | IT |
| 139 | Manipal Univrsity Jaipur | Jaipur | 219309075 | Agrima Goel [Data Science - 2021] | IT |
| 140 | Manipal Univrsity Jaipur | Jaipur | 219309076 | Chhavi Mathur [Data Science - 2021] | IT |
| 141 | Manipal Univrsity Jaipur | Jaipur | 219309097 | Lasya Priya [Data Science - 2021] | IT |
| 142 | Manipal Univrsity Jaipur | Jaipur | 219309160 | Parisa Maggon [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 143 | Manipal Univrsity Jaipur | Jaipur | 219309166 | Divyansh Raiswal [DATA SCIENCE AND ENGINEERING - 2021] | IT |
| 144 | Manipal Univrsity Jaipur | Jaipur | 219310152 | Juhi Singh Rathore [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 145 | Manipal Univrsity Jaipur | Jaipur | 219310165 | Abhishek Kumar [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 146 | Manipal Univrsity Jaipur | Jaipur | 219310250 | Vaidik Mandloi [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 147 | Manipal Univrsity Jaipur | Jaipur | 219310261 | Ananya Bhardwaj [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 148 | Manipal Univrsity Jaipur | Jaipur | 219310288 | Shivangi Srivastava [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 149 | Manipal Univrsity Jaipur | Jaipur | 219310294 | Manu Gupta [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 150 | Manipal Univrsity Jaipur | Jaipur | 219310299 | Aishwarya Basliyal [CSE - 2021] | CSE |
| 151 | Manipal Univrsity Jaipur | Jaipur | 219310302 | Aditi Jaiswal [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 152 | Manipal Univrsity Jaipur | Jaipur | 219310323 | Ansh Srivastava [Artificial Intelligence & Machine Learning - 2021] | CSE |
| 153 | Manipal Univrsity Jaipur | Jaipur | 219311037 | Aryav Srivastava [IOT AND INTELLIGENT SYSTEM - 2021] | CCE |
| 154 | Manipal Univrsity Jaipur | Jaipur | 219311184 | Yashvardhan Dhaka [IOT And Intelligent System - 2021] | CCE |
| 155 | Manipal Univrsity Jaipur | Jaipur | 229202064 | Yuvraj Singh Sikarwar [ECE - 2022] | ECE |
| 156 | Manipal Univrsity Jaipur | Jaipur | 229302329 | Garvit Singh [IT - 2022] | IT |
| 157 | Manipal Univrsity Jaipur | Jaipur | 229303011 | Varun [CCE - 2022] | IT |
| 158 | Manipal Univrsity Jaipur | Jaipur | 229303301 | Shresth Aggarwal [CCE - 2022] | IT |
| 159 | Manipal Univrsity Jaipur | Jaipur | 229307002 | Rohan Gupta [M. TECH (DATA SCIENCE) - 2022] | IT |
| 160 | Manipal Univrsity Jaipur | Jaipur | 229307006 | Vinod Joshi [M. TECH (DATA SCIENCE) - 2022] | IT |
| 161 | Manipal Univrsity Jaipur | Jaipur | 229311192 | Kartik Meel [CSE (IOT AND INTELLIGENT SYSTEM) - 2022] | CSE |
| 162 | Manipal Univrsity Jaipur | Jaipur | | Akshat | IT |
| 163 | Manipal Univrsity Jaipur | Jaipur | | Vaibhavi | IT |
| 164 | Manipal Univrsity Jaipur | Jaipur | | shivaani gupta | IT |
| 165 | Manipal Univrsity Jaipur | Jaipur | | Sanjana | IT |
| 166 | Manipal Univrsity Jaipur | Jaipur | | TARu | IT |
| 167 | Manipal Univrsity Jaipur | Jaipur | | indraj bugalia | IT |
| 168 | Manipal Univrsity Jaipur | Jaipur | | Aditya patel | IT |
| 169 | Manipal Univrsity Jaipur | Jaipur | | Shreyash Prajapati | IT |



10. Link of MUJ website stating the event is uploaded on website

<https://apply.jaipur.manipal.edu/muj/news-events/events-list/idea--innovative-data-exploration-and-analysis.html>

Mr. Rohit Kumar Gupta
Faculty Convener
Assistant Professor (SIT)

Mr. Ankit Mundra
Faculty Convener
Faculty Coordinator LearnIT
Assistant Director, Q&C

Dr. Dinesh Yadav,
Faculty Convener
Faculty Advisor IEEE MTTS-ECE
Assistant Director, E-cell

Dr. Sumit Srivastava
Professor, Director SIT

Dr. Amit Soni
Professor, Director SEEC



**MANIPAL UNIVERSITY
JAIPUR**

MUJ/Q&C/22/F/1.01

Event Report Format



**MANIPAL UNIVERSITY
JAIPUR**

FACULTY OF ENGINEERING

SCHOOL OF CIVIL AND CHEMICAL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

**Intellectual Property Rights (IPRs) & IP Management for Startup
(Workshop)**

22nd April, 2022



Content of Report (index)

1. Introduction of the Event
2. Objective of the Event
3. Beneficiaries of the Event
4. Details of the Guests
5. Brief Description of the event
6. Geo-tagged Photographs
7. Brochure or creative of the event
8. Schedule of the Event
9. Attendance of the Event
10. Link of MUJ website



1. Introduction of the Event

Atal Incubation Centre-Manipal University Jaipur has organized a workshop on Intellectual Property Rights and IP Management for start-ups in association with **Department of Civil Engineering** & Department of Commerce on 22nd April 2022.

2. Objective of the Event

- To spread awareness about the IPR and IP Management
- To explain the various field for IPR and IP Management
- To explore the process of filing paper on IPR and IP Management

3. Beneficiaries of the Event

The main beneficiaries of the workshop are MUJ faculties, research scholars and undergraduate and post graduate students

4. Details of the Guests

- a. Peggy Bengtsson**, Director, Portfolio Outstanding, ZACCO – Senior European Patent Attorney, has More than 36 years of experience both as in-house attorney in ABB, Ericsson and Sony Mobile and consultant in patent drafting, prosecution and strategy work in various domains including Telecommunications and Mechanical. She joined ZACCO in 2004. She graduated in 1983 with a Master's of Science degree in mechanical engineering from Lund University's faculty of engineering (LTH). She has also successfully completed her European Qualifying Examination and is a certified European Patent Attorney
- b. Edwin Selvraj**, Team Manager, Patents, ZACCO - Region India, Lead Patent Attorney, S&H Partners, is an expert of drafting, prosecution of patent applications in US, EP and India, focus on consulting and strategy. His notable representation includes Electronics / Telecommunication / Software companies for drafting and prosecuting their patent application in India, US and Europe. In addition, Edwin has been assisting several multinational corporations, prestigious Indian establishments, Indian institutions,



and many start-ups in India for handling their IP portfolio strategic creation and management.

- c. **Debasish Kundu**, Head - Business Development, ZACCO - Region India, has over 15 years of experience in International Sales & Marketing. He has hands-on experience in Software Product Development. He also has an expertise in Strategic Initiatives, International Marketing, Marketing Communication, Brand Management, Market Research, Digital Marketing, Product Management, Event Management, Management Training, CRM and Automation (software product development). Debasish held key positions in both corporate and academic institutions. He was the Head – Marketing & Strategy at ProTeam Software and Campus In-charge cum Chairperson Academics at International School of Business & Media, Bangalore.

5. Brief Description of the event

Atal Incubation Centre-Manipal University Jaipur has organized a workshop on Intellectual Property Rights and IP Management for Startups in association with Department of Civil Engineering & Department of Commerce, E-cell, S & H Partners, ZACCO on 22nd April 2022. Understanding the role of IPR in this competitive world of technology is a must. The main objective behind the workshop is to help entrepreneur understand. The workshop commenced with an address to the participants about the significance of IPR and cybersecurity in the modern world. The history of intellectual property, from its beginnings to its evolving phase was also covered. Participants got the insights on cybersecurity and IP management in the tech world. The resource persons of the workshop were Peggy Bengtsson (Director, Portfolio Outsourcing – ZACCO Senior European Patent Attorney), Debasish Kundu (Head - Business development-ZACCO Region India), Edwin Selvaraj (Lead patent attorney at S&H Partners). The workshop was attended by faculty members and students of Manipal University Jaipur.

6. Photographs



Participants and key speakers during the IPR & IP Management workshop on 22nd April, 2022

7. Brochure or creative of the event



Workshop on
“Intellectual Property Rights (IPRs) & IP Management for Startups”
 In association with
Department of Civil Engineering & Commerce

EDWIN SELVARAJ
 LEAD PATENT ATTORNEY,
 S&H PARTNERS

PEGGY BENGTSOON
 DIRECTOR, PORTFOLIO OUTSOURCING –
 ZACCO SENIOR EUROPEAN PATENT ATTORNEY

DEBASISH KUNDU
 HEAD – BUSINESS DEVELOPMENT,
 ZACCO - REGION INDIA

Date: 22nd April 2022
Time: 11:00AM to 01:00PM

Convener
 Mr Puneet Datta, CEO
 AIC, MUJ

Convener
 Mr Ravindra Yadav,
 Community Manager
 AIC MUJ

Coordinator
 Dr Tej Bahadur
 Associate Professor
 Dept of Civil Engineering

Coordinator
 Dr Sunny Dawar
 Assistant Professor
 Dept of Commerce

8. Schedule of the event

Date: 22nd April, 2022; Time: 11:00AM to 01:00PM

Venue – Room No. 307, 1-AB, Manipal University Jaipur



9. Attendance of the Event - Total attendee- 34

List of Participants

| S.No. | Name of Participants |
|--------------|-----------------------------|
| 1 | Yashwardhan Singh |
| 2 | Tavish P Sharma |
| 3 | Sparsh Khare |
| 4 | Shubham Bhagwat Landge |
| 5 | Shivsagar Tiwari |
| 6 | Sarthak Morwal |
| 7 | Sanket Sandeep Karpe |
| 8 | Sagar Sharma |
| 9 | Adnan Sheikh |
| 10 | Animesh Mishra |
| 11 | Anubhav Singh Rana |
| 12 | Anurag Meeral |
| 13 | Anurag Patidar |
| 14 | Arastu Meel |
| 15 | Ashutosh Kumar |
| 16 | Devyash Jain |
| 17 | Dewang Ratnu |
| 18 | Divya Vashistha |
| 19 | Gourav Kumawat |
| 20 | Hemant Medatwal |
| 21 | Himanshu Mandrai |
| 22 | Khadke Suyash Shailendra |
| 23 | Mayank Sharma |
| 24 | Mayank Singh |
| 25 | Mayank Tomar |
| 26 | Mohak Goel |
| 27 | Peter Singh |
| 28 | Piyush Sharma |
| 29 | Pratyush Gaurav |
| 30 | Priyanshu Ladha |
| 31 | Raguvesh Tiwari |
| 32 | Sagar Chouhan |
| 33 | Sagar Gupta |
| 34 | Sagar Sharma |

10. Link of MUJ website stating the event is uploaded on website

<https://jaipur.manipal.edu/foe/schools-faculty/schools-list/scce/civil-engineering/events--civil.html?123>



10. Link of MUJ website stating the event is uploaded on website

<https://jaipur.manipal.edu/foe/schools-faculty/schools-list/scce/civil-engineering/events--civil.html?123>

Dr. Tej Bahadur [MU - Jaipur]

From: Exchadmin [MU - Jaipur]
Sent: 21 April 2022 11:33
To: MUJ Faculty
Subject: Invite | workshop on "Intellectual property rights and management | AIC-MUJ

Dear All,

Understanding the role of IPR in this competitive world of technology is a must. AIC-MUJ invites you to attend a workshop on "Intellectual property rights and management for start-ups".

