



Name :

Flight Lieutenant

Prof. MUNESH CHANDRA ADHIKARY

**Position: Former Chairman, P.G. Council
(Pro Vice Chancellor)**

**Professor of Physics (Retd.)
Adjunct Professor
Fakir Mohan University,
Balasore-756089, Odisha**

Educational Qualification ; M.Sc. (Physics) , M.Phil.(Physics) , Ph.D.(Computer Science)

Date of Birth : 22.08.1963

Phone: 9438120087 /9438123737

**Email : mcadhikary@gmail.com /
profmcadhikary@gmail.com**

**Permanent Address : MIG-9A-256, KALINGA NAGAR 9A
PO: PATRAPADA ,
BHUBANESWAR-756019, ODISHA**

Website: www.profmcadhikary.com

- **VISION**

Be an academic leader among to lead higher education organizations for delivering innovative, high-value programs and services in the line of National Education Policy.

- **MISSION STATEMENT**

Deliver quality stakeholder-oriented services and programs that provide the strong foundation for the University and HEIs to excel in education, research and public service.

- **VALUES**

- Ethically guiding the HE system of the country to develop responsible future citizens for a competent Bharat.
- Logically leading the system for promoting indigenous researches and teachings with a view to help the Indian youth to be leaders of a developed India.
- Looking forward for developing a collectively responsible education system that can work for sustainable growth and development.

MY STRENGTH :

- **I commit myself to the highest ethical standards following the principle:**

Ethics of RAISE

Respect: I value others by fostering an inclusive, collaborative and positive environment inside the office of University and related..

Accountability: I am proactive and take personal responsibility to follow through on commitments and a good steward of Higher Education Resources.

Integrity: I conduct myself as an ethical and honest representative of the University.

Service: I provide a positive stakeholder experience within a safe environment during the course of responsibility as Academic Administrator.

Excellence: I always do my best and pursue continuous improvement of each and everyone , directly or indirectly connected with the University and Higher Education.

- **INNOVATIONS TO DO _ MY ASSESSMENT :**

1. Bringing out the Implementation of NEP-2020 .

2. Complete Automation of the University / HEI activities.

- Automation of Office
- Paperless work
- Automation of Selection and Admission
- Automation of Library
- Automation of Examination

3. Establishing the 100% Academic Environment in the campus of all HEIs.

- Each One Teach One by Student as a project work under Literacy Development Activity as a Non-Credit Paper.

4. Strengthening the Research Activities.

5. Developing Good Infrastructure with Green Campus and Solar Power System.

ACTIVITIES DONE UNDER ACADEMIC LEADERSHIP:RESEARCH ,EDUCATION & ADMINISTRATION :

