



JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Electrical&Electronics Engineering.



FACULTY PROFILE

1. Personal Details

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|------------------------------|--|---|--|
| NAME | Dr. Sanjiba Kumar Bisoyi |  | |
| DEPARTMENT | Electrical& Electronics Engineering | | |
| DESIGNATION | HoD EEE, Associate Professor | | |
| PHONE | 9891021959 | | |
| EMAIL ID | sanjibabisoyi.eed@jssaten.ac.in | | |
| Date of Joining (JSSATEN) | 1st October 2003 | | |

2. Experience

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|---------------------------------|-------------------|-------------|--------------------|
| Total Experience in Years 28 | Teaching: 20Years | Industry: 8 | Research: 15 Years |
|---------------------------------|-------------------|-------------|--------------------|

3. Qualifications

| COURSES | SPECIALIZATION | Year of Award | INSTITUTION | UNIVERSITY |
|---------|------------------------|---------------|--------------------------------|---------------------|
| B.E. | Electrical Engineering | 1992 | Institution of Engineers India | IE (India) Calcutta |
| M.E. | Power Electronics | 2004 | SATI Vidisha | RGPV Bhopal |
| Ph.D. | Electrical Engineering | 2015 | NIT Hamirpur | NIT Hamirpur (H.P) |

4. Research & Publications

| | | |
|---|----|--|
| Papers Published in Web of Science indexed Journals | 03 | |
| Papers Published in SCOPUS indexed Journals | 04 | |
| Papers Published in other Journals | 03 | |
| Papers Presented in | 20 | |

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|---------------------------------|--|--|
| Conferences / Symposium | | |
| Books / Book chapters Published | | 5 Name of the book: Technology, Intelligent sustainable system Publisher: Springer Year of Publication: 2021,2022 |

5. Research Guidance

| | | |
|------------------------------------|------------------------------------|---|
| PhD Guide? Give field & University | NIL | NIL |
| PhDs / Projects Guided | Ph.D. Awarded: NIL Guiding: NIL | Projects at Master's Level: NIL Projects at Bachelor's Level: 40 |

6. Grants

i. Funds Received (Projects)

| Project Name | Grant Amount | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|-----------------------------------|--------------|-----------------------------|----------|--|
| VRPS | 3.25Lahs | August 2017 | 2Years | APJAKTU Lucknow |
| MODROB | 4.5lakhs | Sept 2018 | 2Years | AICTE |
| IOT Based Solar Monitoring System | 1.39 lakhs | Oct 2020 | 2 Years | Emerson Electric |
| AICTE IDEA LAB | 1.1crores | June 2021 | 2 Years | AICTE |

ii. Patents

| Sl. No. | Title Details | Details of award of patent / Filed |
|---------|---|--|
| 1. | "Printed Circuit Board (PCB) prototyping using Layout Aware Probing | Application No:202011033134 Published |

iii. Consultancy

| Title of the work | Amount in Rs. | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|-------------------|---------------|-----------------------------|----------|--|
| - | - | - | - | - |

7. Awards Received

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| Awards “Best Paper Award” | "Reduced Switch Quadruple Boost Switched-Capacitor based Multilevel Inverter" “3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies (ICEPE 2020)” (Technically cosponsored by IEEE Industry Applications Society and IEEE Kolkata Section) organized by National Institute of Technology Meghalaya, Shillong, India during 05-07th March 2021. |
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8. Publications

i. International Journals

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Journal | Volume No. Issue No. Year | WOS / Scopus / Both | Impact Factor | Publisher |
|---------|---|---|---|-------------------------------------|---------------------|---------------|-----------|
| 1 | Multilevel Cascaded Inverters having Improved Output Level with Reduced Power Switches - A Novel Approach. | Sanjiba Kumar Bisoyi etl | GIJET | 2022, Vol. 8 Issue 1, p542-551. 10p | Scopus | | |
| 2 | Competency Based Education and Continuous Assessment in Laboratory to acquire higher order learning levels: Challenges, Process and Outcomes. | Sanjiba Kumar Bisoyi etl | Journal of Engineering Education Transformations (JEET) | Vol. 35, p187-193. 7p. | Scopus | 0.21 | |
| 3 | The novel evaluation scheme for Competency Based Learning, authentic assessment and its implementation strategies for universities of higher education. | Sanjiba Kumar Bisoyi et al. | Journal of Engineering Education Transformations (JEET) | Vol. 36, p225-228. 4p | Scopus | 0.21 | |
| 4 | "A review of the state of the art of generators and power electronics converter topologies for wind energy conversion System" | Sanjiba Kumar Bisoyi, R K Jarial, R A Gupta | IJETAE | vol 3 ,feb 2013. | | | |