We have organized this workshop in association with the Department of Civil Engineering and Commerce, E-cell MUJ, Zacco - 360° Intellectual Property, and S&H PARTNERS to create awareness about intellectual property rights.

Speakers – Peggy Bengtsson (Director, Portfolio Outsourcing - Zacco Senior European Patent Attorney), Debasish Kundu (Head -Business development-Zacco Region India), EDWIN SELVARAJ (Lead patent attorney at S&H Partners)

Date - April 22, 2022.

Time – 11 am to 1 pm

Venue – Room No. 307, 1-AB, Manipal University Jaipur

MJB
25/7/22

Seal and Signature of Head with date





**MANIPAL UNIVERSITY
JAIPUR**

PANEL DISCUSSION ON

**PRESENT AND FUTURE TRENDS OF ELECTRONICS &
ELECTRICAL ENGINEERING**

ORGANIZED BY

**SCHOOL OF ELECTRICAL, ELECTRONICS AND
COMMUNICATION ENGINEERING**

In Collaboration With

E-Cell

&

Directorate of International Collaboration

MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA

WITH

MOUS / COLLABORATIVE PARTNERS

DATE: JULY 04, 2022, TIME: 04:00 PM TO 05:30 PM



**MANIPAL UNIVERSITY
JAIPUR**

Prof. Dr. S. K. Mishra



MANIPAL UNIVERSITY JAIPUR

FLYER

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|---|--|---|--|--|--|
|  MANIPAL UNIVERSITY JAIPUR <small>(University under Section 20B of the UCA, 1956)</small> | | SCHOOL OF ELECTRICAL, ELECTRONICS AND COMMUNICATION ENGINEERING MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA | |  | |
| PRESENT AND FUTURE TRENDS OF ELECTRONICS & ELECTRICAL ENGINEERING (Panel Discussion) VENUE: ONLINE (MICROSOFT TEAMS) DATE: JULY 04, 2022 TIME: 04:00 PM TO 05:30 PM | | | | | |
|  Prof Arun Shrivastava Manipal University Jaipur | |  Prof Jami Akhtar Manipal University Jaipur | |  Prof Amit Soni Manipal University Jaipur | |
| Chief Patron Mr S. Vaitheswaran Manipal University Jaipur | | | | | |
|  Prof Lakshmani Ahmed Universite du Quebec en Outaouais, Canada | |  Prof Fred Lumban Gaol BINUS University, Indonesia | |  Prof Vladimir Pavelyev Samara National Research University, Russia | |
|  Dr Ralf Becher Tractebel Engineering/ ENGIE, Germany | |  Dr Ajay Agarwal Indian Institute of Technology Jodhpur, India | |  Dr Srinivas Ganti Tata Motors, India | |
| Patron Prof Gopalakrishnan Prabhu Manipal University Jaipur | | | | | |
|  Prof Siddharth Panda Indian Institute of Technology Kanpur, India | |  Dr Suchandan Pal CSIR-CEERI Pilani, India | |  Dr Manish Kumar Hooda SCL, Department of Space, Government of India | |
|  Mr Sanjay Sharma Swem Water Tech Pvt Ltd, India | |  Dr Dhireendra Mathur Rajasthan Technical University Kota, India | | Patron Prof Niti Nipoun Sharma Manipal University Jaipur | |
|  Prof Manish Tiwari Department of ECE, MUJ | |  Dr Amit Saraswat Department of EE, MUJ | | Conveners Dr Kulwant Singh, Department of ECE, MUJ Dr Suddhendu Das Mahapatra, Department of ECE, MUJ Mr Divya Rishi Shrivastava, Department of EE, MUJ | |
| Patron Prof Neetu Bhatnagar Manipal University Jaipur | | | | | |

Prof Neetu Bhatnagar



MANIPAL UNIVERSITY JAIPUR

Introduction & Objective:

On the special occasion of the retirement day of Prof. Jamil Akhtar (Director of the School of Electrical, Electronics and Communication Engineering, Manipal University Jaipur), The school has organized an **online panel discussion** on the topic '**Present and Future Trends of Electronics & Electrical Engineering**' on 4th July 2022 in online mode.

Several eminent speakers from renowned institutes and industries from all over the world shared their valuable insight about the optimistic career and research opportunities in the domain of Electronics and Electrical Engineering.

Speakers:

The following professionals from different corners of the world and having a strong collaborative association with Manipal University Jaipur have adorned the event.

Prof Lakhssassi, Ahmed, Université du Québec en Outaouais, Canada

Prof Vladimir Pavelyev, Samara National Research University, Russia

Dr. Ralf Bucher, Tractebel Engineering / ENGIE, Germany

Prof Siddharth Panda, IIT-K, India

Dr. Suchandan Pal, CSIR-CEERI Pilani, India

Dr. Direndra Mathur, Dean, RTU-KOTA, India

Dr. Srinivas Gunti, General Manager, Tata Motors, India

Description:

In the presence of the Pro-President, Prof. N.N. Sharma and the Dean, Faculty of Engineering, Prof. Arun Shanbhag, the event started with a welcome note by the Head of the ECE Department, Prof. Manish Tiwari.

Therefore, Prof. Amit Soni, the Director of International Collaboration, and Dr. Kulwant Singh, the Deputy-Director E-Cell, MUJ chaired an amazing and prolific conversation by the experts.

Prof Lakhssassi, Ahmed, Université du Québec en Outaouais, Canada elaborated on the huge opportunities in the field of development of smart microsystem technology along with cyber security interfacing.

Prof Vladimir Pavelyev, Samara National Research University, Russia added about the gigantic prospects in the domain of photonics and next-generation communication systems.

Dr. Ralf Bucher, Tractebel Engineering / ENGIE, Germany emphasized energy management systems and their future scope.

Prof Siddharth Panda, IIT-K, India highlighted the applications and scope in agriculture, food technology, and health care application.

Dr. Suchandan Pal, CSIR-CEERI Pilani, India stressed the opportunities of ECE and EE in the Indian and global scenario.



MANIPAL UNIVERSITY JAIPUR

Dr. Dhirendra Mathur, Dean, RTU-KOTA, India deliberated upon the requirement of material science & engineering, and nanotechnology for the next-generation systems

Dr. Srinivash Gunti, General Manager, Tata Motors, India highlighted the huge opportunities for smart automation in Electric vehicles and energy systems.

Prof. Jamil Akhtar, Director SEEC, MUJ, delivered the closing remarks of the event and referred to the multidimensional career and research opportunities in the domain of Electrical and Electronics Engineering.

The successful event ended with the remarks of a vote of thanks by Dr. Amit Saraswat, HoD, EE, MUJ.

Dr. Kulwant Singh, Dr. Suddhendu DasMahapatra, and Mr. Divya Rishi Srivastava convened the entire event with great success.

