

## FACULTY PROFILE



1. Name: Dr. Rashmita Kumari Panigrahy
2. Designation: Assistant Professor-III
3. Department: P.G Dept. of Electronic Science
4. Experience: 12 Years
5. Date of Joining Berhampur University: 27.01.2010
6. Academic Background: M.Sc, Ph.D
7. Awards and Fellowships: -
8. Area of Specialization: RF & Microwave, Optical Communication
9. Subjects of interest: Communication, Solid state device, Electromagnetic Theory
10. Membership in Professional Bodies: IEEE
11. Research Publications (1<sup>st</sup> January 2016 to 31<sup>st</sup> December 2020):

| Sl. No. | Author (s)   | Title of the Paper   | Name of the Journal, Volume, Year, Page Number  |
|---------|--|--|---|
| 1.      | Subhrajit Pradhan, Bijayananda Patnaik, Rashmita Kumari Panigrahy  | DP-QPSK technique for ultra-high bit-rate DWDM FSO system,   | Journal of Optical Communications, De Gruyter Publishers, DOI : <a href="https://doi.org/10.1515/joc-2019-0075">https://doi.org/10.1515/joc-2019-0075</a> . |
| 2.      | Subhrajit Pradhan, Bijayananda Patnaik, Rashmita Kumari Panigrahy, | UltraHigh Bit-Rate Hybrid DWDM Optical System Design Using DP-QPSK Modulation                                | Journal of Optical Communications, De Gruyter Publishers, DOI : <a href="https://doi.org/10.1515/joc-2019-0075">https://doi.org/10.1515/joc-2019-0075</a> . |
| 3.      | Subhrajit Pradhan, Bijayananda Patnaik, Rashmita Kumari Panigrahy  | PerformanceEnhanced of Intersatellite optical wirelesscommunication by employing by various modulation tech. | IJMET,vol.8.issue.8,pp-224-232.,August 2017 issue.  |
| 4.      | Subhrajit Pradhan, Bijayananda Patnaik,                            | Adaptive & Blind Equalization in digital optical receiver.   | IJMET,vol.8.issue.8,pp-218-223 ,August 2017 issue.  |

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|    | Rashmita Kumari Panigrahy   |   |  |
| 5. | Subhrajit Pradhan, Bijayananda Patnaik, Rashmita Kumari Panigrahy | Semiconductor Laser Modulation Response by using optisystem.  | IJETvol.3,No.5,pp113-116,May-2016                      |
| 6. | Subhrajit Pradhan, Bijayananda Patnaik, Rashmita Kumari Panigrahy | Qualitative Analysis ofSPM &performance Analysis of FWM in commercial optical fiberusing optisystem., | IJET,vol.3,no.5,pp-130-135,May 2016                    |
| 7. | S. Pradhan, R. K. Panigrahy,B. Patnaik                            | Electrical Equalization in optical Fibers to compensate for IST.                                      | IJET,vol.6,issue.4,pp-667-671, April 2016.             |
| 8. | R.K.Panigrahy   | A Neural network modeling approach to circuit optimization & Satellite design                         | Advance science Letter ,vol.22,no2,pp555-556, Feb.2016 |

12. Research Guidance (1<sup>st</sup> January 2016 to 31<sup>st</sup> December 2020):

| Sl. No. | Name of the Scholar | Funding Agency | Title   |
|---------|---------------------|----------------|---|
| 1.      | Rati Ranjan Sabat   |                | “DESIGN AND SIMULATION OF HYBRIDPHOTOVOLTAIC SYSTEMS FOR PERFORMANCE IMPROVEMENT USING MAXIMUM POWER POINT TRACKING AND PERTURB AND OBSERVE METHOD” |
| 2.      | Subhrajit Pradhan   |                | Long Haul Optical Communication System Design and Analysis  |

13. Participation in Seminars/Conferences (1<sup>st</sup> January 2016 to 31<sup>st</sup> December 2020):

| Sl. No. | Programme attended (National/International)                   | Venue and Duration  | Title of the Paper Presented   |
|---------|---|---|--|
| 1.      | National seminar on (NSCTPP-2017)                             | Dept.of Physics,Berhampur University,Berhampur,odisha on 11-12 FEB.-2017. | Capacitance modeling of organic Thin Film Transistor                         |
| 2.      | National seminar on NCAEM                                     | Dept.ofPhysics Berhampur University,Berhampur,odisha on 23-24 July 2016.  | Nano sealing Material and devices for New generation Optical communication . |
| 3.      | National seminar on Nano material & Nano composite(NMAC-2016) | KIIT Univ.,BBSR on 29-30 Jan.2016   | Attend   |

14. Invited Talks/Visiting Assignments:
  
15. Academic Assignments:
  - (1) PG Admission 2016-2020
  - (2) Assistant Superintendent, Kolab Ladies Hostel (2017-2019),
  - (3) Programme Officer NSS unit
  - (4) Examination Duty
  - (5) Syllabus modification 2020
  
16. Role in Academic Administration and Decision-making Bodies:
  - (1) Coordinator in the Dept. Of Electronic Science
  - (2) Member of Research committee since 2016
  - (3) Member of Board of Studies in Electronic Science
  - (3) NSS Program officer
  - (4) Member of Athletic Association Berhampur University
  - (5) Member of sexual harassment shell
  - (6) Member of Research committee since 2016
  
17. Any other important information: Workshop/Refresher Course/ Faculty Development Programme
  - (1) UGC Sponsored Refresher Course in Environmental Studies by Utkal University, Bhubaneswar. 3rd -16th January 2020.
  - (2) Sensitization Workshop for Women Scientists, Berhampur University, 14<sup>th</sup> December, 2019.
  - (3) Research Methodology Workshop under World Bank Funded OHEPEE, Berhampur University, 12<sup>th</sup> - 16<sup>th</sup> February 2019.
  - (4) One Week Faculty Development Programme on "Advanced Nanomaterials & Their Engineering Applications (AdvNano-2020)" from 3rd to 8th Aug, 2020 organized by Department of Mechanical Engineering, GMR Institute of Technology, Rajam, A.P.