

Details of patents published during academic year 2020-2021

| S.No | Application Number | Title | Applicant Name | Date of filing |
|------|--------------------|---|----------------|----------------|
| 1 | 202041029849 | 3D printed PLA sheets embedded bio-composite manufacturing method thereof | Mr.D.Balaji | 14.07.2020 |
| 2 | 202041033177 | Method for manufacturing front-end module by combining fiber reinforced plastic and metal thereof | Mr.D. Balaji | 05.08.2020 |
| 3 | 202041042044 | Low cost metal 3D printer manufacturing method thereof | Mr.D. Balaji | 28.09.2020 |
| 4 | 202041042045 | Eco-friendly 3D printing filament manufacturing technique | Mr.D. Balaji | 28.09.2020 |
| 5 | 202041042046 | Device for cleaning the rest rooms automatically | Mr.D. Balaji | 28.09.2020 |
| 6 | 202041042047 | Method of manufacturing hybrid composite | Mr.D. Balaji | 28.09.2020 |
| 7 | 202041042048 | Method of soft metal 3D printing and welding thereof | Mr.D. Balaji | 28.09.2020 |
| 8 | 202041043821 | Improving the security of Internet of Things application devices using Logical Nodes of Virtual Overlay Network (LNVON) | Mr.D. Balaji | 08.10.2020 |
| 9 | 202041046568 | Integrating encryption and encapsulation to improve multilevel security in IOT network system | Mr.D. Balaji | 26.10.2020 |
| 10 | 202041052217 | Wind turbine nacelle with phase change material which controls temperature using AI | Mr.D. Balaji | 01.12.2020 |
| 11 | 202041052220 | Projector with phase change material | Mr.D. Balaji | 01.12.2020 |
| 12 | 202041055503 | Variable material | Mr.D. Balaji | 21.12.2020 |

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|----|--------------|---|--------------|------------|
| | | delivery 3D printing system | | |
| 13 | 202141003350 | Hybrid phase change material embedded over glove for better comfort with AI assistance | Mr.D. Balaji | 25.01.2021 |
| 14 | 202141006967 | Method of synthesising hybrid metal plastic composite and 3D Printing thereof | Mr.D. Balaji | 19.02.2021 |
| 15 | 202141006977 | Method of synthesising hybrid metal sand composite and 3D printing thereof for construction application | Mr.D. Balaji | 19.02.2021 |
| 16 | 202141006975 | Toy to learn life sciences | Mr.D. Balaji | 19.02.2021 |
| 17 | 202141006976 | Method of synthesising hybrid metal natural fiber composite and 3D Printing thereof | Mr.D. Balaji | 19.02.2021 |
| 18 | 202141009787 | System for converting non-segregated waste material into synthesized dough for 3D printing | Mr.D. Balaji | 09.03.2021 |
| 19 | 202141012213 | Green energy generation using solar, wind and mechanical systems | Mr.D. Balaji | 22.03.2021 |
| 20 | 202141012214 | An AI abetted green energy generating systems | Mr.D. Balaji | 22.03.2021 |
| 21 | 202141019605 | Green energy generation system with gas and mechanical elements | Mr.D. Balaji | 29.04.2021 |
| 22 | 202141019607 | Method of synthesising hybrid metal wood composite and 3D Printing thereof | Mr.D. Balaji | 29.04.2021 |
| 23 | 202141019608 | Hheight varying base plate of 3D printer for Z-axis accuracy | Mr.D. Balaji | 29.04.2021 |
| 24 | 202141027634 | Hybrid energy system with optimisation to draw more energy | Mr.D. Balaji | 21.06.2021 |