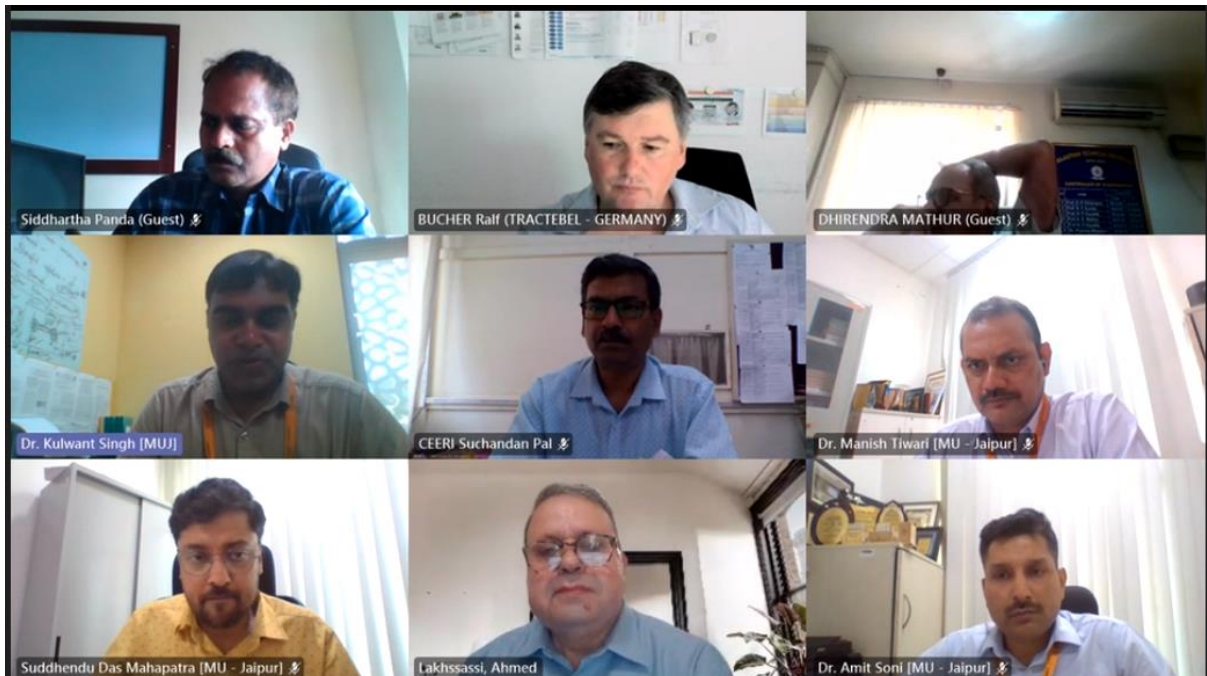


Figure-1: Glimpse of the program

Divya Rishi Srivastava

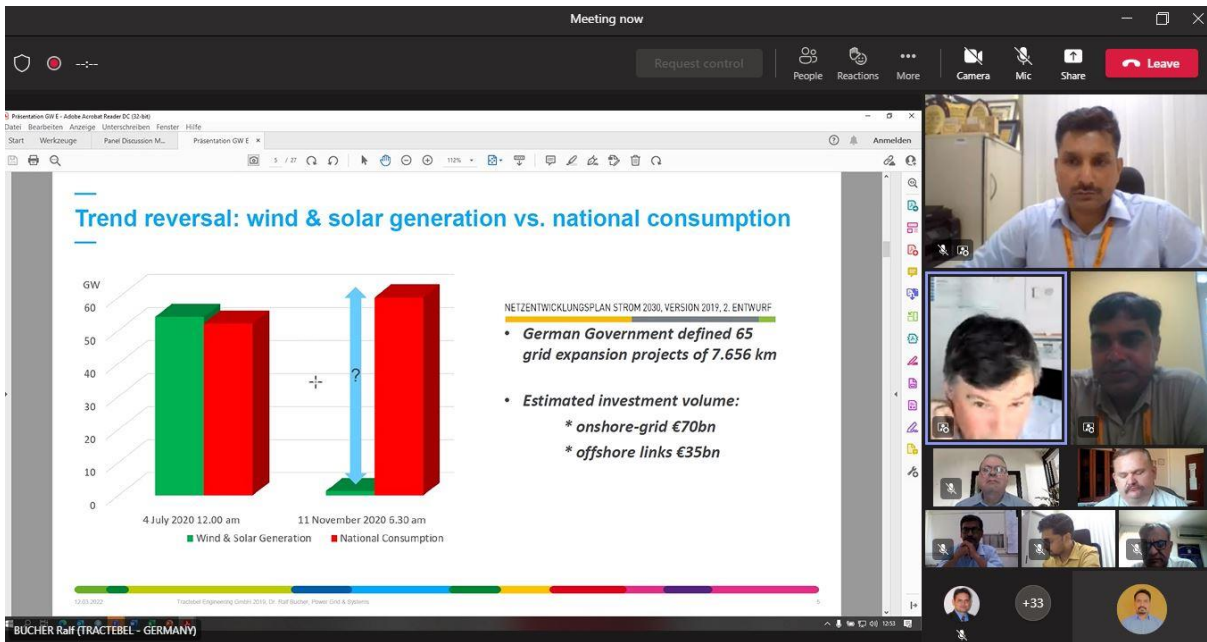


Figure-2: Address by Prof. Ralf

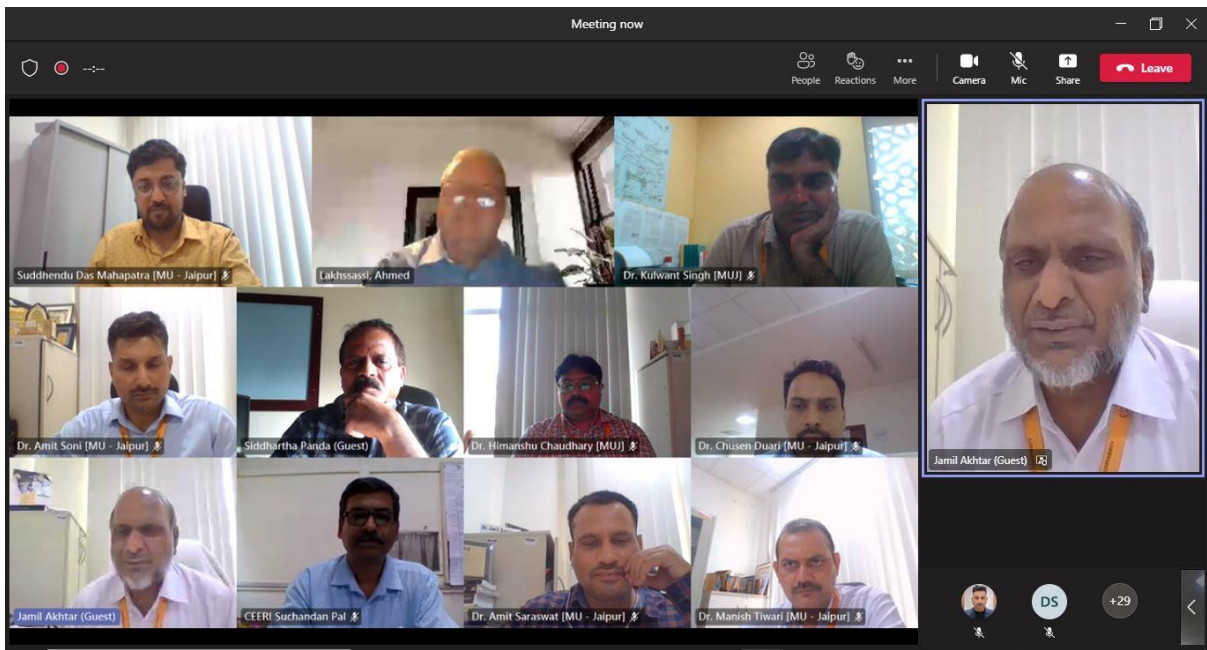


Figure-1: Closing Remarks by Prof. Jamil Akhtar

Link of MS Teams: <https://rb.gy/mdc8bk>

Attendance:

| Sl. No | Name |
|--------|---------------------------------------|
| 1 | Dr. Kulwant Singh [MUJ] |
| 2 | Suddhendu Das Mahapatra [MU - Jaipur] |
| 3 | Dr. Amit Soni [MU - Jaipur] |

J. Akhtar



MANIPAL UNIVERSITY JAIPUR

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|----|---|
| 4 | Divya Rishi Shrivastava [MU - Jaipur] |
| 5 | Dr. Manish Tiwari [MU - Jaipur] |
| 6 | Vladimir Pavelyev (гость) |
| 7 | Dr. Amit Saraswat [MU - Jaipur] |
| 8 | Dr. Niti Nipun Sharma [MU - Jaipur] |
| 9 | Dr. Manish Thukral [MUJ] |
| 10 | Dr. Sanyog Rawat (Guest) |
| 11 | Vishal Das [MU - Jaipur] |
| 12 | Dr. Amit Rathi [MUJ] |
| 13 | Dr. Dinesh Yadav [MU - Jaipur] |
| 14 | Dr. Arun Shanbhag [MU - Jaipur] |
| 15 | Dr. Chusen Duari [MU - Jaipur] |
| 16 | Jamil Akhtar (Guest) |
| 17 | BUCHER Ralf (TRACTEBEL - GERMANY) |
| 19 | Siddhartha Panda (Guest) |
| 20 | Mr. Satya Narayan Agarwal [MUJ] |
| 21 | Mr. Satya Narayan Agarwal [MUJ] |
| 22 | Dr. Neeraj Kanwar [MU - Jaipur] |
| 23 | Pratham Tatraiya [EEE - 2020] |
| 24 | Lakhssassi, Ahmed |
| 25 | Shivang Seth [ECE - 2020] |
| 26 | Dr. Dhaneshwar Mishra [MU - Jaipur] |
| 27 | Allada Poorna Chand [ECE - 2019] |
| 28 | Rajnish Sahani [ECE - 2019] |
| 29 | Dr. Prashant (Guest) |
| 30 | DHIRENDRA MATHUR (Guest) |
| 31 | Vikas Kumar Boradak [MU - Jaipur] |
| 32 | Mr. Peeyush Garg [MUJ] |
| 33 | Mr. Himanshu Priyadarshi [MUJ] |
| 34 | Mr. Himanshu Priyadarshi [MUJ] |
| 35 | CEERI Suchandan Pal |
| 36 | Dr RANGA GUNTI [TPEM, Human Resources, Pune] |
| 37 | Vandana Priyanandini [ECE - 2019] |
| 38 | Dr. Tej Pal [MU - Jaipur] |
| 39 | Chandra Prakash Gupta [MU - Jaipur] |
| 40 | Shubham Dabre [ECE - 2020] |
| 41 | Samarendra Singh [MU - Jaipur] |
| 42 | Samarendra Singh [MU - Jaipur] |
| 43 | Muskaan Jain [ECE - 2019] |

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|----|-----------------------------------|
| 44 | Mahipal Bukya [MAHE-MITBLR] |
| 45 | Surbhi Wadhawan [ECE - 2019] |
| 46 | Dr. Shilpi Birla [MUJ] |
| 47 | Aditi Singh [ECE - 2019] |
| 48 | Varun Khurana [ECE - 2019] |
| 49 | Neha Singh [MU - Jaipur] |
| 50 | Sudipto Das [ECE - 2019] |
| 51 | Vinay Gupta [MU - Jaipur] |
| 52 | Riya Shivolkar [ECE - 2019] |
| 53 | Dr. Santosh Patil [MU - Jaipur] |
| 54 | Nayan Agrawal [EEE - 2020] |
| 55 | Urmila Debnath [EEE - 2020] |
| 56 | Dr. Uvais Valiyaneerilakkal [MUJ] |
| 57 | Dr. Neha Singh [MUJ] |
| 58 | Varun Khurana [ECE - 2019] |
| 59 | Dr. Himanshu Chaudhary [MUJ] |
| 60 | Vijay Kumar Sharma [MU - Jaipur] |
| 61 | Chirag Gupta [ECE - 2019] |
| 62 | Dr. Susruta Samanta [MUJ] |
| 63 | Mahipal Bukya |

