

Patents by KIIT Deemed to be University

Patents Filed :.....	1
Patents filed (by students/ by students in collaboration with faculty)	2
Patents Granted:.....	3

Patents Filed :

1. 'Circularly polarized antenna for multi frequency operation' filed by Prof. Subhrakanta Behera
2. 'Single layer single feed microstrip antenna array for multi standard radio communication' filed by Prof. Subhrakanta Behera.
3. 'Semi-Automated Compaction Machine' filed by Prof. B B Kar
4. 'Hydrogel for tissue engineering and methods of production and uses thereof' filed by Prof. Luna Goswami
5. 'A new liquid cell for Mev-electron irradiation at low Temperature' filed by Prof. S. Sahoo & Prof. R. N. Mukharjee
6. 'A l-asparaginase variant and its use as food processing aid' filed by Prof. Avinash Sonawane and Prof. Ranjit Kumar Mehta
7. 'A pharmaceutical Combination for treating Tuberculosis' ' filed by **Prof. Santosh Kar**, Prof. Gobardhan Das and **Prof. Mrutyunjay Suar**
8. 'A Telescopic platform connector device' filed by Prof. B. B. Kar
9. 'A wheeled walker with braking system ' filed by Prof. Ajay Kumar Behera
10. 'An online crack detection unit for railway tracks' filed by Prof. B. B. Kar
11. 'Apparatus and method for nanofluid spray cooling of hot metallic surfaces' filed by Prof. Santosh Kumar Nayak & Prof. Purna Chandra Mishra .
12. 'Atomized nano fluid spray impingement cooling system and process for hard turning' filed by Prof. Ramanuj Kumar, Prof. Purna Chandra Mishra And Prof. Ashok Kumar Sahoo.
13. 'Biosorbent for adsorptive separation of heavy metals from aqueous systems' filed by Prof. L. Goswami, Prof. A. Pal, Prof. M. Suar.
14. 'Colorimetric composition for detecting Cu ion using Au nanoparticle and detection method using the same' filed by Prof. C. S. Han, **Prof. S. K. Tripathy**
15. 'Electroless deposition of nano silver metal onto polyurethane regulating deposit size through mixed current' filed by **Prof. Krushna Gopal Mishra**, **Prof. Raja Kishore Paramguru**, Prof. Sasmita Mishra and Prof. Santosh Kumar Nathsharma
16. 'Exhaust gas separation and filtration by low temperature glow plasma ' filed by Prof. Akhilesh Dewangan and Prof. Isham Panigrahi



17. 'Gestro Mouse' filed by Prof. Ashutosh Behura
18. 'Integrated power system for generation of electricity' filed by Prof. B. B. Kar
19. 'Live Attenuated Salmonella Vaccine' filed by Prof. Balamurugan Periswamy Wolf
Dietich Hardt & **Prof. Mrutyunjay Suar**
20. 'Method of preparation of biodiesel and apparatus thereof' filed by Prof. Purna Chandra Mishra
& Prof. Swarup Kumar Nayak
21. 'Natural draft LPG cook stove' filed by **Prof. Purna Chandra Mishra** & Prof. Premananda Pradhan
22. Novel Aspraginases for the treatment of acute lymphatic leukemia' filed by Prof. Avinash
Sonawane and Prof. Ranjit Kumar Mehta
23. 'Novel therapeutic nano particle conjugates for the treatment of tuberculosis' filed by Prof.
Avinash Sonawane, Prof. Rojalin Sahu and Prof. Rashmirekha Pati
24. 'Patternator for mass flux measurement' filed by Prof. Purna Chandra Mishra, Prof. Santosh
Kumar Nayak & Prof. Manoj Ukamanal
25. 'Photocatalytic process for purification of waste water comprising of chemical and biological
pollutants' filed by Prof. Suraj Kumar Tripathy and Prof. Mrutyunjay Suar"
26. 'Portable biodiesel production system' filed by Prof. Swarup Kumar Nayak & Prof. Purna
Chandra Mishra
27. 'Pre mix and post mix process for producing biofuels with non-edible oils' filed by Prof. Purna
Chandra Mishra & Prof. Swarup Kumar Nayak
28. 'Process for synthesis of semiconductor device and its application for in-situ detection and
degradation of gases' filed by Prof. S. K.S. Parashar and Prof. Suraj Kumar Tripathy"
29. 'Production of metallic copper from copper oxide through reduction by low temperature
hydrogen plasma' filed by Prof. Kali Charan Sabat, **Raja Kishore Paramguru**, Barada Kanta Mishra
30. 'Production of nano size iron cobalt alloy powder by solid state reduction of oxides with cold
hydrogen plasma' filed by Prof. Kali Charan Sabat, **Raja Kishore Paramguru**, Barada Kanta Mishra
31. 'Rapid and recyclable synthesis of zeolite imidazole framework for efficient removal of heavy
metals and dyes from industrial effluents' filed by Prof. Avinash Sonawane and Rojalin Sahu"
32. 'System and method for micro channel cooling with air-water spray' filed by Prof. Sasmita Bal,
Purna Chandra Mishra & Ashok Kumar Satapathy
33. System and method for preservation of fluid dairy products' filed by Prof. S. K. Tripathy

Patents filed (by students/ by students in collaboration with faculty)

1. 'Exhaust air Purification System' filed by Prof. Diptesh Saha, Goutam Dutta
2. 'Run-out table mechanism with wireless control' filed by Prof. Sudhansu M. Padhy, Achintya
Kambli, Subham K Shah, Manoj Ukamanal, Purna Chandra Mishra & Ruby Mishra



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of UGC Act, 1956

Patents Granted:

1. 'Improving the properties of L-asparaginase for the treatment of acute lymphatic leukemia ' filed by Prof. Avinash Sonawane
2. 'N-Fused Aminoimidazoles as Novel Topoisomerase II@-Targetting Anti Cancer Agents ' filed by Prof. SK Guchhait, **Prof. CN Kundu**, Prof. UC Banerjee, Prof. A Baviskar, Prof. C Madan, Prof. A Agarwal, Prof. R Preet, Prof. P Mohapatra