I, **Flt. Lt. Prof. Munesh Chandra Adhikary**, as **faculty of Physics** for last 35 years 07 Months (at College Service level from 25.01.1988 to 28.04.2008 and at University Service level from 29.04.2008 to 31.08.2023) , got the opportunity to gain good experience by doing a number of activities under Academic Administration, Research and Education. Being the **Commissioned NCC Officer (Air Wing)** from 1996 to 2008 in the rank of **Flight Lieutenant** at college, I motivated the students in giving educational training, discipline and social works. In the fields of research like experimental material science and neural network, so far 10 students awarded Ph.D. degree and 15 students awarded M.Phil. degree. I have **presented research papers** in various international conferences at abroad countries like **Australia-Sydney(2011), Thailand-Bangkok(2012), Nepal-Pokhara(2016) and Germany-Dresden(2017) and also visited other countries like Czech Republic, France, Italy and Malaysia**. To my credit, I have published 56 research papers in various national and international journals and published 02 books and edited 08 journals / proceedings so far. So far, I have completed 02 Research Projects (01 DST and 01 DRDO) and now continuing 01 Research Project (as Group Leader of Physical Science-Component-B , Center of Excellence under OHEPEE, Govt. of Odisha and World Bank). I, as the Convener, conducted four National Seminars (2010, 2011, 2012, 2014, one State level Annual Convention of Orissa Physical society with national Seminar (2015) and one International Conference (2016) on various themes of research area. I, as **Head of Applied Physics & Ballistics Department**, F.M. University (2010-2012, 2014-2016, 2018-2020) and Coordinator of Applied Physics & Ballistics Department, F.M. University (2013-2014) , initiated to establish Advanced Research Laboratory on Material Science for interdisciplinary work at F.M. University. I published innovative science articles and also designed education materials in website. Also as Officer in Charge of Website, I developed and launched the Official Website of Fakir Mohan University in the year 2009, which is reflecting the mirror image of the university as communication tool till date for the benefit of students as well as society. Again, I as **Director, Directorate of Distance and Continuing Education DDCE**, F.M. University (01.02.2013-21.07.2014 and for second term from 01.05.2019 to 30.09.2021), served for the wide implementation of open education for each class of people. As the **REGISTRAR** of F.M. University for 1 ½ years from Dt.12.05.2014 to Dt.30.11.2015 , I have executed good number of University Administrative Works like execution of Syndicate Meetings, Academic Council Meetings, Senate and Syndicate Member Elections, Convocations, College Affiliations, Appointments, Development Works , RTI and Legal Matters , Tender and Financial Matters, Grievance Cell etc. and in addition to the administration work I also organized Training Programs, Lecture Series in interacting with students as well as people of the society. Further, I am elected as **Vice-President** of Orissa Physical Society for two years 2018-20. I have also completed as **Director of Human Resource Development Centre** of Fakir Mohan University from 01.10.2021 to 30.06.2022. Again, NAAC, Bengaluru has nominated me as **NAAC Assessor** since 14.01.2020 for Universities of India. By the way, I have completed my service as **Chairman of Post Graduate Council (Pro Vice Chancellor)** since 01.06.2021 to 31.08.2023. I am continuing as **Adjunct Professor** at F.M. University from 08.09.2023 after my retirement from the service.



08 Sept. 2023

Flt. Lt. Prof. Dr. Munesh Chandra Adhikary

CURRICULUM VITAE

Name :

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**Position: Former Chairman, P.G. Council
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**Phone : +91-9438120087 (m) /
+91-9438123737**

Mother's Name : Sailabala Adhikary

Father's Name : Ramesh Chandra Adhikary

**Permanent Address : MIG-9A-256, KALINGA NAGAR 9A
PO: PATRAPADA ,
BHUBANESWAR-756019, ODISHA**

Website: www.profmcadhikary.com

ACADEMIC PROFILE :

Degree	Area /Field	Topic / Title	University
Ph. D.	Computer Science – (Meteorology and Artificial Neural Network)	Development of Algorithm for Prediction of Meteorological Parameters like Temperature and Rainfall using Neural Network	Utkal University, Bhubaneswar
M. Phil.	Condensed Matter Physics (Experimental) – High Tc Superconductivity,	Normal State Resistivity Studies in Oxide Superconductors	Utkal University, Bhubaneswar
M.Sc.	Physics	Special : Solid State Physics	Utkal University, Bhubaneswar

FOREIGN COUNTRY VISITED - PRESENTING RESEARCH ORAL PAPERS:

1. **AUSTRALIA**- Presented an oral paper at International Conference AXAA-2011 at Sydney from 06-11 February 2011.
2. **THAILAND** – Presented oral papers at International Conference MSAT-7 on Material Science and Technology at Bangkok from 07-08 June 2012.
3. **NEPAL**- Presented an oral paper at International Conference KaSAM-2016 on Advanced Materials at Pokhara, Nepal from 17-20 October 2016.
4. **GERMANY**- Presented oral paper at International Conference PPS Europe-Africa-2017 on Nano Carbon based Composites at Dresden, Germany from 26-29 June 2017. On the same occasion visited different educational institutes/ universities of countries like **Czech Republic, France and Italy**.