Rajivani



**MANIPAL UNIVERSITY
JAIPUR**

PANEL DISCUSSION ON

**PRESENT AND FUTURE TRENDS OF ELECTRONICS &
ELECTRICAL ENGINEERING**

ORGANIZED BY

**SCHOOL OF ELECTRICAL, ELECTRONICS AND
COMMUNICATION ENGINEERING**

In Collaboration With

E-Cell

&

Directorate of International Collaboration

MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA

WITH

MOUS / COLLABORATIVE PARTNERS

DATE: JULY 04, 2022, TIME: 04:00 PM TO 05:30 PM



**MANIPAL UNIVERSITY
JAIPUR**

Prof. S. K. Singh



MANIPAL UNIVERSITY JAIPUR

FLYER

| | | | | | |
|---|--|--|--|--|--|
|  MANIPAL UNIVERSITY JAIPUR <small>University under Section 20B of the U.C.A. Act</small> | | SCHOOL OF ELECTRICAL, ELECTRONICS AND COMMUNICATION ENGINEERING MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA | |  | |
| PRESENT AND FUTURE TRENDS OF ELECTRONICS & ELECTRICAL ENGINEERING (Panel Discussion) VENUE: ONLINE (MICROSOFT TEAMS) DATE: JULY 04, 2022 TIME: 04:00 PM TO 05:30 PM | | | | | |
|  Prof Arun Shrivastava Manipal University Jaipur | |  Prof Jami Akhtar Manipal University Jaipur | |  Prof Amit Soni Manipal University Jaipur | |
|  Prof Lakshvansi Ahmed Universite du Quebec en Outaouais, Canada | |  Prof Fred Lumban Gaol BINUS University, Indonesia | |  Prof Vladimir Pavelyev Samara National Research University, Russia | |
|  Dr Ralf Becher Tractebel Engineering/ ENGIE, Germany | |  Dr Ajay Agarwal Indian Institute of Technology Jodhpur, India | |  Dr Srinivas Ganti Tata Motors, India | |
|  Prof Siddharth Panda Indian Institute of Technology Kanpur, India | |  Dr Suchandan Pal CSIR-CEERI Pilani, India | |  Dr Manish Kumar Hooda SCL, Department of Space, Government of India | |
|  Mr Sanjay Sharma Swem Water Tech Pvt Ltd, India | |  Dr Dhireendra Mathur Rajasthan Technical University Kota, India | |  Chief Patron Mr S. Vaitheswaran Manipal University Jaipur | |
|  Prof Manish Tiwari Department of ECE, MUJ | |  Dr Amit Saraswat Department of EE, MUJ | |  Patron Prof Gopabakrishna Prabhu Manipal University Jaipur | |
| | | Conveners Dr Kulwant Singh, Department of ECE, MUJ Dr Suddhendu Das Mahapatra, Department of ECE, MUJ Mr Divya Rishi Shrivastava, Department of EE, MUJ | |  Patron Prof Neetu Bhatnagar Manipal University Jaipur | |

Prof Neetu Bhatnagar



MANIPAL UNIVERSITY JAIPUR

Introduction & Objective:

On the special occasion of the retirement day of Prof. Jamil Akhtar (Director of the School of Electrical, Electronics and Communication Engineering, Manipal University Jaipur), The school has organized an **online panel discussion** on the topic '**Present and Future Trends of Electronics & Electrical Engineering**' on 4th July 2022 in online mode.

Several eminent speakers from renowned institutes and industries from all over the world shared their valuable insight about the optimistic career and research opportunities in the domain of Electronics and Electrical Engineering.

Speakers:

The following professionals from different corners of the world and having a strong collaborative association with Manipal University Jaipur have adorned the event.

Prof Lakhssassi, Ahmed, Université du Québec en Outaouais, Canada

Prof Vladimir Pavelyev, Samara National Research University, Russia

Dr. Ralf Bucher, Tractebel Engineering / ENGIE, Germany

Prof Siddharth Panda, IIT-K, India

Dr. Suchandan Pal, CSIR-CEERI Pilani, India

Dr. Direndra Mathur, Dean, RTU-KOTA, India

Dr. Srinivas Gunti, General Manager, Tata Motors, India

Description:

In the presence of the Pro-President, Prof. N.N. Sharma and the Dean, Faculty of Engineering, Prof. Arun Shanbhag, the event started with a welcome note by the Head of the ECE Department, Prof. Manish Tiwari.

Therefore, Prof. Amit Soni, the Director of International Collaboration, and Dr. Kulwant Singh, the Deputy-Director E-Cell, MUJ chaired an amazing and prolific conversation by the experts.

Prof Lakhssassi, Ahmed, Université du Québec en Outaouais, Canada elaborated on the huge opportunities in the field of development of smart microsystem technology along with cyber security interfacing.

Prof Vladimir Pavelyev, Samara National Research University, Russia added about the gigantic prospects in the domain of photonics and next-generation communication systems.

Dr. Ralf Bucher, Tractebel Engineering / ENGIE, Germany emphasized energy management systems and their future scope.

Prof Siddharth Panda, IIT-K, India highlighted the applications and scope in agriculture, food technology, and health care application.

Dr. Suchandan Pal, CSIR-CEERI Pilani, India stressed the opportunities of ECE and EE in the Indian and global scenario.



MANIPAL UNIVERSITY JAIPUR

Dr. Dhirendra Mathur, Dean, RTU-KOTA, India deliberated upon the requirement of material science & engineering, and nanotechnology for the next-generation systems

Dr. Srinivash Gunti, General Manager, Tata Motors, India highlighted the huge opportunities for smart automation in Electric vehicles and energy systems.

Prof. Jamil Akhtar, Director SEEC, MUJ, delivered the closing remarks of the event and referred to the multidimensional career and research opportunities in the domain of Electrical and Electronics Engineering.

The successful event ended with the remarks of a vote of thanks by Dr. Amit Saraswat, HoD, EE, MUJ.

Dr. Kulwant Singh, Dr. Suddhendu DasMahapatra, and Mr. Divya Rishi Srivastava convened the entire event with great success.

