THE UNIVERSITY OF BURDWAN

Extracts from the minutes of the meeting of the Executive Council held on 07.09.2022

Item No.-164 (Any Other Matter) Resolution

The Council ratified the action taken by the Hon'ble Vice Chancellor, B.U. wherein approving the draft order of appointment submitted by Prof. Sourangshu Mukhopadhyay, 'the then' Director, Centre for Distance and Online Education (CDOE), The University of Burdwan for appointing Dr. Swapan Bhattacharyya as the Director, CDOE, The University of Burdwan in line with the earlier resolution of the Council in its meeting held on 27.04.2022 (item no. 543). Accordingly, the order of appointment issued by Prof. Sourangshu Mukhopadhyay, 'the then' Director, CDOE, The University of Burdwan appointing Dr. Swapan Bhattacharyya as the Director, CDOE, The University of Burdwan vide no. CDOE/Sectt./Recruitment of Dir./230/2021-22/205 dated 06.05.2022 was approved. In this perspective, the Council noted that Dr. Swapan Bhattacharyya has joined as the Director, CDOE, The University of Burdwan on and from 06.05.2022.

Draft for Approval

Registrar & Secretary Executive Council

Executive Council



THE UNIVERSITY OF BURDWAN CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)

Erstwhile Directorate of Correspondence Courses/Directorate of Distance Education Golapbag, Burdwan, West Bengal – 713104

No. CDOE/Sectt./Recruitment of Dir./230/2021-22/205

Date: 06.05.2022

ORDER

Dr. Swapan Bhattacharyya is appointed Director, Centre for Distance and Online Education (CDOE) under The University of Burdwan on Full time regular basis with effect from the date he joins the post.

His salary will be as per UGC guideline for the post of Professor.

He will be on probation for a period of one year from the date of joining.

His service under Centre for Distance and Online Education under The University of Burdwan will be governed by the Rules relating to the Conditions and Conduct of Services (Rules of Discipline) of the staff of the Centre for Distance and Online Education (erstwhile Directorate of Distance Education) under B.U. as recommended by Advisory Committee of CDOE and approved by the Executive Council and as are in force & as may be prescribed and amended from time to time.

By order of the Executive Council

(Sourangshu Mukhopadhyay)

Director

No. CDOE/Sectt./Recruitment of Dir./230/2021-22/205/1(100)

Date: 06.05.2022

Copy forwarded for information and necessary action to:

- 1. The Registrar, B.U.
- The Finance Officer, B.U.
- The Asst. Director (A&E) & Asst. Director (A&A), CDOE under B.U.
- 4. Office of the Vice Chancellor/ P.A to Pro-Vice Chancellor.
- Controller of Examinations, B.U.
- 6. Asst. Registrar-I/Sr. Supdt., Constitution & Election unit, Registrar's Dept. B.U.
- System Manager, Computer Centre, B.U.
- 8. All the HODs of teaching dept., B.U
- 9. All the Officers of B.U.
- 10. All Study Centre in-Charge, CDOE, B.U.

Director



THE UNIVERSITY OF BURDWAN CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)

Erstwhile Directorate of Correspondence Courses/Directorate of Distance Education Golaphag, Burdwan, West Bengal – 713104

No. CDOE/Sectt./Recruitment of Dir./230/2021-22/203

Date: 02.05.2022

To

Dr. Swapan Bhattecharyya 99, Boral Main Road Attabagan More, Garia, Kolkata-700084

Sir,

With reference to your application for the post of Director, [on permanent, Full time regular basis] of the Centre for Distance and Online Education (CDOE) under this University, I am to inform you that you have been selected for appointment to the post on the following terms and conditions:-

- You shall be treated as on probation period in the first instance, for a period of one year from the date of joining in the service.
- Your salary will be as per UGC-(Distance Education Bureau) guideline for the post of Professor. No other allowances are admissible.
- You shall have to reside at Burdwan. The CDOE, B.U. may not, however, be in a position to provide residential accommodation at present.
- The formal letter of appointment will be issued on production of original certificates/mark sheets relating to your academic attainments, as well as date of birth.
- 5. Your services under the CDOE under B.U. will be governed by the terms of contract of the bond.
- 6. You will have to execute an Agreement/ Bond of Contract in the prescribed manner.
- You shall have to obtain your release from your present position/employer, if any, in order to join this University within one month, if possible, from the date of receipt of the appointment letter.

I am to request you please intimate the undersigned within ten days from the date of receipt of this letter whether the offer is acceptable to you on the above terms and conditions. On receipt of your letter of acceptance and on verification of the documents i.e. on fulfillment of condition under clause (4) above, formal letter of appointment will be issued.

Yours faithfully,

(Sourangshu Mukhopadhyay)

Director

Date: 02.05.2022

No. CDOE/Sectt /Recruitment of Dir./230/2021-22/203/1(50)

Copy forwarded for information and necessary action to:

- The Registrar, B.U.
- 2. The Finance Officer, B.U.
- The Asst. Director (A&E) & Asst. Director (A&A), CDOE under B.U.
- 4. Office of the Vice Chancellor/ P.A to Pro-Vice Chancellor.
- 5. Controller of Examinations, B.U.
- Asst. Registrar-I/Sr. Supdt., Constitution & Election unit, Registrar's Dept. B.U.
- System Manager, Computer Centre, B.U.
- 8. All the HODs of teaching dept., B.U.
- 9. All the Officers of B.U.

W/ST-OF-LOW

Director



The University of Burdwan Centre for Distance and Online Education

To The Director, CDOE, The University of Burdwan Burdwan- 713104

Date: 06-05-2022

(Director)

Yours faithfully,

Swapan Para Tachangan (Signature in full)

SWAPAN BHAT TACHARYYA

Name in full: (In Block Letter)

WHITERSIEF OF CASCONIA



This is to certify that

- Twafian Bhatlacharyya

obtained the degree of Bottor of Philosophy (Technology) in Radio Physics and Electronics in this University in the year 2014.

Senate House, The 28th November, 2014

CS Scanned with CamScanner Sulerjan Das Vice-Chancellos.

Swapan Bhattacharvya

Name: Swapan Bhattacharyya

Date of Birth: 3rd December 1960

Profile:

Educational Background:

- Ph. D. Jan 2014, (Institute of Radio Physics & Electronics) Calcutta University
- Integrated M. Tech. (B. Tech & M. Tech) (Institute of Radio Physics & Electronics), 1987 - Calcutta University
- B. Sc. (Physics Hons.), 1982 Calcutta University

Experience:

Industry: 16 Yrs.

Joined in a **TATA Group** of Company at Jamshedpur in 1988, In 10 years was consecutively promoted to Branch Manager – Jamshedpur. In 2000 was transferred to **Mumbai** – **Head Office** as **Corporate Manager** for rest of my Industrial carrier

Academic: 18 Yrs.