RESEARCH PROJECTS : Completed independently :

SL NO.	Position	Project Topic	Duration	Sponsoring Organization
1.	Principal Investigator	Trend of Temperature in India for last two decades- A Computational Analysis	1996-2000	Dept. of Science and Tech. Govt. of Orissa , Bhubaneswar
2.	Principal Investigator	Prediction of Meteorological Parameters Using Neural Network	2000-2002	University Grants Commission (ER) Kolkotta.

RESEARCH PROJECTS : Completed jointly :

Sl.No	Position	Project Topic	Duration	Amount	Sponsoring Organization	Co-PI if any
1.	Principal Investigator	Development of 6-DOF Model for 76MM Naval Gun Projectile in Aid of Range Enhancement.	12 months 2012-13	9.9 lakhs	PXE, DRDO, Chandipur	Prof GC Rout (Retd)
2.	Group Leader/ Principal Investigator	Development of Hybrid Nanocomposite Materials for Efficient Electrochemical Energy Storage (EES) Devices	5 years 2018-23	part of Center of Excellence under F.M. University for total amount 4 crore	World Bank & Higher Education Dept., Govt. of Odisha	Dr. R. Biswal

ACADEMIC AWARDS & ACHIEVEMENTS :

Sl .No	Awards	Authority	Year
i)	National Merit Scholarship :	Govt. of India	1978
ii)	Senior Merit Scholarship :	Govt. of Orissa	1980
iii)	S. Panda Memorial Prize for Best Graduate :	Berhampur University	1982
iv)	Best officer Gold Medal & Trophy award as Pilot Officer :	Indian Air Force	1997
v)	Director General NCC Commendation Award & Silver Medal	Govt. of India	2002
vi)	Best officer Gold Medal & Trophy award as Flight Lieutenant	Indian Air Force	2004
vii)	Best Citizens of India Award for achievements in education	International Publishing House, New Delhi	2013

ADMINISTRATIVE EXPERIENCES : (UNIVERSITY LEVEL) :

Sl . No	Position	Year of Exp. / Period
i)	Chairman, Post Graduate council (Pro Vice Chancellor) , FM University.	from 01.06.21 to 31.08.23
ii)	REGISTRAR , FM University	from 12.5.14 to 30.11.15
iii)	Development Officer, FM Univ.	from 18.6.12 to 30.10.14
iv)	Head, Applied Physics & Ballistics Dept, FM University	i)from1.6.10 to 5.7.2012 ii)from 12.7.13 to 1.6.2014 iii)from 2.6.14 to 1.6.2016 iv)from 2.6.18 to 1.6.2020
v)	Senate Member, FM University	i)from1.6.10 to 5.7.2012 ii)from 12.7.13 to 1.6.2014 iii)from 2.6.14 to 1.6.2016 iv)from 2.6.18 to 1.6.2020
vi)	Member , Academic Council, FM Univ.	i)from1.6.10 to 5.7.2012 ii)from 12.7.13 to 1.6.2014

		iii)from 2.6.14 to 1.6.2016 iv)from 2.6.18 to 1.6.2020
vii)	Director, Placement Cell, FM Univ.	from 07.5.12 to28.2.13
viii)	Public Relation Officer, F.M. University	from 9.12.15 to 30.09.2021
ix)	Director,(DDCE)Directorate of Distance and Continuing Education ,FM Univ.	i)from 01.2.13 to 21.07.14 ii)from 1.05.19 to 30.09.21
x)	NAAC ACCESSOR (Nominated by NAAC, Bengaluru)	Continuing from 14.01.20
xi)	Director, HRDC	from 01.09.21 to 31.08.23
xii)	Officer -in -Charge ,Website Center, FM Univ	from 29.4.09 to 23.7.14
xiii)	Coordinator, Institutional Development Plan [IDP] , Odisha Higher Education Program for Excellence & Equity [OHEPEE] (under World Bank& Higher Education Dept., Govt. of Odisha)	from 2.1.17 to 1.11.2018
xiv)	Member (VC's nominee), University Research Committee	from 10.8.14 to 15.03.18
xv)	Nodal Officer, NMEICT Project, Govt. of India	From 18.2.12 to 30.06.15
xvi)	Convener, University Discipline Committee	from 21.7.11 to 12.7.12
xvii)	Editor, ANVESA: ISSN No. -0974-715X Research Journal , FM University	from 01.9.11 to 12.7.12
xviii)	Editor, News Letter, FM University	from 01.9.11 to 17.07.14
xix)	Vice-President, Univ. Athletic Society	from 10.7.08 to 31.5.09
xx)	Dy. Director, CDCE (Centre of Distance & Continuing Education), FM Univ.	from 09.5.09 to 23.07.11