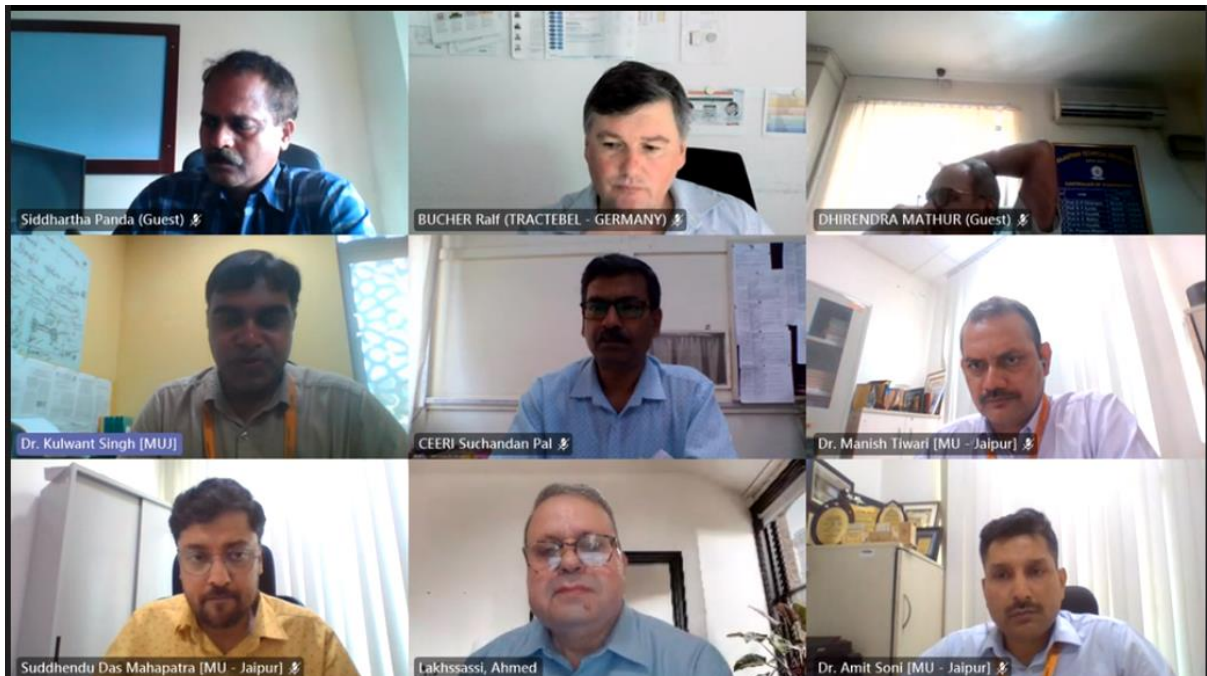


Figure-1: Glimpse of the program

Divya Rishi Srivastava

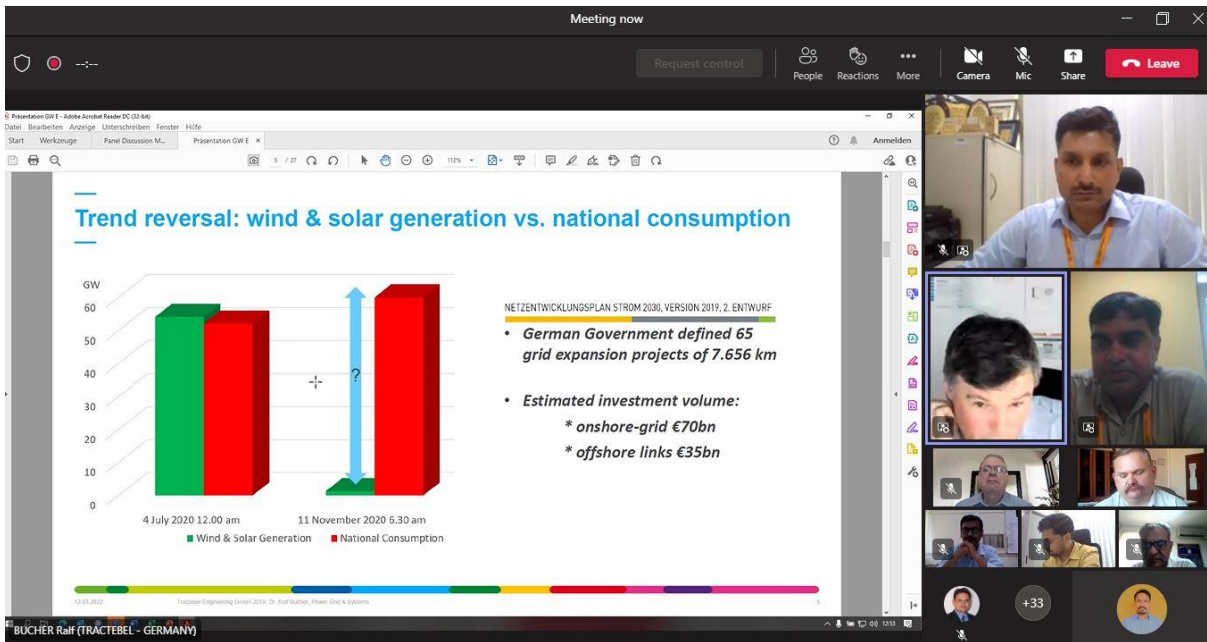


Figure-2: Address by Prof. Ralf

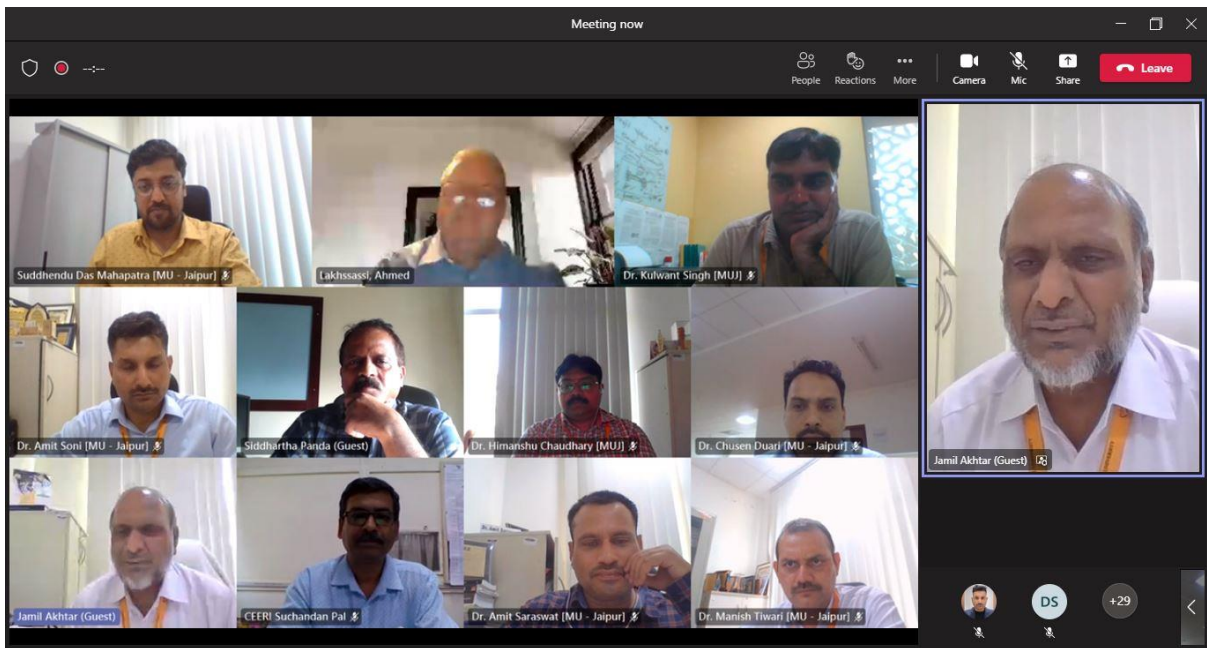


Figure-1: Closing Remarks by Prof. Jamil Akhtar

Link of MS Teams: <https://rb.gy/mdc8bk>

Attendance:

| Sl. No | Name |
|--------|---------------------------------------|
| 1 | Dr. Kulwant Singh [MUJ] |
| 2 | Suddhendu Das Mahapatra [MU - Jaipur] |
| 3 | Dr. Amit Soni [MU - Jaipur] |

J. Akhtar



MANIPAL UNIVERSITY JAIPUR

| | |
|----|--|
| 4 | Divya Rishi Shrivastava [MU - Jaipur] |
| 5 | Dr. Manish Tiwari [MU - Jaipur] |
| 6 | Vladimir Pavelyev (гость) |
| 7 | Dr. Amit Saraswat [MU - Jaipur] |
| 8 | Dr. Niti Nipun Sharma [MU - Jaipur] |
| 9 | Dr. Manish Thukral [MUJ] |
| 10 | Dr. Sanyog Rawat (Guest) |
| 11 | Vishal Das [MU - Jaipur] |
| 12 | Dr. Amit Rathi [MUJ] |
| 13 | Dr. Dinesh Yadav [MU - Jaipur] |
| 14 | Dr. Arun Shanbhag [MU - Jaipur] |
| 15 | Dr. Chusen Duari [MU - Jaipur] |
| 16 | Jamil Akhtar (Guest) |
| 17 | BUCHER Ralf (TRACTEBEL - GERMANY) |
| 19 | Siddhartha Panda (Guest) |
| 20 | Mr. Satya Narayan Agarwal [MUJ] |
| 21 | Mr. Satya Narayan Agarwal [MUJ] |
| 22 | Dr. Neeraj Kanwar [MU - Jaipur] |
| 23 | Pratham Tatraiya [EEE - 2020] |
| 24 | Lakhssassi, Ahmed |
| 25 | Shivang Seth [ECE - 2020] |
| 26 | Dr. Dhaneshwar Mishra [MU - Jaipur] |
| 27 | Allada Poorna Chand [ECE - 2019] |
| 28 | Rajnish Sahani [ECE - 2019] |
| 29 | Dr. Prashant (Guest) |
| 30 | DHIRENDRA MATHUR (Guest) |
| 31 | Vikas Kumar Boradak [MU - Jaipur] |
| 32 | Mr. Peeyush Garg [MUJ] |
| 33 | Mr. Himanshu Priyadarshi [MUJ] |
| 34 | Mr. Himanshu Priyadarshi [MUJ] |
| 35 | CEERI Suchandan Pal |
| 36 | Dr RANGA GUNTI [TPEM, Human Resources, Pune] |
| 37 | Vandana Priyanandini [ECE - 2019] |
| 38 | Dr. Tej Pal [MU - Jaipur] |
| 39 | Chandra Prakash Gupta [MU - Jaipur] |
| 40 | Shubham Dabre [ECE - 2020] |
| 41 | Samarendra Singh [MU - Jaipur] |
| 42 | Samarendra Singh [MU - Jaipur] |
| 43 | Muskaan Jain [ECE - 2019] |

Refined



MANIPAL UNIVERSITY JAIPUR

| | |
|----|-----------------------------------|
| 44 | Mahipal Bukya [MAHE-MITBLR] |
| 45 | Surbhi Wadhawan [ECE - 2019] |
| 46 | Dr. Shilpi Birla [MUJ] |
| 47 | Aditi Singh [ECE - 2019] |
| 48 | Varun Khurana [ECE - 2019] |
| 49 | Neha Singh [MU - Jaipur] |
| 50 | Sudipto Das [ECE - 2019] |
| 51 | Vinay Gupta [MU - Jaipur] |
| 52 | Riya Shivolkar [ECE - 2019] |
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| 63 | Mahipal Bukya |

Rajivani



**MANIPAL UNIVERSITY
JAIPUR**

FACULTY OF ENGINEERING

SCHOOL OF INFORMATION TECHNOLOGY

&

**SCHOOL OF ELECTRICAL, ELECTRONICS, AND COMMUNICATION
ENGINEERING**

DIRECTORATE OF STUDENTS' WELFARE

Talk on Journey of Mobile Communication from 1G to 5G

during

National level

Project Expo 2022

Electronics Society, IEEE MTT-S, APS, AESS

OFFLINE EVENT

Date of Event (11th November 2022)

(10.:30 am onwards)

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1. Introduction of the Event

Project Expo was organized as a national level offline event bringing together the best technical minds of Jaipur city and a platform to showcase and present their projects in front of a highly qualified panel. Any project involving innovation in the field of Electronics was welcomed. The participation was in teams of not more than 4 members with students from Manipal University Jaipur receiving entry at ₹100 per team while teams of other colleges would be charged a fee of ₹200 per team (viz. A team from an institution other than Manipal University Jaipur will pay an upfront fee of ₹200 for registering the team). The teams were judged on the innovation and creativity that went into the project, how well were they able to present their points including the efficiency of answering questions from the judge panel and the use their project holds in the real world. However, the final judgement was reserved with the judge panel and they may feel free to use any marking scheme they see fit.

2. Objectives of the Event

Project Expo aimed to provide a platform for teams from all over Jaipur to present their projects to a larger stage and receive reviews from respected judge panel, the winners were awarded from a prize pool of ₹15,000. With the help of this event, it was hoped to provide a stage to get recognized and validation from esteemed judges, every participant was assured to leave with highly valuable feedback. It also strives to show the audience and the attendees the advancements in the field of technology and electronics and how using that numerous projects that hold actual value can be made just by a creative mind. Project Expo also aspired to motivate the younger batches of engineers by showing that it does not require highly advanced tools and laboratories to build projects that solve real world problems, have a positive impact on our society and have valuable applications.

3. Beneficiaries of the Event

The Event was conducted by the club Electronics Society in association with IEEE MTT-S, IEEE APS and IEE AESS student Chapters, E-Cell MUJ, Atal Incubation Centre and School of Electrical Electronics and Communication (SEEC), Department of Electronics and Communications Engineering (ECE) and School of Information Technology (SIT).

4. Talk by the Industry Experts of Wireless Field during the inauguration of the event

Sh. Sanjay Kumar, (Principal General Manager) PGM Jaipur, BSNL as **Chief Guest**, and Sh. Gunjan Saxena, Deputy Director General, Department of Telecommunication, Govt. of Rajasthan as **Guest of Honor** for this event delivered their addresses to the audience regarding **Journey of Mobile Communication for 1G to 5G Communication**. During their talk Sh. Gunjan Saxena and Sh. Sanjay Kumar Ji discussed about the requirements of upcoming 5G Communication.



5. Brief Description of the event

The event will be conducted in front of an audience, with the judges comprising of interested faculty members of Manipal University Jaipur. The participating teams will present their projects, for which they need to make a PowerPoint presentation of at least 10 slides followed by physical demonstration of the same. The teams will be given a time limit of 10 minutes each from which they will divide the time for presentation and physical demonstration as they see fit. The judge panel and/or the audience may ask their questions from the teams after the respective team has finished their presentation, for which time allotted will be 5 minutes. All the participating teams will be provided with a physical participation certificate, refreshments and the winners being presented with trophies and certificate of achievements. The judges will be presented with a memento expressing gratitude and a token of appreciation. The marking will be done based on three factors, Innovation, Execution and Presentation, judges will be urged to use a scale of 10 to grade the respective categories and the total of the scores (out of 30) would determine the final score of a team, further used in ranking the teams in a leaderboard. The 3 prize holders will get a chance of preincubation by E-Cell and AIC which includes support to the teams if they choose to go further with their projects and build a prototype to be launched in consumer markets. The event would be conducted in three major stages, opening ceremony commencing the event followed by the presentation of the participants and finishing with a closing ceremony distributing the prizes according to the grades obtained. The prizes offered would be the top three standings comprising of the monetary prize pool.