- Joined Asansol Engineering College, Asansol in May 2004 as Manager Systems
- From December 2004 to May 2010 was Assistant Professor and Head of the Department of Computer Science & Engineering and the Department of Information Technology at Asansol Engineering College, Asansol
- From May 2010 to July 2012 was Professor and Head of the Department of Computer Science & Engineering (UG - NBA Accredited) and the Department of Information Technology at Asansol Engineering College, Asansol
- Joined Modern Institute of Engineering and Technology, Bandel in July 2012 as Professor in the Department of Computer Science & Engineering
- From November 2012 to Jun 2013, acting as Vice Principal at Modern Institute of Engineering and Technology, Bandel
- From June 2013 to May 2014, as Principal at Greater Kolkata College of Engineering & Management, Baruipur
- From May 2014 to September 2014, as Principal at Camellia Institute of Technology and Management, Hooghly
- Joined JIS College of Engineering (An Autonomous, NAAC Grade "A" Institution), Nadia in October 2014 as Professor & HOD, Department of Electronics & Communication Engineering (UG & PG NBA Accredited), in June 2016 given additional responsibility as Dean of Students' Affairs
- Have been transferred to Dr. Sudhir Chandra Sur Degree Engineering College (A JIS Group of Institution), Dumdum, Kolkata in July 2018
- Joined Siliguri Institute of Technology, Siliguri in October 2019 as Professor & HOD, Department of Electronics & Communication Engineering (NBA Accredited) with an additional responsibility as Mentor of Department of Computer Science & Engineering and Department of Information Technology.
- From December 2019 as Principal-in-charge, Siliguri Institute of Technology
- From November 2020 to August 2021as Principal, Siliguri Institute of Technology (College Code: 119)
- Joined The Centre for Distance and Online Education (CDOE) as Director, The University of Burdwan in May 2022



Research Interest: 17 Yrs.

Nanotechnology, Semiconductor Nanostructure, Quantum Computing

Project: 1

Title: Removal of old Oscilloscope with featured Multifunction Oscilloscope for Communication Engineering Laboratory funded under **MODROBS** Scheme Fund Value: 8.5 L

Publications:

Patent Published: 1

Patent Title: An Arrangement for Disabled User for Computer Interaction File Number: 180/KOL/2015A, Date: 13.03.2015 International Classification: G06F3/01

Patent Published: 2

Patent Title: A System for Providing Cardiovascular Disorder Diagnostic Services

File Number: 201631008555 A, Date: 08.04.2016

International Classification: H04L12/28

Patent Published: 3

Patent Title: Wireless Detachable Bluetooth Microphone Speaker

File Number: 201731011727 A, Date: 21.04.2017

International Classification: H04R1/08

File Number: 180/KOL/2015A

International Classification: G06F3/01

Patent Published: 4

Patent Title: Digital Voting Machine (DVM)with Biometric Verification System

with Instant Counting Facility

File Number: 201931005971, Date: 15.02.2019

No. Of Pages: 50 No of Claims: 10

International Classification: G07C13/00

Patent Published: 5

Patent Title: A Car Ignition System Based On Application Controlled

Biometric Sensor

File Number: 202031031645 A, Date: 24.07.2020

No. Of Pages: 30 No of Claims: 7

International Classification: B60R/023; F02D 11/22; F02N 11/08

National / International:

Patent: 5Project: 3Book: 1

Journal Paper: 18
 Book Chapter: 10

International Conference Paper: 45
 National Conference Paper: 41

Achievements:

- The Department of Electronics & Communication Engineering (UG), JISCE has been accredited NBA (Tier 1, Under Autonomous Framework) (National Board of Accreditation) in October 2017 under my guidance
- The JIS College of Engineering Re-Awarded Status as Autonomous Institution (Tier 1) in 2017
- The JIS College of Engineering received NAAC 'A' Accreditation in 2014
- The Department of Computer Science & Engineering has been accredited NBA (National Board of Accreditation) in August 2007 under my guidance
- The Department of Computer Science & Engineering (UG), AEC has been Reaccredited NBA - (Tier - II) (National Board of Accreditation) in October 2008 under my guidance

- Received Letter of appreciation from the Executive Director of TATA Group of Company for my devotion & commitment to the company's corporate clients - Sept 23rd 1994
- Received an Appreciation letter from Sr. General Manager for my dedicated efforts to make the S/5000 Mini System operational which got extremely damaged on July 20th 1989, due to heavy thundering

Awards & Honours:

- National Scholarship in 1982 from Govt. Of India
- Internal Auditor of ISO 9000:2000 (No: W 106 2367)

Projects Implemented:

- MODROBS An AICTE on-going Project, JIS College of Engineering
- > TEQIP Project in the Department of ECE, IIS College of Engineering
- > TEQIP Project in the Department of CSE & IT, Asansol Engineering College
- Campus Wide Networking planned, design and implemented at Asansol Engineering College
- Six crore Project on Banking Automation in Central Bank of India (All India Level) – 2003
- Five crore Project on Installation of Servers & Computers, Implementation of Novell Networking at Dena Bank (All India Level) – 2002

Membership:

- > Member IEEE, IEEE Photonics Society (No: 80640624)
- Life Member Indian Science Congress Association (No: L20326)
- Life Member Institution of Engineers (India)
- > Life Member FOSET

Laboratory Developed/ Modernised:

- Communication Laboratory JISCE (Under MODROBS 8.5L)
- VLSI Laboratory JISCE
- Microwave Laboratory JISCE
- Basic Electronics Laboratory JISCE
- Power System Laboratory I GKCEM
- Power System Laboratory II GKCEM
- Electrical Machine Laboratory I GKCEM
- Electrical Machine Laboratory II GKCEM
- Web Technology Laboratory AEC
- R & D Laboratory AEC
- Advanced Project Laboratory (IT) AEC
- Thin Client Internet Laboratory AEC
- Multimedia Laboratory AEC
- Basic Computer Laboratory I AEC
- Basic Computer Laboratory II AEC

Visiting / Guest Faculty:

- Institute of Radio Physics & Electronics, Calcutta University 2013, 2014, 2015, 2016
- > ICFAI National College, Asansol

Member of Advisory Committee:

- Member of the Governing Body (BOG Member) of Siliguri Institute of Technology from February 06, 2020.
- Member of the Governing Body (BOG Member) of Dr. Sudhir Chandra Sur Degree Engineering College from March 22, 2019.
- Advisor in Selection Committee of Public Service Commission West Bengal (Govt. Of WB) 29,30th November, 1st December 2017 for the purpose of selection of candidates for recruitment to the Post of Asst. Professors of Electronics & Instrumentation Engineering in Govt. Engineering & Technology Colleges under the Higher Education Department, Govt. Of West Bengal in the West Bengal General Service.

- > Member of Technical Committee in International Conference in Three-day International Conference on "Computational Science & Engineering - ICCSE -2016" December 04 - 06th 2016 at RCC Institute of Information Technology, West Bengal.
- > Member of National Advisory Committee in Two-day National Conference on "Frontline Research in Computer, Communication and Device - 2015" December 29 - 30th 2015 at RCC Institute of Information Technology, West Bengal.

Reviewer:

- Reviewer of Scientific Direct, USA
- Reviewer of two conference papers in IGI Global
- Reviewer of six conference papers in I3SET 2016 (Springer LNSS)
- Reviewer for the Transactions on Microwave Theory and Techniques
- Reviewer for CSNT 2016 IEEE

 - (218) Xiaoju Yang. "Fault Diagnosis Based on Rough Set Theory"
 (217) Lulu Liao. "Design and Implementation of the Enterprise Instant Message System based on Restful Services"
- Reviewer for Journal Applied Physics A
 - . "Effect of temperature on avalanche region width and DC to RF conversion efficiency of the p+nn-n+ 4H-SIC impact avalanche transit time diodes" Ref - APYA-D-16-00059

Inspector:

- One of the Judges of the Judgment Team "Smart India Hackathon 2018", Kolkata - March 30 - 31, 2018, Organized by AICTE, MHRD Govt. Of India.
- One of the Members of the Inspection Team West Bengal State Council of Technical Education for "The New Horizon of Technology - Durgapur" - July 9,

Examiner:

- > Ph. D Thesis Examiner for the Thesis entitled "Control System Based Modeling and Simulation Technique for ECG Signal" submitted by Mr. Soumyendu Bhattacharjee of Maulana Abul Kalam Azad University of Technology, West Bengal for the subject ECE under the supervision of Dr. Biswarup Neogl, nominated by the Hon'ble Vice Chancellor of Maulana Abul Kalam Azad University of Technology, West Bengal, September 17, 2020
- > One of the Member of External Examiner at RCC College of Engineering, Beliaghata, India for Practical / Sessional End Semester (UG + PG) MAKAUT Examination, May 21, 2019
- > One of the Members for Moderation of question paper of Public Service Commission - West Bengal (Govt. Of WB), 15th February 2019 for the purpose of Moderation of question paper for selection of candidates for recruitment to the Post of Lecturer (Polytechnics) of Electronics & Instrumentation Engineering in Govt. Engineering & Technology Colleges under the Higher Education Department, Govt. Of West Bengal in the West Bengal General Service.
- One of the Members for setting the question paper and answer of Public Service Commission - West Bengal (Govt. Of WB), 4th February 2019 for the purpose of setting question paper and answer for selection of candidates for recruitment to the Post of Lecturer (Polytechnics) of Electronics & Instrumentation Engineering in Govt. Engineering & Technology Colleges under the Higher Education Department, Govt. Of West Bengal in the West Bengal General Service.
- Head Examiner of B. Tech (ECE), M. Tech (ECE), JIS College of Engineering (A Autonomous Institution) - Even Semester 2018
- Head Examiner of B. Tech (ECE), M. Tech (ECE), JIS College of Engineering (A Autonomous Institution) - Odd Semester 2017
- One of the Members in Selection Committee of Public Service Commission -West Bengal (Govt. Of WB) 29 - 30th November, 1st December 2017 for the purpose of selection of candidates for recruitment to the Post of Asst. Professors of Electronics & Instrumentation Engineering in Govt. Engineering & Technology Colleges under the Higher Education Department, Govt. Of West Bengal in the West Bengal General Service.

- Head Examiner of B. Tech (ECE), M. Tech (ECE), JIS College of Engineering (A Autonomous Institution) – Even Semester 2017
- Head Examiner of B. Tech (ECE), B. Tech (EIE), M. Tech (ECE), JIS College of Engineering - (A Autonomous Institution) - Odd Semester 2016
- Head Examiner of B. Tech (ECE), M. Tech (ECE), JIS College of Engineering (A Autonomous Institution) – Even Semester 2016
- One of the Members in Selection Committee of Public Service Commission West Bengal (Govt. Of WB) 23rd December 2015 for the purpose of selection of candidates for recruitment to the Post of Asst. Professors of Electronics & Communication Engineering in Govt. Engineering & Technology Colleges under the Higher Education Department, Govt. Of West Bengal in the West Bengal General Service.
- Head Examiner of B. Tech (ECE), M. Tech (ECE), JIS College of Engineering (A Autonomous Institution) – Odd Semester 2015
- External Examiner on Final Year Project & viva ECE Department at Dr. Sudhir Sur Degree Engineering College on May 20, 2015
- Examiner Optical Communication & Networking, (RP 3.2.3), B. Tech 6th Semester in Institute of Radio Physics & Electronics, Calcutta University - 2015
- Head Examiner of B. Tech (ECE), M. Tech (ECE), JIS College of Engineering (A Autonomous Institution) – Even Semester 2015
- Examiner Optical Communication & Networking, (RP 3.1.4), B. Tech 5th Semester in Institute of Radio Physics & Electronics, Calcutta University 2014
- Practical External Examiner Optical Communication, B. Tech Sth Semester (RP 3.1.17), Radio Physics & Electronics, Calcutta University - 2013
- Practical Examination Observer DOEACC O/A/B Levels Examination Mar 2012
- Examiner B.I.T. Sindri, Dhanbad Jharkhand 2011
 - Data Structure (CS 3101)
 - Software Engineering (CS 402)
- > Examiner B.I.T. Sindri, Dhanbad Jharkhand 2011
 - Data Structure (CS 3101)
 - Software Engineering (CS 402)
- > Examiner B.I.T. Sindri, Dhanbad Jharkhand 2011
 - Data Structure (CS 3101)
- ➤ Practical Examination Observer DOEACC O/A/B Levels Examination Mar 2011
- Examiner B.I.T. Sindri, Dhanbad Iharkhand 2010
 - 4 Software Engineering (CS 402)
- > Head Examiner of B. Tech., WBUT 2010
 - Introduction to Computing (CS 201)
 - Management Information System (IT 602)
 - Computer Network (CS 601)
 - Data Communication and Networking (IT 603)
 - Object Technology & UML (CS 605)
- > Practical Examination Observer DOEACC O/A/B Levels Examination 2009
- > Head Examiner of B. Tech., WBUT 2009
 - Introduction to Computing (CS 201)
 - Management Information System (IT 602).
 - Computer Network (CS 601)
 - Data Communication and Networking (IT 603)
 - Object Technology & UML (CS 605)
- > Head Examiner of B. Tech., WBUT 2008
 - Basic Electronics (ECE 101)
 - Analog Communication Theory (EI 511)
 - Logic Design (EC 312)
 - Digital Communication (EC 502)
- > Examiner BIT Sindhri, Jharkhand
 - Data Structure (4th Year 2008)
 - CCN (4th Year 2008)
 - Data Structure (3rd Semester 2008)
 - PPL (3rd Semester 2008)
- > Head Examiner of B. Tech., WBUT 2007
 - Digital Electronics (EC 101)
- > Examiner Bhagalpur College of Engineering Bhagalpur University 2007

Invited Talk:

- On "Ki Hotey Chai on the subject Electronics & Communication Engineering", Friday September 2018 from 7:30 pm to 8:30 pm, At Doordarshan Kendra Kolkata, 18/3 Uday Shankar Sarani, Golf Green, Kolkata – 700 095
- On "Processor Architecture and Modern Approaches on Acceleration" at Kanchrapara College on February 12 2016.
- A Talk on MATLAB 3 Days Workshop at Abacas College of Engineering and Management - July 2014
- Chief Guest at the 2 days Workshop "Hacktrack V2.0" at Dr. Sudhir Chandra Sur Degree Engineering College on 22 – 23rd February 2014
- On "Nanotechnology" at Asansol Engineering College on December 13, 2007
- Chair person & Key-note Speaker on "Environmental Management" at Asansol Engineering College on July 26th to 28th, 2007
- > On "Core Banking Solution" at Asansol Engineering College on March 29, 2007

Convener:

- Workshop "Two Days Workshop on Arduino Based Embedded Systems & Robotics With IOT" April 25-26, 2019
- Seminar on "Emerging Trends on IT", February 8th, 2019
- Seminar on "Recent Technological Advancement In Semiconductor Devices", October 11th, 2018
- Workshop on "Nanoelectronics and MATLAB based Simulation", October 28, 2017
- Seminar on "Importance of Cyber Security Education and Training", June 12th, 2007
- Seminar on "Computational Geometry", March 7th, 2007
- > Seminar on "Computer Vision", February 20th, 2007
- Seminar on "Mobile Ad-Hoc Network", February 2nd, 2007
- Seminar on "Web Information Retrieval", August 11th, 2006
- > Seminar on "Frontiers of Evolutionary Computation & Fuzzy Sets & Systems",
- > July 27th, 2006
- Seminar on "Image Processing & Pattern Recognition", June 23rd, 2006.
- Seminar on "Modern Trends in Mobile Communication & Computing", November 10th 2005

Session Chaired:

- In the Plenary Session "Advanced Optimization Techniques" by Prof. Sutanu Ghosh, Prof. Sayantani Ghosh and Prof. Aditya Chaudhuri, I3SET, Organized by IIS College of Engineering, Kalyani, West Bengal, from October 25th to 26th, 2016.
- At the topic "Strategy to Enhance your Employability" by Prof. Monotosh Choudhury- Head, HRD, Dept. HRD, Titagarh Power Plant – CESC Ltd in Five Day Orientation Programme, Organized by JIS College of Engineering, Kalyani, West Bengal, from August 3rd to 7th, 2015.
- At the topic "Photoemission from Nanostructured Materials by Prof. K P Ghatak, Dept. of Electronic Science, University of Calcutta" in Two Day International Workshop on "Photonics to Nanophotonics" Organized by IEEE Photonics Society Calcutta Chapter, at the Department of A K Choudhury School of IT, University of Calcutta, from June 12th to 13th, 2009.