ADMINISTRATIVE EXPERIENCES : (COLLEGE LEVEL) :

Sl . No	Position	Year of Exp.
i)	Head of Department	4 years
ii)	Coordinator, Computer Education	5 years
iii)	Administrative Bursar	1 years
iv)	Accounts Bursar	4 years
v)	Academic Bursar	2 years
vi)	Exam-in –Charge	3 years
vii)	UGC – in- Charge	1years
viii)	NCC (Air Wing) Officer	11 years
ix)	Placement Officer	1 year

TEACHING EXPERIENCE : 35 Years 07 Months 07 Days

Sl. No.	Designation/Institution	From	To	Year of Exp.	Remark
1.	Lecturer in Physics Udala College, Udala	25.01.1988	16.07.1993	5 years 3 months	Appointed by Service Selection Board (SSB), Govt. of Odisha
2.	Lecturer in Physics Sr.Lecturer in Physics Maharishi College of Natural Law, Bhubaneswar	19.07.1993 25.01.1995	24.01.1995 30.06.2000	7 years	On Notification by Dept. of Higher Education , Govt. of Odisha.
3.	Sr.Lecturer in Physics P.N. (Autonomous) College, Khurda	06.07.2000	21.06.2001	1 year	On Notification by Dept. of Higher Education , Govt. of Odisha.
4.	Sr.Lecturer in Physics Reader in Physics Maharishi College of Natural Law, Bhubaneswar	27.06.2001 25.01.2003	24.01.2003 28.04.2008	6 years 10months	On Notification by Dept. of Higher Education , Govt. of Odisha.
5.	Reader in Physics F.M. University, Balasore	29.04.2008	25.05.2015	7 years 2 months	On Open Interview
6.	Professor of Physics F.M. University, Balasore	25.05.2015	31.08.2023	8 years 3 months 7 days	On Open Interview
7.	Adjunct Professor P.G. Dept. of Physics F.M. University Balasore, Odisha	08.09.2023	Continuing		

TEACHING SUBJECTS & COURSES TAUGHT :

M.Sc. (Physics & APAB) : Current Year: Condensed Matter Physics, Electronics,
Electrodynamics, Optoelectronics
Earlier Years : Mathematical Physics, Statistical Mechanics,
Fluid Dynamics
M.Phil. (Physics) : Research Methodology , Advanced Physics
Pre. Ph.D. (Course Work) : Research Methodology, Material Science

RESEARCH FIELDS : Experimental Material Science, Neural Network

RESEARCH PAPERS PUBLISHED :

- **JOURNAL PAPERS:** International – 34 (Scopus index 20 , Referred 14) ,
National –24 (all referred) , Total : 58
- **CONFERENCE PAPERS :** International - 18 , National – 38 , Total : 56

RESEARCH (Ph. D.) GUIDANCE :

- Ph.D. Awarded : 10
- Ph.D. Continuing : 02
- M.Phil. Awarded : 15

MEMBERS OF REGD. ACADEMIC , R & D BODIES :

1. Indian Meteorological Society (IMD), National body
2. Orissa Physical Society (OPS), State regional body
3. Australia X-ray Analytical Association (AXAA), International body
4. Academy of Microscope Science & Technology (AMST), National body
5. Polymer Processing Society (PPS), International body
6. Vice-President of Orissa Physical Society (OPS), State regional body (2018-20)