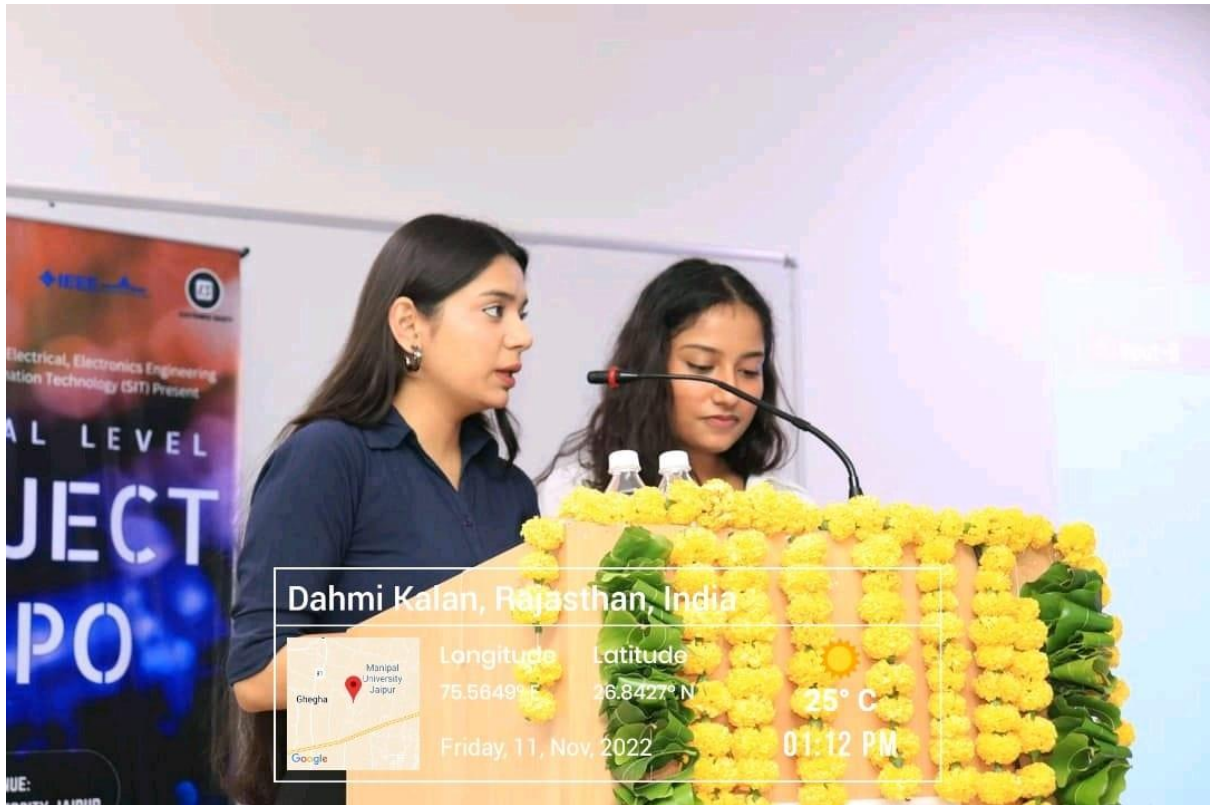
Faculties Present –

- Dr. Dinesh Yadav, Faculty Coordinator Electronics Society, IEEE MTT-S SBC
- Dr. Amit Soni, Director – School of Electrical Electronics and Communications
- Dr. Manish Tiwari, Head of Dept. – School of Electronics and Communications
- Dr. Amit Saraswat, Head of Dept. – School of Electrical and Electronics Engineering
- Dr. Sumit Shrivastava, Director - SIT

6. Photograph







7. Brochure or Creative of the Event



MANIPAL UNIVERSITY JAIPUR **MTT-S MHz to THz Community** **IEEE** **ES ELECTRONICS SOCIETY**

YOU ARE CORDIALLY INVITED FOR
THE INAUGURATION OF NATIONAL LEVEL
**PROJECT EXPO
2022**

Hosted by Department of ECE, School of Electrical, Electronics Engineering (SEEC) and School of Information Technology (SIT)

DATE: 11 NOVEMBER, 2022

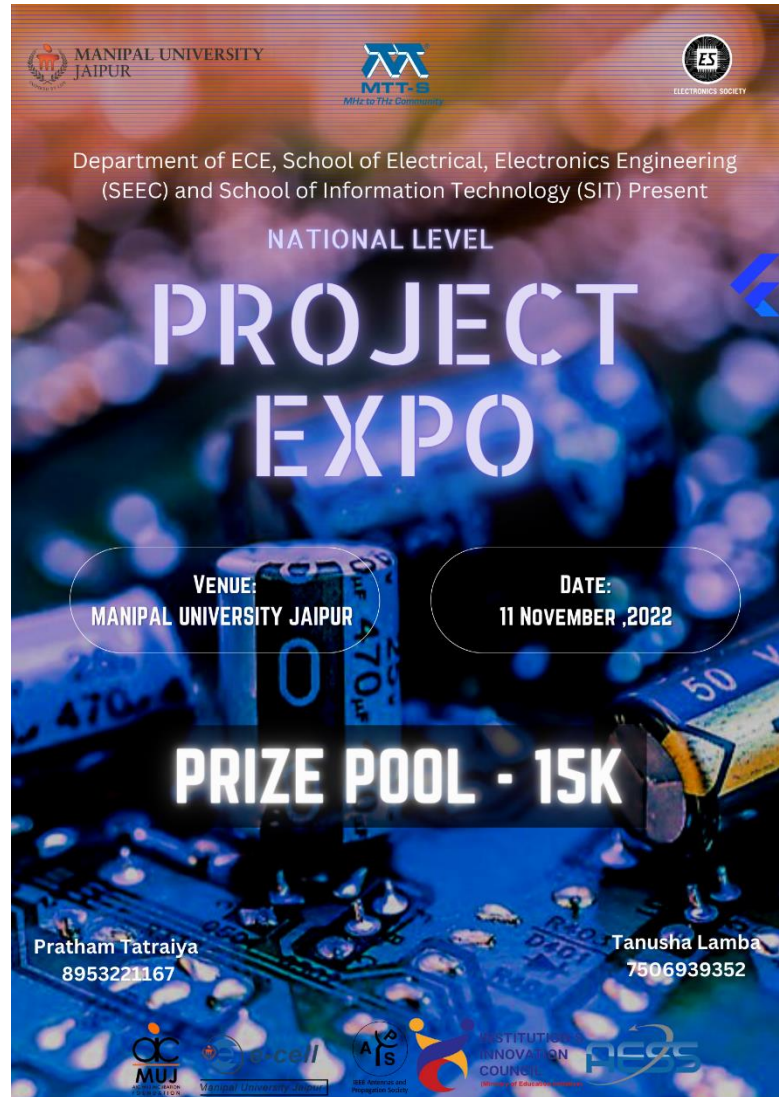
| | | |
|--|---|--|
|  <p>CHIEF GUEST SH. SANJAY KUMAR PGM (PRINCIPAL GENERAL MANAGER) JAIPUR BHARAT SANCHAR NIGAM LIMITED</p> |  <p>GUEST OF HONOR SH. GUNJAN SAXENA DY. DIRECTOR GENERAL DEPARTMENT OF TELECOMMUNICATION JAIPUR, RAJASTHAN</p> |  <p>PRESIDED BY PROF. G. K. PRABHU PRESIDENT MANIPAL UNIVERSITY JAIPUR</p> |
|--|---|--|

INAUGURAL CEREMONY (10.30 AM ONWARDS) **VENUE - ROOM No. 307, 1A8**

PROJECT EXHIBITION (11.15 AM ONWARDS) **VENUE - 1A8 LOBBY IN FRONT OF LIFT**

PRIZE POOL - 15K

A/S **IEEE Antennas and Propagation Society** **AESS** **e-cell** **Manipal University Jaipur** **INSTITUTION'S INNOVATION COUNCIL** **University of Education Initiative** **OC MUJ** **MANIPAL UNIVERSITY JAIPUR FOUNDATION**



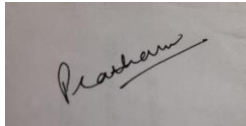
8. Schedule of the event

| EVENT | TIME | | VENUE |
|------------------------------------|---------------------|--|--|
| Opening Ceremony | 10:00 – 11:00 hours | | Room No. 307 (1 AB) |
| Teams' Presentation (Project Expo) | 11:00 – 13:30 hours | | Ground floor Lobby (1 AB) in front of lift |
| Lunch | 13:30 – 14:30 hours | | -- |
| Closing Ceremony | 14:30-15:30 hours | | Room No. 307 (1 AB) |

9. Attendance of the event:

| Institution | Name | Registration no. | Branch |
|---------------------------|-------------------------|------------------|--------|
| Manipal University Jaipur | Aryan Piyush | 209202022 | ECE |
| Manipal University Jaipur | Avneesh Sharma | 209202086 | ECE |
| Manipal University Jaipur | Nikhita Gondane | 209202149 | ECE |
| Manipal University jaipur | Shubham Dabre | 209202004 | ECE |
| Manipal University Jaipur | Mohd Ayaan khan | 209202035 | ECE |
| Manipal University Jaipur | Vanshdeep Singh Chopra | 209205038 | ECE |
| Manipal University Jaipur | Arya Nitin Ashar | 209205029 | ECE |
| Manipal University Jaipur | Aadil Khalid Khan | 199102013 | ECE |
| Manipal University Jaipur | Abhinandan Kumar Tiwary | 209202228 | ECE |
| Manipal University Jaipur | Nishant Kumar Tyagi | 209205035 | ECE |
| Manipal University Jaipur | Avneesh Sharma | 209202086 | ECE |
| Manipal University Jaipur | Darshan Kapoor | 209403016 | ECE |
| Manipal University Jaipur | Jay Shah | 209202204 | ECE |
| Manipal University jaipur | Praneeth maleedu | 209202153 | ECE |
| Manipal University Jaipur | Shah Jay | 209202204 | ECE |
| Manipal University Jaipur | PRANALI SAXENA | 209202007 | ECE |
| Manipal University Jaipur | Utkarsh Raj | 209202168 | ECE |
| Manipal University Jaipur | Natasha Sanyal | 209202108 | ECE |
| Manipal University Jaipur | Shobhit | 209202063 | ECE |
| Manipal University Jaipur | Aryan Shreyas Chitale | 209202167 | ECE |
| Manipal University Jaipur | Gautam Vhavle | 219302198 | ECE |
| Manipal University Jaipur | Pracheth Dasika | 209205014 | ECE |
| Manipal University Jaipur | Devansh Jain | 199102004 | ECE |
| Manipal University Jaipur | Vansh Bhansali | 209202239 | ECE |
| Manipal University Jaipur | Suhani Patil | 209202159 | ECE |
| Manipal University Jaipur | Mohit Choudhary | 209205052 | ECE |
| Manipal University Jaipur | Abhishek Deep | 209202169 | ECE |
| Manipal University Jaipur | Himanshu Jadhav | 209202067 | ECE |
| Manipal University Jaipur | Sampath | 209202055 | ECE |
| Manipal University Jaipur | Himanshu Jadhav | 209202067 | ECE |
| Manipal University Jaipur | Abhinav kumar | 209202047 | ECE |
| Manipal University Jaipur | Rasika | 209202161 | ECE |
| Manipal University Jaipur | Shivam Singh Dasauni | 209202087 | ECE |
| Manipal University Jaipur | Maitreya Sawant | 209205025 | ECE |
| Manipal University Jaipur | Anuj Upadhyay | 209205046 | ECE |
| Manipal University Jaipur | Yatin Kohli | 209403007 | ECE |
| Manipal University Jaipur | Nikitha | 209202149 | ECE |
| Manipal University Jaipur | Kumar ayush | 209202196 | ECE |
| Manipal University Jaipur | Ajsusabi | 209202095 | ECE |
| Manipal University Jaipur | Himanshu Kumar | 209202218 | ECE |
| Manipal University Jaipur | Sihil | 209202163 | ECE |
| Manipal University Jaipur | Sanskar Awate | 209205044 | ECE |
| Manipal University Jaipur | Natasha | 209202108 | ECE |
| Manipal University Jaipur | Shudanshu mishra | 209202133 | ECE |