Co-ordinator:

- One Day Workshop on "Faculty Awareness Programme on Excellence in Higher Education", Organized by the Siliguri Institute of Technology, Siliguri in Joint collaboration with National Assessment and Accreditation Council (NAAC), India, November 08, 2019 - The Speaker - Padma Shri (Dr.) Virander Singh Chauhan -The Executive Chairman NAAC.
- One Day "Farewell to our Final Year Student", Organised by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, Dum Dum, April 30, 2019.
- Two Days Workshop on "Arduino Based Embedded Systems & Robotics with IOT", by Mr. Soumyak Chandra - Sr. Lead, IoT Solutions of M/s. OGMA TechLab

- (India), at Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, Dum Dum, India.
- One Day Industrial Visit at "Airtel", Infinity Building, 7th Floor, Salt Lake for 2nd Year Students, April 13, 2019.
- Two Day Technical Project Competition "Impulse 2019", Tech Fest, Organised by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, March 30, 2019.
- One Day Industrial Visit at "Airtel", Infinity Building, 7th Floor, Salt Lake for 3th Year (Sec B) Students, February 16, 2019.
- One Day Seminar on "Emerging Trends on IT", Organised by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, Dum Dum, India, February 10, 2019.
- One Day Industrial Visit at "Airtel", Infinity Building, 7th Floor, Salt Lake for 3rd Year (Sec – A) Students, September 22, 2018.
- One day Seminar on "Recent Technological Advancements in Semiconductor Device: A Quantum World" Organized by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, October 11th, 2018, delivered by Prof. Arpan Deyasi, RCCIIT, Kolkata, India
- One day Seminar on "Recent Trends in Printed Antenna Research" Organized by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, August 24th, 2018, delivered by Prof. (Dr.) Jawed Y Siddique, Institute of Radio Physics & Electronics, University of Calcutta, India.
- Organized One day Workshop on "Latest Technological Trends in Green Building", Organized by The Department of Electronics & Communication Engineering, in Collaboration with Department of Electronics Engineering Kalyani, Nadia, West Bengal, in association with Ganapati Products, Silaris Energy Pvt. Ltd. January 24, 2018 (A MSME Programme).
- Chairman BOS Department of Electronics & Communication Engineering, JIS College of Engineering (A Autonomous Institution) For Odd 2014, 2015, 2016, 2017 & Even 2015, 2016, 2017 Semesters
- I3SET "International Conference on Industry Interactive Innovations in Science, Engineering & Technology" (I3SET - 2016), Organized by The JIS College of Engineering, Kalyani Nadia, West Bengal, India - 712121 in collaboration with TEQIP, Springer), October 25 - 26, 2016.
- Workshop on "Industrial Automation using PLC, SCADA & Drives" Organized by Department of Electrical Engineering and Department of Electronics & Communication Engineering, JIS College of Engineering, April 2nd, 2016.
- Co-Chairman of "Inter Engineering Academic Meet 2013" Organised by FOSET in association with Modern Institute of Engineering & Technology from 22nd to 23nd March 2013.
- Workshop on "Ethical Hacking" Organized by Asansol Engineering College in Collaboration with Jadavpur University from March 5th to 6th, 2011.
- Short Term Training Programme on "Soft Computing Techniques and Applications" Organized by Asansol Engineering College in Collaboration with NIT Durgapur & NIT Silchar from September 5th to 8th, 2006.

Workshop / Seminar / Training Attended:

- Two day Workshop on "NAAC & AA", Organized by The IQAE Siliguri Institute of Technology conducted by Kirori Mal College, University of Delhi, Under UGC Paramarsh Scheme, Siliguri, West Bengal – 734 009, India, November 23 - 24, 2020.
- One Day onsite Training Programme of IEEE Xplore on "ASPP Online", Organized by IEEE Representative, BBSR, in association with IQAC - Siliguri Institute of Technology and Central Library - Siliguri Institute of Technology 28, 2020 - The Speaker - IEEE Representative - BBSR.
- One Day Seminar on "The Role of Women in Science for Nurturing Generation" on National Science Day 2020, Organized by Siliguri Institute of Technology in Collaboration with MAKAUT, February 28, 2020 - The Speaker - DR. Sudakshina Kundu, Ex-Professor-MAKAUT, West Bengal and on "Mathematical Modelling on Population Dynamics" - The Speaker - Dr. Md. Reduanur Mondal.

- One Day Seminar on "Computerize Web Based Management System Beta Version (B-CWMS)", Organized by Siliguri Institute of Technology in Collaboration with MAKAUT, February 11, 2020 – The Speaker – DR. S K Maity, IC-MAKAUT and Dr. P P Lahiri, Regisrear-MAKAUT, West Bengal.
- One Day Seminar on "Sexual Harassment of Women at Workplace ACT (PPT). 2013", Organised by Siliguri Institute of Technology, west Bengal, India, January 28, 2020 – The Speaker – Dr. Sanchari Roy Mukherjee, Dean North Bengal University.
- One Day Seminar on "Industry 4.0, Big Data and Trends in Global Economy", Organised by Siliguri Institute of Technology, west Bengal, India, January 28, 2020 – The Speaker – Dr. Debashish Chakraborty, Dean – School of Business, Seton Hill University, USA.
- Five Days Faculty Development Programme on "Micro Small and Medium Enterprises (MSME)", Organised by MSME, Govt. Of India, India, January 20 – 24, 2020 – The Speaker – Mohd. Nahid Alam, Dy. Director & Head Economic Affairs, Manufacturing, Trade, EODBS and IPR, The Associated Chamber of Commerce and Industry of India (ASSOCHAM), Govt. Of India.
- One Day Faculty Development Programme on "Intellectual Property Right (IPR)", Organised by MSME, Govt. Of India, India, January 20, 2020 - The Speaker - Sri. Vijay Kumar Sivpuje, Advisor, IPR, The Associated Chamber of Commerce and Industry of India (ACCOCHAM), Govt. Of India.
- One Day Seminar on "Digital Valuation System", Organized by the Siliguri Institute of Technology, Siliguri in joint collaboration with Maulana Kabul Kalam Azad University of Technology, West Bengal, India, December 02, 2019 – The Speaker – Dr. Subhashis Dutta – COE - MAKAUT.
- One Day Workshop on "Faculty Awareness Programme on Excellence in Higher Education", Organized by the Siliguri Institute of Technology, Siliguri in joint collaboration with National Assessment and Accreditation Council (NAAC), India, November 08, 2019 The Speaker Padma Shri (Dr.) Virander Singh Chauhan The Executive Chairman NAAC.
- Three Day International Conference on Digital Pedagogies, April 1 3, 2019, Organized by The JIS College of Engineering, Kalyani, Nadia, West Bengal, India, In collaboration with AICTE, MHRD, NPIU, World Bank Group, Microsoft.
- One Day Seminar on "Emerging Trends on IT", Organised by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, Dum Dum, India, February 10, 2019.
- One day National Conference on Indian Higher Education "Digital Disruption in Education", By Mr. Amit Roy, MD, Protivity India, Organized by Narula Institute of Technology, in Collaboration with JIS Group of Institutions and JIS University, January 31, 2019.
- One day Long Panel Discussion and Gala Trade Fair on "Globalisation Education Fair", Organized by Indian Chamber of Commerce, in Collaboration with JIS Group of Institutions, JIS University, NIT-DGP, Burdwan University and MAKAUT, January 09, 2019 (A AICTE Programme).
- One day Seminar on "Recent Technological Advancements in Semiconductor Device: A Quantum World" Organized by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, August 24th, 2018, delivered by Prof. Arpan Deyasi, RCCIIT, Kolkata, India, October 11, 2018.
- One day National Conference on "Indian Higher Education: Quality Assurance, Accreditation & Ranking", Organized by Education Promotion Society of India, Organised by EPSI in Collaboration with JIS Group, JIS University and APAI, At Hotel Hindustan International, Calcutta, India, September 30, 2018 (A AICTE Programme).
- One Day Seminar on "Recent Trends in Printed Antenna Research", Organised by Department of Electronics & Communication Engineering, Dr. Sudhir Chandra Sur Degree Engineering College, August 24th, 2018, delivered by Prof. (Dr.) Jawed Yaseen Siddiqui, Professor, Institute of RadioPhysics & Electronics, Calcutta University, Calcutta, India.
- One day Workshop on "Latest Technological Trends in Green Building", Organized by The Department of Electronics & Communication Engineering, in Collaboration with Department of Electronics Engineering Kalyani, Nadia, West Bengal, in

