

KOLHAN UNIVERSITY

CHAIBASA, WEST SINGHBHUM

JHARKHAND PIN - 833201

Date :

**Authorization Letter by Competent Authority**

This is to hereby certified that the following students are authorized for doing research projects in the University department of Physics for completion of their post graduate degree in the department of Physics, for the session 2019-2021, Kolhan University, Chaibasa.

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| --- | --- | --- | --- | --- | --- | --- |
| **Programme Name** | **Programme** **Code** | **Session** | **List of students undertaking field projects/ research projects/ internships** | **Roll No. of students undertaking field projects/ research projects/ internship** | **Title of Research** **Project** | **Place of Work** |
| MSc PHYSICS | ECPHY404 | 2019-2021 | LAXMI TAISUM | 202606506075 | LIGHT ABSORPTION THROUGH PLANTS LEAVES | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | ABINASH PRADHAN | 202606506087 | SUPERCONDUCTING PROPERTIES OF MgB2 | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | PUSHPA HANSDA | 202606506095 | NEGATIVE REFRACTIVE INDEX OF MATERIAL | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | LEENA MOHANTA | 202606506058 | COSMIC RAYS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | RAMRAI CHAKI | 20260506054 | GENERALISED FREQUENCY DIVISION MULTIPLEXING 5G CELLULAR SYSTEMS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | MANASMITA SAHOO | 20260506060 | GENERALIZATION OF NOETHER'S THEOREM IN CLASSICAL MECHANICS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | BIKRAM BARIK | 20260506070 | THE SUPERMASSIVE BLACK HOLE | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | DEEPAK MAHATO | 20260506052 | SMART HOME ANTI-THEFT SYSTEM: A NOVEL APPROACH FOR NEAR REAL TIME MONITORING AND SMART HOME SECURITY FOR WIRELESS PROTOCOL | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | ANUJ KUMAR PRADHAN | 20260506088 | MULTIFERROIC AS SMART MATERIALS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | MUKTIRANJAN MOHANTA | 20260506078 | IMPERFECTION IN CRYSTALS AND THEIR USE | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SUPRIT SAMPADAN NAYAK | 20260506097 | MECHANICAL PROPERTIES OF SOLIDS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | PRASNAJIT MANDAL | 20260506081 | SYNTHESIS AND STRUCTURAL ANALYSIS OF "Sr-DOPED BARIUM MAGNESIUM NIOBATE CERAMICS" | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SUBHASMITA PRADHAN | 20260506083 | GRAVITATIONAL WAVES | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | LUBNA DAS | 20260506092 | QUANTUM DOTS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | BADAL KUMAR MAHANTA | 20260506089 | PROJECT ON CELL-PHONE-BASED PLATFORM FOR BIOMEDICAL DEVICE DEVELOPMENT AND EDUCATION APPLICATIONS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | BIDYUTPRAVA MOHANTA | 20260506090 | POSITION SENSITIVE DETECTOR | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SWETA SINHA | 20260506098 | BLACK HOLE | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SATYASHREE MOHANTA | 20260506096 | SPECTROPHOTOMETER | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | UTPAL BHAKAT | 20260506086 | VISIBLE LIGHT COMMUNICATION FOR AUDIO SYSTEM | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | DIVYA CHOUDHRI | 20260506057 | HIGH POWER ULTRAFAST LASERS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | LOVELY PAT PINGUA | 20260506059 | GRAVITATIONAL RADIATION | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SWATI SUCHARITA PRADHAN | 20260506085 | OPTICAL FIBER | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SASMITA SAHOO | 20260506064 | LI FI TECHNOLOGY | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | BALRAM HANSDAH | 20260506069 | CARBON NANOTUBES | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SHRAVAN KUMAR TUDU | 20260506051 | GENERALISED FREQUENCY DIVISION MULTIPLEXING 5G CELLULAR SYSTEMS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SUMAN MOHANTY | 20260506084 | QANTUM COMPUTATION | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | NAMITA MOHANTA | 20260506093 | THEORY OF GRAVITATIONAL WAVES | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | PRADEEPTA ACHARYA | 20260506080 | LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | MAHABIR MAHATO | 20260506077 | SEARCHING FOR LIFE POSSIBILITY ON EXOPLANET | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | SHIBSANKAR MANDAL | 20260506065 | NEUTRINO OSCILLATIONS | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | DIPTIMAYEE MAHAPATRA | 20260506073 | SOCIO-ECONOMIC IMPACT OF SOLAR HOME SYSTEM IN BANGLADESH | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | NUPUR KAR | 20260506094 | FM STATION | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | POONAM KUMARI GOPE | 20260506079 | SOLAR ENERGY | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | PADMABATI MAHATO | 20260506055 | HIGH TEMPERATURE SUPERCONDUCTIVITY | Kolhan University, Chaibasa |
| MSc PHYSICS | ECPHY404 | 2019-2021 | RANJEET PRADHAN | 20260506082 | HIGH SPEED DATA SIGNAL TRANSMITTER AND RECEIVER OF AUDIO USING Li-Fi TECNOLOGY | Kolhan University, Chaibasa |

Thanking you,

H.O.D. Dean

University Department of Physics Faculty of Science

Kolhan University, Chaibasa