| | | | |
|--|-------------------------|-----------|-----|
| Manipal University Jaipur | Ridhi | 209101010 | ECE |
| Manipal University Jaipur | Krishi Jalan | 209202240 | ECE |
| Manipal University Jaipur | Piyushraj Singh | 209202207 | ECE |
| University of engineering and management, Jaipur | Divyansh Sachdev | N/A | ECE |
| University of Engineering and Management, Jaipur | Shruti Rajdhar | N/A | ECE |
| University of Engineering and Management | Sharwar Ahmed Chowdhury | N/A | ECE |
| University of Engineering and Management, Jaipur | PRATIK NAG | N/A | ECE |
| University of Engineering and Management Jaipur | Dipannita Das | N/A | ECE |
| University of Engineering and Management Jaipur | Turjo Roy | N/A | ECE |
| University of Engineering and Management, Jaipur | PRATIK NAG | N/A | ECE |
| Poornima College of Engineering | Priyanshi mittal | N/A | ECE |
| Poornima College of Engineering | Lalit Kumar Yadav | N/A | ECE |
| Poornima College of Engineering | Anshul Kumar Jain | N/A | ECE |
| Poornima College of Engineering | Anushka Patel | N/A | ECE |
| Poornima College of Engineering | Ashish Kumar | N/A | ECE |
| Poornima College of Engineering | Meena Ashwini Seetaram | N/A | ECE |
| SKIT Jaipur | Sanjana Jawaria | N/A | ECE |
| SKIT Jaipur | Shubham Jain | N/A | ECE |
| SKIT Jaipur | Pratik Singh | N/A | ECE |
| SKIT Jaipur | Utsav Jain | N/A | ECE |
| Jaipur engineering college, kukas, Jaipur | Abhinav kumar | N/A | ECE |



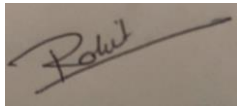
Signature of the Student Coordinator

Pratham Tatraiya
President, Electronics Society




Signature of the Faculty Coordinator

Dr. Dinesh Yadav
Faculty Coordinator – Electronics Society
Assistant Director, E-cell, Faculty Advisor IEEE MTTs-ECE



Mr. Rohit Kumar Gupta

Faculty Convener
Assistant Professor (SIT)

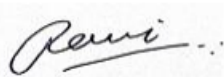


Dr. Sumit Srivastava

Professor, Director SIT



Professor, Director SEEC



Dr. Ravi Kumar Sharma

Director, E-cell



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Project Expo aimed to provide a platform for teams from all over Jaipur to present their projects to a larger stage and receive reviews from respected judge panel, the winners were awarded from a prize pool of ₹15,000. With the help of this event, it was hoped to provide a stage to get recognized and validation from esteemed judges, every participant was assured to leave with highly valuable feedback. It also strives to show the audience and the attendees the advancements in the field of technology and electronics and how using that numerous projects that hold actual value can be made just by a creative mind. Project Expo also aspired to motivate the younger batches of engineers by showing that it does not require highly advanced tools and laboratories to build projects that solve real world problems, have a positive impact on our society and have valuable applications.

3. Beneficiaries of the Event

The Event was conducted by the club Electronics Society in association with IEEE MTT-S, IEEE APS and IEE AESS student Chapters, E-Cell MUJ, Atal Incubation Centre and School of Electrical Electronics and Communication (SEEC), Department of Electronics and Communications Engineering (ECE) and School of Information Technology (SIT).

4. Talk by the Industry Experts of Wireless Field during the inauguration of the event

Sh. Sanjay Kumar, (Principal General Manager) PGM Jaipur, BSNL as **Chief Guest**, and Sh. Gunjan Saxena, Deputy Director General, Department of Telecommunication, Govt. of Rajasthan as **Guest of Honor** for this event delivered their addresses to the audience regarding **Journey of Mobile Communication for 1G to 5G Communication**. During their talk Sh. Gunjan Saxena and Sh. Sanjay Kumar Ji discussed about the requirements of upcoming 5G Communication.



5. Brief Description of the event

The event will be conducted in front of an audience, with the judges comprising of interested faculty members of Manipal University Jaipur. The participating teams will present their projects, for which they need to make a PowerPoint presentation of at least 10 slides followed by physical demonstration of the same. The teams will be given a time limit of 10 minutes each from which they will divide the time for presentation and physical demonstration as they see fit. The judge panel and/or the audience may ask their questions from the teams after the respective team has finished their presentation, for which time allotted will be 5 minutes. All the participating teams will be provided with a physical participation certificate, refreshments and the winners being presented with trophies and certificate of achievements. The judges will be presented with a memento expressing gratitude and a token of appreciation. The marking will be done based on three factors, Innovation, Execution and Presentation, judges will be urged to use a scale of 10 to grade the respective categories and the total of the scores (out of 30) would determine the final score of a team, further used in ranking the teams in a leaderboard. The 3 prize holders will get a chance of preincubation by E-Cell and AIC which includes support to the teams if they choose to go further with their projects and build a prototype to be launched in consumer markets. The event would be conducted in three major stages, opening ceremony commencing the event followed by the presentation of the participants and finishing with a closing ceremony distributing the prizes according to the grades obtained. The prizes offered would be the top three standings comprising of the monetary prize pool.

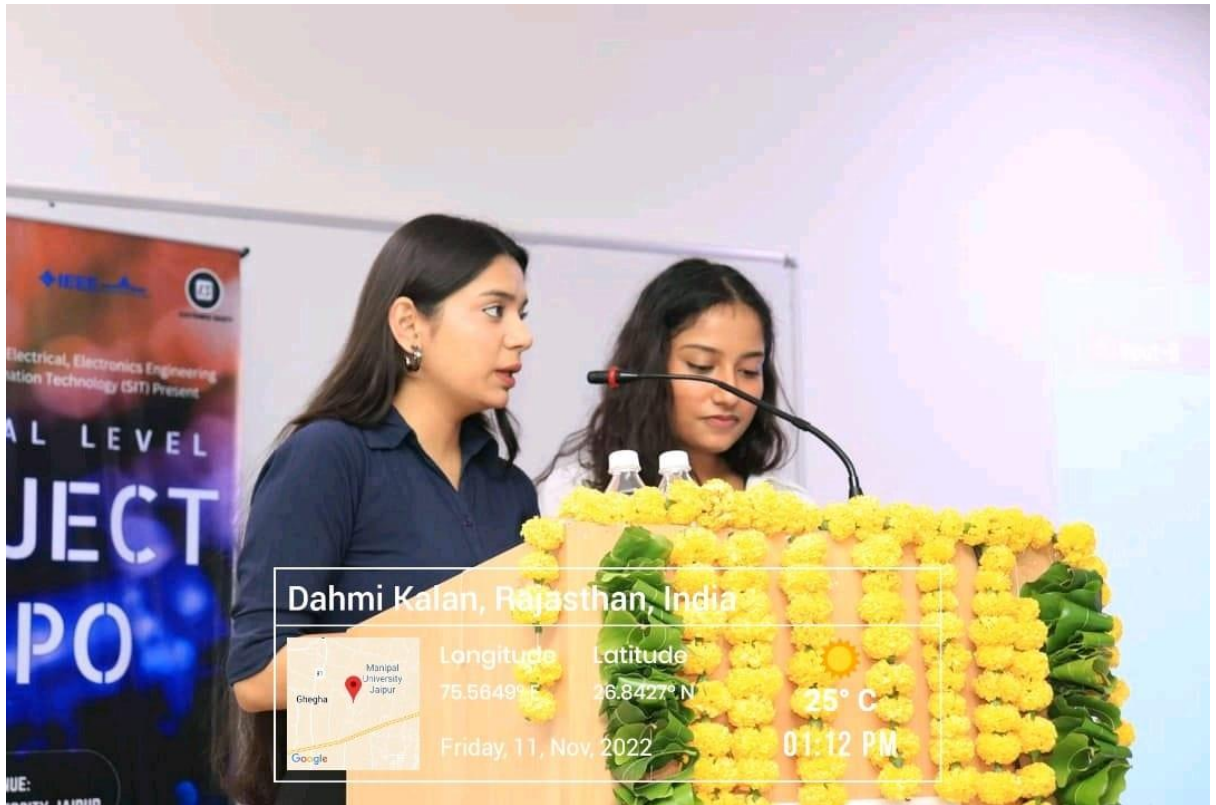
Faculties Present –

- Dr. Dinesh Yadav, Faculty Coordinator Electronics Society, IEEE MTT-S SBC
- Dr. Amit Soni, Director – School of Electrical Electronics and Communications
- Dr. Manish Tiwari, Head of Dept. – School of Electronics and Communications
- Dr. Amit Saraswat, Head of Dept. – School of Electrical and Electronics Engineering
- Dr. Sumit Shrivastava, Director - SIT

6. Photograph







7. Brochure or Creative of the Event



MANIPAL UNIVERSITY JAIPUR

IEEE

ES ELECTRONICS SOCIETY

YOU ARE CORDIALLY INVITED FOR

THE INAUGURATION OF NATIONAL LEVEL

PROJECT EXPO 2022

Hosted by Department of ECE, School of Electrical, Electronics Engineering (SEEC) and School of Information Technology (SIT)