- association with Ganapati Products, Silaris Energy Pvt. Ltd. January 24, 2018 (A MSME Programme).
- One day Workshop on "Nanoelectronics and MATLAB based Simulation", Organized by The Department of Electronics & Communication Engineering, Kalyani, Nadia, West Bengal, October 28, 2017.
- One day Active Learning seminar "Pre Workshop Assessment Techniques", by Dr. Nicholas Philips and Ms. Mara Simmons of Russia Organized by Gurunanak Institute of Pharmaceutical Science & Technology in collaboration with Russian University, GNIT Campus, Agarpara, West Bengal, India, September 07, 2017.
- One day An Awareness Workshop on "Outcome Based Education and Accreditation For Engineering Colleges in West Bengal", Organized by The Maulana Abul Kalam Azad University of Technology, West Bengal, India in collaboration with NBA Delhi), May 28, 2017.
- One day Workshop on "Nodal Training, Placement service and Liaison Centre", Organized by The Maulana Abul Kalam Azad University of Technology, West Bengal, May 13, 2017.
- Two day International Symposium on "Gen Next Initiatives for Digital India & Launching of Centre of Excellence, Organized by JIS College of Engineering, Kalyani Nadia, West Bengal, at Hyatt Regency, Kolkata, India, February 23 - 24, 2017.
- One day workshop on NBA Accreditation by Dr. S K Soni Organized by The JIS College of Engineering, Kalyani, Nadia, October 27 28, 2016.
- One day "The TEQIP Sponsored Academic Workshop, Organized by The JIS College of Engineering, Kalyani Nadia, West Bengal, India 712121, in collaboration with IEEE Kolkata Section.), December 12, 2016.
- Two day I3SET "International Conference on Industry Interactive Innovations in Science, Engineering & Technology" (I3SET - 2016), Organized by The JIS College of Engineering, Kalyani Nadia, West Bengal, India - 712121 in collaboration with TEQIP, Springer), October 25 - 26, 2016.
- One Day The TEQIP Sponsored seminar on "Image Processing and Pattern Recognition" (IPPR - 2016), Organized by The Department of Computer science & Engineering, JIS College of Engineering, Kalyani Nadia, West Bengal, India -712121, April 16, 2016.
- Three Day 3rd World Summit on Accreditation "Quality Assurance Through Outcome Based accreditation", Organised by Office of the Secretariat, NBA, NBCC Place East Tower, New Delhi, India from March 18-20, 2016.
- One Week "Faculty Development Programme on Advanced Pedagogy", Organised by The JIS College of Engineering, Kalyani, Nadia, West Bengal, India, Training provided by NITTTR, Kolkata, India from June 24-30, 2015.
- Presented a short work entitled "Design of Broadband Optical Emitter using Quantum Disk for Sensing Application" in UKIERI Workshop on "Photonic Imaging and Sensing", organized by Institute of Radio Physics and Electronics and University of Sheffield, 2015
- Three day 39th International Conference on Optics and Photonics (ICOP 2015), (Golden jubilee Conference of Optical Society of India, Organized by The Department of Applied Optics and Photonics, University of Calcutta, Calcutta, West Bengal - 700 009, India in collaboration with Optical Society if India (OSI),) February 20 - 22, 2015.
- Two day "The 3rd International Conference on Computer, Communication Control and Information Technology" (C3IT – 2015), Organized by The Academy of Technology, Hooghly, West Bengal - 712121, India in collaboration with IEEE Kolkata Section.), February 07 - 08, 2015.
- Two day "The 1st International Conference on Advancements of Medical Electronics" (ICAME - 2015), Organized by IIS College of Engineering, Kalyani, Nadia, India, in collaboration with IEEE Kolkata Section, Sponsored by TEQIP, New Delhi, India, January 29 - 30, 2015.
- One day "The 8th National Convention Students Conclave on Reform of Engineering Education for Better Employability of Engineers" Organised by The Engineering Council of India, Sponsored by TATA STEEL, at the Auditorium, Indian Institute of Chemical Engineers, Dr. H.L. Roy Building, Gate No. 3, Jadhavpur University Campus, Raja Subodh Malik Road, Kolkata – 700032 on September 03, 2014.

- Three day "The International Conference on Microwave and Photonics (ICMAP 2013)", Organised by The Department of Electronics Engineering, Indian School of Mines (ISM), Dhanbad, India from December 13-15, 2013.
- Three day "The International Conference on Magnetic Materials and Applications (MagMa - 2013)", Organised by Department of Physics, Indian Institute of Technology, Guwahati, Assam, Jointly with Magnetics Society of India, India from December 05-07, 2013.
- Three day "The 3rd International Conference on Advanced Nanomaterials and Nanotechnology (ICANN - 2013)", Organised by Department of Centre for Nanotechnology and Indian Institute of Technology, Guwahati, Assam, India from December 01-03, 2013.
- Five day "The 100th Indian Science Congress (ISC 2013)", Organised by The Indian Science Congress Association, University of Calcutta, India from January 03 07, 2013.
- Three day International Conference of "Computers and Devices for Communication (CODEC - 2012)" Organised by Institute of Radio Physics & Electronics, University of Calcutta, India in Collaboration with IEEE Communication Society, Kolkata Chapter, India, from December 17-19, 2012.
- Two day National Conference on "Computing and Communication Systems (NCCCS 2012)", Organised by The Department of Computer Science and Engineering and The Department of Information Technology, Dr. B C Roy engineering College, Durgapur, India, in Collaboration with IEEE Calcutta Chapter, IEEE Kharagpur Section and Computer Society of India, from November 21-22, 2012.
- Three day International Conference on "Recent Advances In Information Technology (RAIT – 2012)", Organized by The Department of Computer Science and Engineering, ISM Dhanbad, India in collaboration with IEEE, from March 15th to 17th, 2012.
- Two day International Conference on "Computer, Communication, Control and Information Technology (C3IT - 2012)", Organized by The Academy of Technology, Hooghly, West Bengal, from February 25th to 26th, 2012.
- Two day International Conference on "Engineering Education In The New Century (E2NC - 2012)", Organized by Sir J C Bose College of Engineering, Supreme Knowledge Foundation Group of Institutions, Mankundu, Hooghly, West Bengal, from February 03rd to 04th, 2012.
- International Workshop on "The Physics and Semiconductor Devices (IWPSD 20011" December 19-22, 2011, Organised by Indian Institute of Kanpur, Solid State Physics Laboratory & IEEE Kanpur Chapter, IIT Kanpur, India.
- Two day National Conference on "Frontiers in Electronics Communication and Instrumentation Technology (FECIT -2011)" Organized by Department of Electronics Engineering, ISM Dhanbad, India, from November 03rd to 04th, 2011.
- Three day National Conference on "Recent Advances in Material and Technology (NCRAMT - 2011)" Organized by School of Applied Sciences (SAS), Haldia Institute of Technology, Haldia, West Bengal, from June 24th to 26th, 2011.
- Three day International Conference on "Modelling, Optimisation and Computing (ICMOC - 2010)", Organised by National Institute of Durgapur, Durgapur (NIT-Durgapur), West Bengal, India, from October 28th to 30th 2010.
- International Workshop on "The Physics and Semiconductor Devices (IWPSD 2009)" December 15-19, 2009, Organised by Solid State Physics Laboratory & Jamia Millia Islamia University, Sponsored by (Defence R&D Organization), SSD, EDS, IEEE Delhi Chapter, India.
- Workshop on "Photonic devices and Systems for Mid and long Wavelength Infrared Applications", Organised by joint venture of University of Sheffield and university of Calcutta at Institute of Radio Physics & electronics, Calcutta University - Kolkata, Co-sponsored by IEEE Photonics Society Calcutta Chapter and UGC Networking Centre in Physical Sciences, Institute of Radio Physics & electronics (IRPE), Calcutta University December 13th, 2009.
- Conference on "Technology Advancements in eSECURITY & Prevention of CYBER CRIME", Organised by WEBEL Kolkata at The Oberoi Grand Hotel Kolkata, September 16th, 2009.
- Faculty Development Programme (FDP) on "SMT" at BIT Mesra, Kolkata Extension, Organised by TCS Kolkata, September 14th, 2009.