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|---|---|---|---|--|--|--|--|
| 5 | Modelling and control of variable speed wind turbine equipped with PMSG | Sanjiba Kumar Bisoyi, R K Jarial, R A Gupta | IJETCAS | IJETCAS.6 (1) Sep- Nov, 2013.pp 56-62 | | | |
| 6 | “Modelling and analysis of variable speed wind turbine equipped with PMSG | Sanjiba Kumar Bisoyi, R K Jarial, R A Gupta | ” IJCET. Accepted on 10 January 2014, Available online 01 February 2014pp 421- 426. | | | | |

ii. National Journals

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Journal | Volume No. Issue No. Year | WOS / Scopus / Both | Impact Factor | Publisher |
|---------|--------------------|----------------------|---------------------|---------------------------|---------------------|---------------|-----------|
| | | | | | | | |

iii. Conferences

| Sl.No | Title of the paper | Name(s) of Author(s) | Name of the Conference | Volume No. Issue No. Year | WO S / Scop us | Imp act Fact or | Publis her |
|-------|---|---|--|---------------------------|----------------|-----------------|-------------|
| 1 | ”Power quality issues in grid connected PMSG based wind energy conversion system”2 012), | Sanjiba Kumar Bisoyi, R K Jarial, R A Gupta | 3rd national conference on power electronics and intelligent control(NCPE IC | NOV 2012 | | | MNIT Jaipur |
| 2 | “A review of the state of the art of generators and power electronics converter topologies for wind energy conversion | Sanjiba Kumar Bisoyi, R K Jarial, R A Gupta | ICERTSD | Feb. 2013. | | | |

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| 3 | ”Modelling and analysis of variable speed wind turbine equipped with PMSG” | Sanjiba Kumar Bisoyi, R K Jarial, R A Gupta | International Conference on Advances in Mechanical Sciences | 9-11 january,2014.p p488-493. | | | |
| 4 | “Analysis of course outcomes of PE-A tool for Assessment of Programme outcomes | Sanjiba Kumar Bisoyi, Parveen.P.Terang, V. K. Chandna | IEEE International conference on MOOCs Innovation and technology in Education | IEEEMITE-2015 october 1-2,2015 Amritsar, India. Object identifier 978-1-4673-6746-2/15/\$31.00_c 2015 IEEE., 2015 | | | |
| 5 | “Weightage factor analysis between program me outcomes and Course Outcomes | PPT, Sanjiba Kumar Bisoyi, V.K.Chandna | IEEE International conference on MOOCs Innovation and technology in Education I | EEE MITE-2015 october 1-2,2015 Amritsar, India. Object identifier 978-1-4673-6746-2/15/\$31.00_c 2015 IEEE. | | | |
| 6 | "SHE PWM technique for three phase three levelvoltage source inverter. | S. K. Bisoyi and N. K. Agarwal | 2017 IEEE Int.Conf. on Pow. Control Signals and Instrumentation Eng. (ICPCSI), | ", pp. 1742-1746, 2017. | | | |
| 7 | Performance Study Of Static Kramer Drive" | Sanjiba Kumar Bisoyi, | IEEE Conference INDIACOM 2018. | ISSN 0973-7529; ISBN 978-93-80544-28-1 | | | |
| 8 | "Control techniques analysis to find effectiveness of suppressing output voltage total harmonic distortion for fuzzy based single- phase | Sanjiba Kumar Bisoyi, Sampath Kumar V and Veerendra Kumar A.N | " International Conference on Intelligent Control and Computation for Smart Energy and Mechatronic Systems nt | 25-26 September 2020 JSSATE NOIDA INDIA | | | |
| 9 | ’Protection of 3-phase Induction motor under 1phase fault”, | Abhinav Saxena, Sanjiba Kumar Bisoyi, prashant,’ | International conference on Advances in business and Engineering for sustainability ABES, Ghaziabad, | 27-28 march 2018 | | | |