List of Students Awarded Ph.D. Degree : 10

- i) Mrs. M.H. Priyadarsini – Regd. No. Sc-Physics-02/2016(P) : Submitted on 07.08.2023 : Title of Research : "Studies of Transition Metal Compound containing Hybrid Nanocomposites for Super capacitor application"
- ii) Dr. Saswati Samanta – Regd. No. Sc-Physics-19/2010 (P): Awarded 2018 : Title of Thesis " Studies on synthesis, characterization and properties of value added materials derived from solid waste"
- iii) Dr. Benorita Prusty – Regd. No. Sc-Physics-08/2009(P) : Awarded 2017 : Title of Thesis "Synthesis and Characterization of Conducting Polymer-Carbonnanotube Composites for CNT- based Supercapacitor"
- iv) Dr. Jibanananda Mehena – Regd. No. Sc- I&CT-03/2013(P) : Awarded 2017 : Title of Thesis "Intelligent based Medical Image Segmentation using Soft Computing approach"
- v) Dr. Rakesh Mohan Pujahari – Regd. No. Sc-Physics-02/2013(P) : Awarded 2016 : Title of Thesis "Resistance dependence studies of Large Area Crystalline Silicon Solar Cells"
- vi) Dr. Minati Mishra - Regd. No. A- I&CT – 04/2006 : Awarded 2015(P) : Title of Thesis "Tamper Detection from Multi- resolution Digital Images"
- vii) Dr. Shantanu Kumar Biswal – Regd. No. Sc-Physics-20/2010(P) : Awarded 2014 : Title of Thesis "To Study the Physical and Kinematical Aspects of the Universe by constructing String Cosmological Models"
- viii) Dr. Prasanna Kumar Sahoo - Regd. No. Sc-Physics-11/2009(P) : Awarded 2014 : Title of Thesis "Studies on Conducting Polymers and their nanocomposites derived from substituted anilines"
- ix) Dr. Bijaya Kumar Parija - Regd. No. Sc-Physics-12/2009(P) : Awarded 2014 : Title of Thesis "Studies on Carbon Nanotube-substituted Polyaniline Composites : Spectral, Morphological, Mechanical and Electrical properties"
- x) Dr. Ashanta Ranjan Routray – Regd. No. Sc- I&CT-30/2008(P) : Awarded 2012 : Title of Thesis "An Artificial Neural Network Approach to Still Image Compression and Secured Transmission"

List of Students continuing Ph.D. work : 02

- i) Mr. Sanjit Kumar Rath – Regd. No. Sc-Physics-01/2016(P) : Continuing since 24.08.2015 : Title of Research : "Studies of Metallization and its impacts on the efficiency of Multi-crystalline Silicon Solar cell"
- ii) Mrs. Smita Samanta - Regd. No. Sc-Physics-01/2023(P) : Continuing since 30.08.2022 : Title of Research : "Investigation of microstructure, electrical and optical properties of doped rare-earth orthochromites $\text{RCrO}_3(\text{R}=\text{Nd}, \text{La})$ "