- > Faculty Development Programme (FDP) on "SOA" at BIT Mesra, Kolkata
- Extension, Organised by TCS Kolkata, June 19th, 2009. Two day International Workshop on "Photonics to Nanophotonics" Organized by IEEE Photonics Society - Calcutta Chapter, at the Department of A K Choudhury School of IT, University of Calcutta, from June 12th to 13th, 2009.
- > Faculty Development Programme (FDP) on "Six Sigma" at BIT Mesra, Kolkata Extension, Organised by TCS Kolkata, January 19th, 2009.
- > International Workshop on "The Physics and Semiconductor Devices (IWPSD -2007)" at IIT-Bombay, Organised by IIT- Bombay, TIFR - Bombay, Sponsored by EDS, IEEE AP/ED Bombay Chapter, December 16th to 20th, 2007
- Seminar on "Web Information Retrieval", by ISI Kolkata, August 11th 2006
- Workshop on "Nano Technology" at Calcutta University, December 18th to 20th, 2006
- National Workshop on "Support Vector Machines" at Centre for Soft Computing Research, ISI Kolkata, November 9th to 11th, 2006
- Training on "Micro Teaching for Teaching Skill Development" by NITTTR, August 2nd to 6th 2005

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Paper Publications: Patent Published:

Patent Title: An Arrangement for Disabled User for Computer Interaction

File Number: 180/KOL/2015A, Date: 13.03.2015, Number of Pages: 21, Number of Claims: 9

International Classification: G06F3/01

Abstract of innovation: This invention relates to an arrangement for disabled user for computer interaction and in particular, this invention relates to the arrangement for disabled user like cerebral palsy. More particularly, this present invention also relates to an arrangement for disabled user which can initiate the computational communication technology towards cerebral palsy for sultability and imperviousness aspects with various cyber applications (browsing websites, video chat, internet calling etc.). Furthermore, this invention also relates to an arrangement for cerebral palsy or physically disabled patients in which study and interactions about physical activities can make out their responses intended for connecting with surroundings in every moment.

http://www.ipindia.nic.in/ipr/patent/journal_archieve/journal_2015/pat_arch_032015/ official journal 13032015 part i.pdf

Patent Title: A System for Providing Cardiovascular Disorder Diagnostic

File Number: 201631008555 A, Date: 08.04.2016, Number of Pages: 30, Number of Claims: 8

International Classification: H04L12/28

Abstract of innovation: This invention relates to a system for providing cardiovascular disorder diagnosis services and in particular, this invention relates to a diagnosis system which detects cardiovascular diseases in an automatic way based on the ECG signal. More particularly, this present invention relates to the diagnosis system which sends a pulse to the heart to energize its beat to a normal rate when it gets the abnormal signal from the heart. Furthermore, this invention also relates to a diagnosis system which has the beneficial effects of having saving manpower, safety and reliability.

Patent Title: Wireless Detachable Bluetooth Microphone Speaker

File Number: 201731011727 A, Date: 21.04.2017, Number of Pages: 23, Number of

Claims: 10

International Classification: H04R1/08

Abstract of innovation: This invention relates to a Wireless Detachable Bluetooth Microphone Speaker and in particular, this invention relates to a Bluetooth Microphone Speaker in which the wireless detachable speaker module can be kept separate anywhere. This invention relates to a Bluetooth Microphone Speaker in which the wireless microphone can be used up to a defined wireless distance along with the use as a separate speaker module for any other audio devices as well as for mobile phones. Furthermore, this invention also relates to a Bluetooth Microphone Speaker which has the beneficial effects of having portable with easy installation, rough and tough alongside and having safety and reliability.

Patent Title: Digital Voting Machine (DVM)with Biometric Verification System with Instant Counting Facility

File Number: 201931005971, Date: 15.02.2019, Published on 24.05.2019, No of

Pages: 50, No. Of Claims: 10

International Classification: G07C13/00

Abstract of innovation: The present invention relates to a Digital Voting Machine with biometric verification system and auto counting method on the day of election without any human resource by transmitting voting data through wireless communication system. More particularly, the present invention discloses a biometric registration system and method employing biometric verification. The system and method may be utilized, e.g., for verification, and/or for participation, including for pre-registered electronic voter and for participation in electronic voting.

Patent Title: A Car Ignition System Based On Application Controlled Biometric Sensor

Application Number: 202031031645A, Date: 14.08.2020, Number of Pages: 30, Number of Claims: 7

International Classification: B60R/023; F02D 11/22; F02N 11/08

Abstract of innovation: The present invention relates to a car ignition system based on android application controlled biometric sensor. The present invention also relates to a biometric based ignition system of vehicle and an Android application to access the finger print sensor because all human being have unique, immutable fingerprints which consists of a sequence of ridges and furrows/valleys on the exterior of the finger. The present invention also relates to a biometric based ignition system of vehicle wherein the individuality of a fingerprint can be resolute by the pattern of ridges and furrows as well as the finer points and biometric substantiation increases the system safety to a vast extent. The present invention also relates to a biometric based ignition system of vehicle wherein the enrolment of fingerprint image or removing any previous fingerprint data becomes user friendly for this android application and the vehicle engine will be ignited only if fingerprint image is registered in fingerprint sensor.

http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1 4897 1/Part-1.pdf

Book Published:

Swapan Bhattacharyya, Sabyasachi Sen, Meghamala Dutta, Papun Biswas and Himadri Chattopadhyay (Editor), "Industry Interactive Innovations in Science, Engineering and Technology", Proceedings of the International Conference, I3SET 2016, Lecture Notes in Networks and Systems 11 [Springer] [ISBN. No: 978-981-10-3952-21

Paper Published:

List of Publications in 2021:

Soumyendu Bhattacharjee, Aishwarya Banerjee, Amit Rakshit, Swapan Bhattacharyya, Swati Chowdhuri, Biswajit Sarkar and Biswarup Neogi, "Dynamics of Cardiovascular Muscle Using a Non-Linear Symmetric Oscillator", Journal of Symmetry - MDPI, Volume 13 (1),151, pp. 1-18 (2021), [doi: 10.3390], [Symmetry, 2021, 13(1), 151. https://doi.org/10.3390/sym13010151].