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| 10 | "Reduced Switch Quadruple Boost Switched-Capacitor based Multilevel Inverter" | Kaibalya Prasad Panda, Narendra Babu P, Sanjiba Kumar Bisoyi and Gayadhar Panda | (ICEPE 2020)" organized by National Institute of Technology Meghalaya, Shillong, India | 05-07th March 2021.digital identifier 978-0-7881-3267-9/21/IEEE. | | | |
| 11 | Intermixed Generalized Integrator based Grid- Friendly Inverter Control for Power Quality Enrichment in Micro grid System | Narendra Babu P, Ritula Thakur, Sanjiba Kumar Bisoyi, Rangababu Peesapati, Gayadhar Panda | (ICEPE 2020)" organized by National Institute of Technology Meghalaya, Shillong, India. | during 05-07th March 2021.digital identifier 978-0-7881-3267-9/21/\$31.00 ©2021 IEEE | | | |

| Sl. No. | Name of the workshop / Conference | Organizer | Date |
|---------|---|-----------|---------------------------------------|
| 1 | IEEE International conference on MOOCs Innovation and technology in Education IEEE MITE- &Presented Research paper "Analysis of course outcomes of PE-A tool for Assessment of Programme Outcomes". | IEEE | 2015October 1-2, 2015 Amritsar, India |

iv. Workshops / Conference (Organized)

| Sl. No. | Name of the workshop / Conference | Organized by | Date | Role |
|---------|---|--------------------------------------|---|----------------------|
| 1 | Organized Two days National Seminar on "Recent Trends & Development in Electrical Engineering" 23 & 24th Aug., 2013.JSSATE, Noida | Department of Electrical Engineering | 23-24 Aug 2013 | Co convener |
| 2 | Two days National conference on "Smart Energy systems"NCSES- 2019. | JSSATE, Noida | 14 & 15th June, 2019. at | Organizing Secretary |
| 3 | Internal Hackathon for Smart India Hackathon2020-Software Edition on | JSSATE, Noida | 21st Jan,2020 | Convener |
| 4 | Atal FDP on Industry 4.0 Skill Development using AICTE IDEA LAB | JSSATE, Noida | 20 th -25 th Nov 2023 | Coordinator |
| 5 | Indo-French Seminar on Emerging Trends and Innovations in Power Electronics Converters | JSSATE, Noida | 17th – 21st Nov 2025 | Coordinator |

vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

| Sl. No. | Name of the workshop / Conference | Organizer | Date |
|---------|--|--|------------------------------|
| 1 | Online Faculty Development Programme on "Power Quality and Reactive Power Management", | organized by the Department of Electrical Engineering, Delhi Technological University, Delhi in association with Clariant Power System Ltd., Pune, | during 06th - 10th July 2020 |

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| 2 | Webinar on Effective usages of Educational Technology in Teaching Learning Process as a part of NBA Accreditation organized | Department of Computer Science & Engineering, Electronics and Communication Engineering and Medical Electronics Engineering in association with IQAC- MSRIT under Margdarsan Scheme | sponsored by AICTE from 22nd June to 26 June 2020 |
| 3 | International Faculty Development Program in online mode on “Digital Learning with Multidisciplinary Approaches (DLMA)” | , conducted at JSS Academy of Technical Education, Noida organized by the Department of Computer Applications | held from 12 - 17 June, 2020 |
| 4 | Two Days International Webinar on "Real Time Modeling & Control of Energy Systems and Devices" | organized by Department of Electrical and Electronics Engineering, JSS Academy of Technical Education, NOIDA | held on 11th & 12th June, 2020, |
| 5 | One week Online Short-Term Training Program on “Life Cycle Analysis for Sustainability” | Organized by Department of Mechanical Engineering, Engineering College, Bikaner | from 27 - 31 May, 2020 under TEQIP-III. |
| 6 | Faculty Development Programme on “Recent Advances in Power Electronics Applications with MATLAB Simulations” | organized by Department of Electrical Engineering, NIT Patna under Electronics and ICT Academy, NIT Patna, under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India | held from 25–30 May, 2020 in online mode |
| 7 | Three days International Webinar on “Qualitative Research Blogs writing and Neuroscience in outbreak of COVID-19 | conducted by JSS Academy of Technical Education Noida organized | held from 20 - 22 May, 2020 |
| | | by the Department of Computer Applications. | |
| 8 | Participated AICTE recognized short termcourse on “Sustainable Environmental management through | ICT conducted by Civil Engineering Department of NITTR (One Week) at JSS Academy of Technical Education Noida UP | from 25/04/2016 to 29/04/2016 |
| 9 | Participated AICTE recognized short termcourse on “Operation Research through ICT. | conducted by Applied Science Department of NITTR (One Week) at JSS Academy of Technical Education Noida UP | from 28/03/2016 to 01/04/2016 |
| 10 | Participated AICTE recognized short termcourse on “Sustainable Environmental management through ICT. | conducted by Civil Engineering Department of NITTR (One Week) at JSS Academy of Technical Education Noida UP | from 14/03/2016 to 18/03/2016 |
| 11 | Participated AICTE recognized short termcourse on “Operation Research through ICT. | conducted by Applied Science Department of NITTR (One Week) at JSS Academy of Technical Education Noida UP | from 28/03/2016 to 01/04/2016 |