List of Students Awarded M.Phil. Degree (Guidance of Thesis) : 15

1. Mr. Chandra Sekhar Samal : Awarded 2021 : Title : “Review on the Theoretical aspects of Transport Properties of Graphene”.
2. Miss Alaka Priyadarsini Sendha : Awarded 2019 : Title “Synthesis and Characterization of Polymer-Metal Oxide Nanocomposites for Electrochemical Energy Storage Device Application”
3. Mr. Subhankar Sidhartha Sekhar Swain : Awarded 2018 : Title-“Study of Interactions of Liquid Mixures using Ultrasonic Interferometer”
4. Miss Diptimayee Jena : Awarded 2018 : Title-“Investigation of Structural and Optical Properties of Lead dope Tin dioxide Nanomaterials”
5. Miss Lima Misra : Awarded 2018 : Title-“Structural and optical property of different SnO Nanocrystals”
6. Mrs. Sasmita Sahu : Awarded 2017 : Title : Study of Solar Cell with its development and applications”
7. Mr. Sasanka Sekhar Pattnaik : Awarded 2016 : Title “Study of Energy Dispersive Spectrometer”
8. Miss Anchal Paramaguru : Awarded 2016 : Title “Study of Thermo Gravimetric Analyser”
9. Mr. Sapan Kumar Behera : Awarded 2015 : Title “Study of SEM with EDX and its application in the field of material science”
10. Miss Sangeeta Patra : Awarded 2015 : Awarded 2015 : Awarded 2015 : Title “Study of Scanning Electron Microscope”
11. Miss Jharanarani Mandal : Awarded 2015 : Title “Study of Fourier Transform Infrared Spectrometer”
12. Mr. Debi Prasada Mishra : Awarded 2014 : Title “Study on various techniques used in Supercapacitor”
13. Mr. Biswaranjan Dash :Awarded 2013 : Title “Synthesis, Structural and Electrical Characterization of Lead Free $K_{0.5}Na_{0.5}NbO_3$ Nanoceramic”
14. Mr. Biswaranjan Swain :Awarded 2013 : Title “Investigation of the structure and properties of $(K_xNa_{1-x})NbO_3$ – based piezoelectric ceramics using both conventional and high-throughput experimentation (HTE) methods”
15. Mr. Deepak Kumar Sahu : Awarded 2013 : Title “Study of Energy Bands of different materials used in Solar Cell”

BOOKS / JOURNALS / PROCEEDINGS Published / Edited :

Books Published :

1. **Book:** Digital Image Processing – Mehena, Adhikary and Routray; ISBN: 978-81-905015-9-9, Alok Publications, Bhubaneswar, First Edition, 2013.
2. **Book:** Passive Techniques of Digital Image Forgery Detection – Minati Mishra & Munesh Chandra Adhikary; ISBN 978-2-642-24819-6, Institute for Research and Development India(IRD India), Bhubaneswar, First Edition, 2015.

Editorial Assignments :

Published Edited Proceedings / Journals / Magazines:

1. Chief Editor : Anvesa – Multidisciplinary Research Journal of Fakir Mohan University, Vol. 12 (Issues 1 & 2) 2017, Vol. 13 (Issues 1 & 2) 2018 , Vol. 14 (Issues 1 & 2) 2019 , Vol. 15 (Issues 1 & 2) 2020 , Vol. 16 (Issues 1 & 2) 2021 , 5 volumes. ISSN-0974-715X
2. Chief Editor : Digital News Letter of Fakir Mohan University - August 2021 to July 2023 (Monthly) , 24 Issues.
3. Chief Editor : Vyasa Sambhar- Students Magazine of Fakir Mohan University, 2021, 2022, 2023 . 3 issues.
4. Chief Editor : Role of Microscopy and Allied Techniques in the Development of Multifunctional and Nanomaterials , (Proceedings of International Conference) November 2016, Published by Institute for Research and Development India.
5. Chief Editor : Ballistics-A Multidisciplinary Physical Science, (Proceedings of UGC sponsored National Seminar) February 2015, ISBN; 978-2-642- 24819-5 , Published by Institute for Research and Development India.
6. Editor in Chief : Nanoscience in Ballistics (Proceedings of UGC sponsored National Seminar) March 2014, ISBN-978-3-643-24819-0 I , Published by Institute for Research and Development India.
7. Chief Editor : ANVESA, Interdisciplinary Research Journal of F.M. University
8. Chief Editor : ANVESA, Interdisciplinary Research Journal of F.M. University , ISSN-0974-715X , Vol. 7 , Issue 1 , June 2012 published by F. M. University.
9. Chief Editor : Proceedings of National Seminar on “Innovative Fields of Ballistics and Applied Physics”- January 2012, ISBN-978-81-8424-746-6 , Published by Allied Publishers Pvt Ltd, New Delhi.
10. Editor : FM University NewsLetter , Volume 5, (Issue 1, 2, 3), 2012.