DATE: 11 NOVEMBER, 2022



CHIEF GUEST
SH. SANJAY KUMAR
PGM (PRINCIPAL GENERAL MANAGER) JAIPUR
BHARAT SANCHAR NIGAM LIMITED



GUEST OF HONOR
SH. GUNJAN SAXENA
DY. DIRECTOR GENERAL
DEPARTMENT OF TELECOMMUNICATION
JAIPUR, RAJASTHAN



PRESIDED BY
PROF. G. K. PRABHU
PRESIDENT
MANIPAL UNIVERSITY JAIPUR

INAUGURAL CEREMONY
(10.30 AM ONWARDS)

VENUE - ROOM No. 307, 1A8

PROJECT EXHIBITION
(11.15 AM ONWARDS)

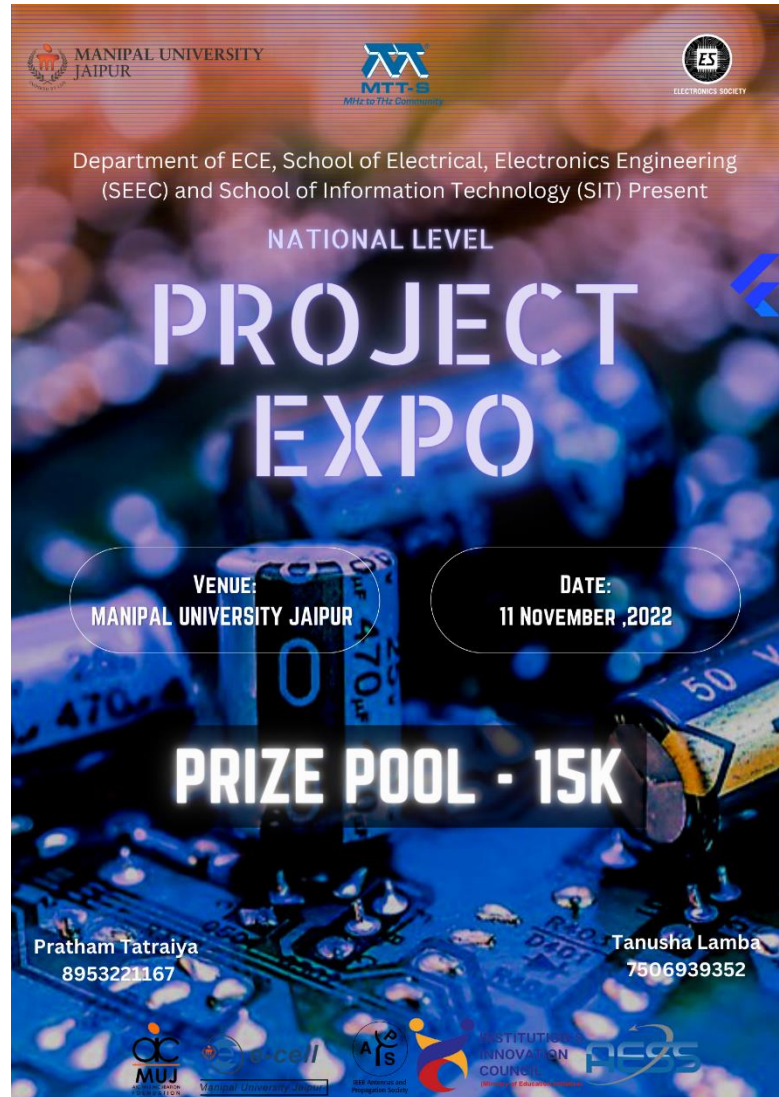
VENUE - 1A8 LOBBY IN
FRONT OF LIFT

PRIZE POOL - 15K







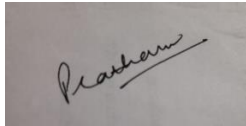
8. Schedule of the event

| EVENT | TIME | | VENUE |
|------------------------------------|---------------------|--|--|
| Opening Ceremony | 10:00 – 11:00 hours | | Room No. 307 (1 AB) |
| Teams' Presentation (Project Expo) | 11:00 – 13:30 hours | | Ground floor Lobby (1 AB) in front of lift |
| Lunch | 13:30 – 14:30 hours | | -- |
| Closing Ceremony | 14:30-15:30 hours | | Room No. 307 (1 AB) |

9. Attendance of the event:

| Institution | Name | Registration no. | Branch |
|---------------------------|-------------------------|------------------|--------|
| Manipal University Jaipur | Aryan Piyush | 209202022 | ECE |
| Manipal University Jaipur | Avneesh Sharma | 209202086 | ECE |
| Manipal University Jaipur | Nikhita Gondane | 209202149 | ECE |
| Manipal University jaipur | Shubham Dabre | 209202004 | ECE |
| Manipal University Jaipur | Mohd Ayaan khan | 209202035 | ECE |
| Manipal University Jaipur | Vanshdeep Singh Chopra | 209205038 | ECE |
| Manipal University Jaipur | Arya Nitin Ashar | 209205029 | ECE |
| Manipal University Jaipur | Aadil Khalid Khan | 199102013 | ECE |
| Manipal University Jaipur | Abhinandan Kumar Tiwary | 209202228 | ECE |
| Manipal University Jaipur | Nishant Kumar Tyagi | 209205035 | ECE |
| Manipal University Jaipur | Avneesh Sharma | 209202086 | ECE |
| Manipal University Jaipur | Darshan Kapoor | 209403016 | ECE |
| Manipal University Jaipur | Jay Shah | 209202204 | ECE |
| Manipal University jaipur | Praneeth maleedu | 209202153 | ECE |
| Manipal University Jaipur | Shah Jay | 209202204 | ECE |
| Manipal University Jaipur | PRANALI SAXENA | 209202007 | ECE |
| Manipal University Jaipur | Utkarsh Raj | 209202168 | ECE |
| Manipal University Jaipur | Natasha Sanyal | 209202108 | ECE |
| Manipal University Jaipur | Shobhit | 209202063 | ECE |
| Manipal University Jaipur | Aryan Shreyas Chitale | 209202167 | ECE |
| Manipal University Jaipur | Gautam Vhavle | 219302198 | ECE |
| Manipal University Jaipur | Pracheth Dasika | 209205014 | ECE |
| Manipal University Jaipur | Devansh Jain | 199102004 | ECE |
| Manipal University Jaipur | Vansh Bhansali | 209202239 | ECE |
| Manipal University Jaipur | Suhani Patil | 209202159 | ECE |
| Manipal University Jaipur | Mohit Choudhary | 209205052 | ECE |
| Manipal University Jaipur | Abhishek Deep | 209202169 | ECE |
| Manipal University Jaipur | Himanshu Jadhav | 209202067 | ECE |
| Manipal University Jaipur | Sampath | 209202055 | ECE |
| Manipal University Jaipur | Himanshu Jadhav | 209202067 | ECE |
| Manipal University Jaipur | Abhinav kumar | 209202047 | ECE |
| Manipal University Jaipur | Rasika | 209202161 | ECE |
| Manipal University Jaipur | Shivam Singh Dasauni | 209202087 | ECE |
| Manipal University Jaipur | Maitreya Sawant | 209205025 | ECE |
| Manipal University Jaipur | Anuj Upadhyay | 209205046 | ECE |
| Manipal University Jaipur | Yatin Kohli | 209403007 | ECE |
| Manipal University Jaipur | Nikitha | 209202149 | ECE |
| Manipal University Jaipur | Kumar ayush | 209202196 | ECE |
| Manipal University Jaipur | Ajsusabi | 209202095 | ECE |
| Manipal University Jaipur | Himanshu Kumar | 209202218 | ECE |
| Manipal University Jaipur | Sihil | 209202163 | ECE |
| Manipal University Jaipur | Sanskar Awate | 209205044 | ECE |
| Manipal University Jaipur | Natasha | 209202108 | ECE |
| Manipal University Jaipur | Shudanshu mishra | 209202133 | ECE |

| | | | |
|--|-------------------------|-----------|-----|
| Manipal University Jaipur | Ridhi | 209101010 | ECE |
| Manipal University Jaipur | Krishi Jalan | 209202240 | ECE |
| Manipal University Jaipur | Piyushraj Singh | 209202207 | ECE |
| University of engineering and management, Jaipur | Divyansh Sachdev | N/A | ECE |
| University of Engineering and Management, Jaipur | Shruti Rajdhar | N/A | ECE |
| University of Engineering and Management | Sharwar Ahmed Chowdhury | N/A | ECE |
| University of Engineering and Management, Jaipur | PRATIK NAG | N/A | ECE |
| University of Engineering and Management Jaipur | Dipannita Das | N/A | ECE |
| University of Engineering and Management Jaipur | Turjo Roy | N/A | ECE |
| University of Engineering and Management, Jaipur | PRATIK NAG | N/A | ECE |
| Poornima College of Engineering | Priyanshi mittal | N/A | ECE |
| Poornima College of Engineering | Lalit Kumar Yadav | N/A | ECE |
| Poornima College of Engineering | Anshul Kumar Jain | N/A | ECE |
| Poornima College of Engineering | Anushka Patel | N/A | ECE |
| Poornima College of Engineering | Ashish Kumar | N/A | ECE |
| Poornima College of Engineering | Meena Ashwini Seetaram | N/A | ECE |
| SKIT Jaipur | Sanjana Jawaria | N/A | ECE |
| SKIT Jaipur | Shubham Jain | N/A | ECE |
| SKIT Jaipur | Pratik Singh | N/A | ECE |
| SKIT Jaipur | Utsav Jain | N/A | ECE |
| Jaipur engineering college, kukas, Jaipur | Abhinav kumar | N/A | ECE |



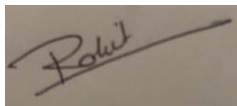
Signature of the Student Coordinator

Pratham Tatraiya
President, Electronics Society



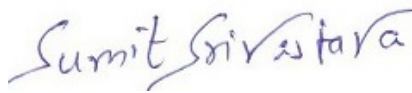
Signature of the Faculty Coordinator

Dr. Dinesh Yadav
Faculty Coordinator – Electronics Society
Assistant Director, E-cell, Faculty Advisor IEEE MTTs-ECE



Mr. Rohit Kumar Gupta

Faculty Convener
Assistant Professor (SIT)

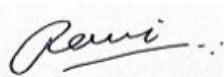


Dr. Sumit Srivastava

Professor, Director SIT



Professor, Director SEEC



Dr. Ravi Kumar Sharma

Director, E-cell