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| 12 | Participated AICTE recognized short termcourse on “Sustainable Environmental management through ICT. | conducted by Civil Engineering Department of NITTR (One Week) at JSS Academy of Technical Education Noida UP | from 14/03/2016 to 18/03/2016 |
| 13 | Participated AICTE recognized short termcourse on “Effective curriculumImplementation” through ICT | conducted by Curriculum Development Centre of NITTR ne Week) at JSS Academy of Technical Education Noida UP | from 07/03/2016 to 11/03/2016 (O |
| 14 | Presented Research paper “Analysis of course outcomes of PE-A tool for Assessment of Programme Outcomes”. | IEEEInternational conference on MOOCs Innovation and technology in Education IEEE MITE- | 2015october 1-2, 2015 Amritsar, India |
| 15 | Participated in the Engineering Education and research seminar | at gurgaon on organized by National Instruments India | 30th July 2015 |
| 16 | NBA workshop for Experts/Evaluators/Stake holders | one day (webinar) and Three days from 17th - 19th October 2013, personal Training organized by Nodal/training centre JSSATE Noida in association with National Board of Accreditation(NBA) New Delhi | on 25th September 2013 |
| 17 | Two day National Seminar on “Recent Trends & Development in Electrical Engineering | JSSATENoida | ” 23rd & 24th Aug.2013. |
| 18 | Attended National seminar on Future of Electric power sector issues and challenges | organized by Galgotia college of Engg & technology greater Noida. | during 16th march 2013 |
| 19 | One Week STC “Applications of Solar Energy & Photovoltaic’s” | IIT Delhi. | 12-18th December, 2012. |
| 20 | Two day R&D Conclave-2012, Emerging Opportunities & Challenges in R&D for Indian Power Sector, | Organized by CPRI & CEA on.New Delhi. | 19&20th Oct.,2012 |
| 21 | Attended complimentaryseminar on MATLAB/SIMULINK for Engineering Education | at Ghaziabad | held during 5th October 2012 |
| 22 | One day Workshop on “Embedded Systems” | Organized by ECE Department & Pearson,.at JSSATENoida | Sep.2012 |
| 23 | Participated in National workshop on Development and use of NPTEL courses under the banner of nationalprogramme on technology enhanced learning (NPTEL) the workshop was | organized by IIT Kanpur in collaboration with JSSATE Noida held | during 30th -31st October 2010 |
| 24 | Attended the MHRD/AICTE sponsored summer school “Application of MATLAB, Orcad/Spicesimulation tools in engineering MOS 2008. | organized by Department of electricalEngineering NIT Hamirpur (HP) | 30th July -11th July 2008 |

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|----|---|---|------------------------------|
| 25 | Participated Two days IEEE workshop on “Application of Power Electronics to Electric Utilities and Motor control, jointly | organized by IEEE PES- IAS Delhi chapter and Electrical Engineering Department of IIT Delhi | during 29th -30th march 2005 |
|----|---|---|------------------------------|

9. Details of NPTEL / COURSERA courses completed:

| Sl. No. | Name of the subject | Organized by | Date of completion / Award | Grade / Marks |
|---------|---------------------|--------------|----------------------------|---------------|
| 1 | | | | |

10. Membership of Professional Bodies:

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| 1. Life Membership in Indian Society for Technical Education (MISTE)- LM44012 |
| 2. MIE M131046-6 |
| 3. IEEE 93360039 |

11. Any other information you will like to share about your professional experience

Dr. Sanjiba Kumar
 Bisoyi Associate
 Professor,
 Department of Electrical & Electronics Engineering
 JSS Academy of Technical Education, Noida

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