D Manna, S Baidys and S Bhattacharyya, "Sentiment Analysis of Audio Diary", [Springer Nature Singapore Pte Ltd 2021, Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems, Lecture Notes in Electrical Engineering, vol. 673, pp. 99-111, 2021] [ISBN: 978-981-15-5546-6] [https://doi.org/10.1007/978-981-15-5546-6_9]

List of Publications in 2020:

Arpan Deyasi, S Bhattacharyya, P Debnath and A Sarkar "Authentic Pedagogy: A Project-Oriented Teaching-Learning Method Based on Critical Thinking", [Springer Nature Singapore Pte Ltd, 2021, Computational Intelligence in Digital Pedagogy, Intelligent Systems Reference Library, Book Series (ISRL.,] vol. 197. pp. 1-20, 2020] [ISBN: 978-981-15-8743-6] [https://doi.org/10.1007/978-981-15-8744-3_1]

List of Publications in 2019:

- Arpan Devas and S Bhattacharyya, "Quantum-Confined States of Electrons in Semiconductor Quantum Ring Under Crossed Electromagnetic Field", [Springer Nature Singapore Pte Ltd 2019, Lecture Notes in Electrical Engineering 556, Microelectronics, Computing and Communication Systems, vol. 556, pp. 161-170, 2019]] [ISBN: 978-981-13-7091-5_15] [https://doi.org/10.1007/978-981-13-7091-5_15]
- Debasmita Manna, Shaon Baidya and S Bhayyacharyya, "Sentiment Analysis of Audio Diary", Proc. of the 4th International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018), May 11 12, 2019, (Paper id MCCS 19015), Organized by The VLSI Design Group, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India, in collaboration with ARTIC, BSNL, Ranchi Centre. [Springer]
- Arpan Deyasi, S Bhattacharyya, Pampa Debnath, Soumen Mukherjee and Anup Kumar Bhattacharjee, "Effective Utilization of Digital Resources for Undergraduate Teaching Education Through Flip Learning for Performance Improvement", Proc. of the International Conference on Digital Pedagogies (ICDP 2019), April 1 3, 2019, (Paper id ICPD 54), Organized by The JIS College of Engineering, Kalyani, Nadia, West Bengal, India, in collaboration with AICTE, MHRD, NPIU, World Bank Group, Microsoft. [Springer], [Received Best Paper Award]
- Arindam Banerjee, S Bhattacharyya, and Arpan Deyasi, "Synthesis of High Speed Multi-Valued ALU for (2" ± q) Radix", [Springer: Lecture Notes in Electrical Engineering: Nanoelectronics, Circuits and Communication Systems, vol. 476, chapter 13, pp. 823-837, 2019] [ISBN: 10.1007/981-10-8234-4_67]
- A. Banerjee, A. Deyasi, S. Bhattacharyya, and A. Sarkar, "Fast Squaring Technique for Radix Vicinity Numbers for Radix (2" ± M) with reduced Computational Complexity", [Springer: Lecture Notes in Electrical Engineering: Nanoelectronics, Circuits and Communication Systems, vol. 511, chapter 13, pp. 139-147, 2019] [ISBN: 10.1007/978-981-13-0776-8-13]

List of Publications in 2018:

- Arpan Deyasi and S Bhattacharyya, "Implementation of Outcome-Based Education through Activity-Based Teaching-Learning System", Modern Technologies for Teaching and Learning in Socio-Humanitarian Disciplines, Department of Psychology of Education & Pedagogy St Petersburg University in Colaboration with IGI Global, [IGI Global, eEditorial Discovery], pp. 68-89 [ISSN: 2326-8905 (Print), 2326-8905])[doi: 10.4018/978-1-5225-7841-3.ch004]. Book is published in the IGI Global book series Advances in Educational Technologies and Instructional Design (AETID), USA
- S. Bhattacharyya, S. Halder, and A. Deyasi, "Effect of Surface-to-Volume Ratio on Eigenenergy in Quantum Ring", [Springer Series of Lecture Notes in Networks and Systems: Industry Innovative Innovations in Science, Engineering and Technology, pp. 71-78, 2018] [DOI: 10.1007, ISBN 978-981-10-3953-9]
- Arpan Deyasi and S Bhattacharyya, "Energy States of Electrons in Semiconductor Quantum Ring under Crossed Electromagnetic Field", Proc. of the 3rd International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018), May 12 13, 2018, (Paper id MCCS 18026), Organized by The VLSI Design Group, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India, in collaboration with ARTTC, BSNL, Ranchi Centre. [Springer]
- Mournita Pal, S Bhattacharyya and Tresata Sarkar, "Euler Nunber Based Feature Extraction Technique for Gender Discrimination from Offline Hini Signature Using SVM & BPNN Classifier",

Proc. of the 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT - 2018), March 08 - 09, 2018, (Paper id - EDCT 17028), pp. 18-19, EDCR - 2018, Organized by The Guru Nanak Institute of Technology, Sodpur, Kolkata, India, in collaboration with IEEE Kolkata Section

List of Publications in 2017:

- Arindam Banerjee, Sohini Pal, S Bhattacharyya and Debesh Das, "Memristor Based MAC Architecture Design for (2" 1) and 2" Radix", Journal of Active and Passive Electronic Devices (Philadelphia, PA 19123 USA), Old City Publishing Corporation, JAPED-DevIC-2017-7, vol. 0, pp. 1-19.... [ISSN: 1555-0281(Print), 1555-029X (Online) I.F. = 0.414]
- Arindam Banerjee, S Bhattacharyya, and Arpan Deyasi, "Fast Squaring Technique for Radix Vicinity Numbers for Radix (2" ± m) with Reduced Computational Complexity", Proc. of the 3rd International Conference on Nano-electronics, Circuits and Communication Systems (NCCS 2017), Nov 11 12, 2017, (Paper id NCCS 1702B), Organized by The VLSI Design Group, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India, in collaboration with IETE, Ranchi Centre. [Springer]
- Arindam Banerjee, S Bhattacharyya, and Arpan Deyasi, "Synthesis of High Speed Multi-Valued ALU for (2" ± m) Radix", Proc. of the 2"d International Conference on Mocro-electronics, Computing and Communication systems (MCCS 2017), May 13 14, 2017, (Paper Id MCCS 17020), Organized by The VLSI Education Group, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India, in collaboration with IETE Ranchi Centre, ARTTC -BSNL, Ranchi, [Springer]
- S Bhattacharyya, Sourish Haldar and Arpan Deyasi, "Effect of Surface-to-Volume Ratio on Eigenenergy in Quantum Disk in presence of Magnetic Field", Proc. of the International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech - 2017), April 28 - 29, 2017, pp. 1-4, Organized by The Institute of Engineering & Management, Kolkata, West Bengal, India in collaboration with IEEE Kolkata Section, URSI, CSIR. [IEEE Xplore] [ISBN: 978-1-5386-1703-8/17@IEEE]
- Arindam Banerjee, Sohini Pal, S Bhattacharyya and Debesh Das, "Memristor Based Modulo Multiplier Design For (2" 1) and 2" Radix", Proc. of the 2nd International Conference on Devices for Integrated Circuits (DevIC 2017), March 23 24, 2017, (Paper id P07), Organized by The Department of Electronics & Communication Engineering, Kalyani Govt, Engineering College, Kalyani, Nadia, India, in collaboration with IEEE, (EDC Chapter), [IEEE Xplore] [Doi: 10.1109/DEVIC.2017.8073898] [ISBN: 978-1-5090-4724-6].

List of Publications in 2016:

- Arindam Banerjee, S Bhattacharyya and Arpan Deyasi, "High Speed Reconfigurable ALU Design in Radix (2" ± m)", Old City Publishing Corporation, IAPED-DevIC-2017-7, vol. 0, pp. 1-19.... [ISSN: 1555-0281(Print), 1555-029X (Online), vol. 5, no. 2, pp. 183 187 (2016), 1-X (Paper Id: 18) [doi: 10.7508], [ISSN. No: 2222-7067].
- S Bhattacharyya, Sourish Halder and Arpan Deyasi "Effect of Surface-to-Volume Ratio in Eigenenergy on Quantum Ring", Proc. of the Industry Interactive Innovation in Science, Engineering & Technology (13SET 2016), October 25 26, 2016, (Paper id P136), pp. 71-78, Organized by The JIS College of Engineering, Kalyani Nadia. [Springer series lecture Notes in Networks and Systems] [ISSN: 2367-3370].
- Arindam Banerjee, S Bhattacharyya and Arpan Deyasi, "High Speed Reconfigurable ALU Design for Radix", Proc. of the 1st International Conference on VLSI Device, Circuit & System (VLSI DSE-2016), October 19 20, 2016, (Paper id P18), Jointly Organized by IEEE MSIT Student Branch, IEEE EDS, The Department Electronics & Communication Engineering, Meghnath Saha Institute of Technology, Kolkata, India, in collaboration with IEEE SSCS, Kolkata Chapter, Kolkata, India [ISSN 2222 -7059].
- Sourish Haldar, Sreyansh Bhupal, Sreeparna Sen, Priyankar Sandel, and S Bhattacharyya "Hardware Efficient Analog Encryption Methodology for Digital Data Transmission", Proc. of the 6th International Symposium on Embedded Computing & System Design (ISED - 2016), October 15 - 17, 2016, (Paper id - P99), Organized by Indian Institute of Technology, Patna. [IEEE].
- Susmita Das, Soumendu Bhattacharjee, S Bhattacharyya and Biswarup Neogi, "Study of Systematic Modeling for Cardiac and Respiratory System towards Support on Prosthesis Facets", Proc. of the IEEE International Conference on Computational Science & Engineering (ICCSE 2016), October 04 06, 2016, (Paper Id P98), pp 81-86, Organized by The Department of Electronics & Communication Engineering and The Department of Computer Application, RCC Institute of Information Technology, Kolkata, India, in collaboration with IEEE Electron Device

- Society, Kolkata Chapter and The institute of Engineers (India) Kolkata Section. [Taylor & Francis] [ISBN 978-1-138-02883-5].
- Sourish Haidar, Sreyansh Bhupal, Sreeparna Sen, Priyankar Sandel, Urmi Bose, S Bhattacharyya and Subham Ghosh, "Hardware Efficient Method for Arbitrary Waveform Generation", Proc. of the IEEE International Conference on Computational Science & Engineering (ICCSE 2016), October 04 06, 2016, (Paper Id P3), pp 123-126, Organized by The Department of Electronics & Communication Engineering and The Department of Computer Application, RCC Institute of Information Technology, Kolkata, India, in collaboration with IEEE Electron Device Society, Kolkata Chapter and The Institute of Engineers (India) Kolkata Section. [Taylor & Francis] [ISBN: 978-1-138-02883-5].
- Sohini Pal, Arindum Banerjee and S Bhattacharyya, "Optical Network Based RNS Multiplier in (2º 1) Radix System using SOA-MZI", Proc. of the National Conference on Recent Advances in Science & Technology 2016 (NCRAST 2016), A TEQIP II Sponsored Conference, September 27 29, 2016, (OP-14), Organized by Heritage Institute of Technology, Kolkata, West Bengal, India
- Ashraful Islam and S Bhattacharyya, "Comparative Study of DSSS & FHSS and BER Analysis", Proc. of the 7th All India Inter Engineering College Academic Meet 2016 & innovative Model Competition For a Sustainable Society, March 13, 2016, (Paper id E36-E&C-08- P301), Organised by Forum of Scientists, Engineers & Technologist (FOSET) in association with Supreme Knowledge Foundation Group of Institutions, Mankundu, Hooghly, West Bengal, India.
- Sreyansh Bhupal, Sreepama Sen, Priyankar Sandel, Sourish Haldar & S Bhattacharyya, "A Microcontroller Based Method of Arbitrary Wave Synthesis", Proc. of the 7th All India Inter Engineering College Academic Meet 2016 & Innovative Model Competition For a Sustainable Society, March 13, 2016, (Paper Id E52-E&C-12), Organized by Forum of Scientists, Engineers & Technologist (FOSET) in association with Supreme Knowledge Foundation Group of Institutions, Mankundu, Hooghly, West Bengal, India Received The Best Paper Award.

List of Publications in 2015:

- Gautam Lohar and S Bhattacharyya, "Quantum Theory Models of a Transmission Line", Quantum Theory Models of a Transmission Line December 29 30, 2015, pp 99-102, (Paper id P301), Organised by RCC Institute of Information Technology, Kolkata, India [ISBN: 978-93-8592-600-6].
- Arpan Deyasi, Kasturi Mukherjee and S Bhattacharyya, "Dependence of Small-Signal Properties of Si/SignGeout DDR IMPATT on Input Current Density at Millimeterwave Frequency", Proc. of the IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN 2015), November 20 22, 2015, pp 290-293, (Paper id P319), Organised by RCC Institute of Information Technology, Kolkata, India, in collaboration with IEEE CIS Kolkata Section and ACM Kolkata Chapter, India. [IEEE Explore], [doi: 10.1109/ICRCICN.2015.7434252], [ISBN: 978-1-4673-6734-9 @2015 IEEE].
- Biswarup Neogi, Tanmoy Singha, Sasmita Das, Swati Ghosh, Nilotpal Manna and S Bhattacharyya, "Performance Study and Analysis towards Discrete System Introducing Jury Test Simulator", African Journal of Computing and ICTs, Volume 8, No. 1, pp. 27-38 -12 (2015), [IEEE Explore, ISSN: 2006 1781].
- Arpan Deyasi, S Bhattacharyya and N R Das, "Effect of Nonparabolicity on Intersubband Transition Energy in Spherical Core-Shell Quantum Dot", Proc. of the 39th International Conference on Optics and Photonics (ICOP 2015), (Golden jubilee Conference of Optical Society of India) February 20 22, 2015, pp 1-4, (Paper id 128) Organised by The Department of Applied Optics and Photonics, University of Calcutta, Calcutta, West Bengal 700 009, India in collaboration with Optical Society if India (OSI). (IEEE Explore Linked) / (SPIE Linked Feb 2015), [ISBN: 978-93-80813-31-8].
- F Arpan Deyasi, S Bhattacharyya and N R Das, "Calculating Intersubband Transition Energy in T-shaped Quantum Wire using FD Technique", Proc. of the 3rd International Conference on Computer, Communication Control and Information Technology (C3IT 2015), February 07 08, 2015, pp. 1-4, (Paper id 44) Organised by The Academy of Technology, Hooghly, West Bengal 712121, India in collaboration with IEEE Kolkata Section. (Procedia Technology (ELSEVIER), 2015)[IEEE Explore], [ISBN: 978-1-4799-4445-3/15⊕2015 IEEE].
- S Bhattacharyya and Arpan Deyasi, "Tailoring Characteristic Wavelength Range of Circular Quantum Dots for Detecting Signature of Virus in IR Region", Proc. of the 1st International Conference on Advancements of Medical Electronics (ICAME 2015), January 29 30, 2015, pp 353-363, (Paper Id P033), Organised by JIS College of Engineering, Kalyani, Nadia, India, in

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