11. Editor : FM University NewsLetters, Volume 4, Issue 1 & 2, 2011.
12. Chief Editor : ANVESA, Interdisciplinary Research Journal , ISSN-0974-715X , Vol. 6 , Issue 1 & 2 , December 2011 published by F. M. University.
13. Chief Editor : Proceedings of National Seminar on “Recent Trends of Ballistics and Material science”- November 2010.

OTHER ACADEMIC ASSIGNMENTS / ACHIEVEMENTS :

1. Nominated by Hon’ble Minister of Youth Affairs & Sports , Govt. of India, New Delhi as a Member of Academic Council of Lakshmibai National Institute of Physical Education (LNIPE), Gwalior for a period of two years 2010-2012.
2. Nominated by DRDO-PEACE, Ministry of Defence, Govt. of India, New Delhi as an External Member for Assessment Board-2008 for PXE, Chandipur.
3. Nominated by DRDO-CEPTAM, Ministry of Defence, Govt. of India, New Delhi as an External Member for Assessment Board-2010 for PXE & ITR, Chandipur.
4. Nominated by DRDO-CEPTAM, Ministry of Defence, Govt. of India, New Delhi as an External Member for Assessment Board-2011 for PXE & ITR , Chandipur.
5. Nominated by DRDO-CEPTAM, Ministry of Defence, Govt. of India, New Delhi as an External Member for Assessment Board-2012 for PXE , Chandipur.
6. Awarded “The Best Citizens of India Award 2013” by International Publishing House, New Delhi for achievements in education for last 25 years of services.
7. Nominated by DRDO-CEPTAM, Ministry of Defence, Govt. of India, New Delhi as an External Member for Assessment Board-2013 for PXE , Chandipur.
8. Nominated by DRDO-CEPTAM, Ministry of Defence, Govt. of India, New Delhi as an External Member for Assessment Board-2015 for PXE , Chandipur.
9. Nominated by DRDO, Govt. of India, as an External Member for JRF Assessment Board-2016 for ITR , Chandipur.
10. Nominated by Odisha Public Service Commission (**OPSC**), Govt. of Odisha , Cuttack as an Expert Member of Selection Board-2015 for Home Dept, / Education Dept.
11. Nominated by DRDO,_CEPTOM, Ministry of Defence ,Govt. of India, as an External Member for Assessment Board-2017 for ITR , Chandipur.

UGC Orientation / Refresher Courses completed :

Sl. No.	Course	Theme / Topic	Organization	Duration	
				From	To
1.	Orientation Course	Physics	Academic Staff College, Utkal University	14.11.1990	11.12.1990
2.	Refresher Course	Quantum Mechanics and Applications	PG Dept of Physics Utkal University	04.09.1990	02.10.1990
3.	Refresher Course	Electronics and Instrumentation	PG Dept of Physics Utkal University	22.02.1993	21.03.1993
4.	Refresher Course	Computational Physics	PG Dept of Physics Utkal University	02.09.2003	22.09.2003
5.	Refresher Course	Gravitation and Cosmology	PG Dept of Physics Utkal University	07.11.2005	27.11.2005

ACADEMIC PROGRAMMES COODINATED :

As Director, Humane Resource Development Centre (HRDC) of Fakir Mohan University , the Short Term Course / Faculty Development Programme conducted in collaboration with P.G.Departments.

1. STC Topic : “Research and Publication Ethics”, 15-19 December 2021 , IDP, OHEPEE, Govt. of Odisha. & HRDC.
2. FDP Topic : “Advances and Challenges in Physics”, 13-18 December 2021, P.G. Dept. of Applied Physics and Ballistics & HRDC.
3. FDP Topic : “Software Tools for Academicians”, 13-18 December 2021, P.G. Dept. of Information and Communication Technology & HRDC.
4. FDP Topic : “Innovations in Teaching, Learning and Assessment”, 13-18 December 2021, P.G. Dept. of Education & HRDC.
5. FDP Topic : “Geospatial Technology: from Basics to Business”, 13-18 December 2021, P.G. Dept. of Geography & HRDC.
6. FDP Topic : “Recent Advances in Political Science and International Relations”, 13-19 December 2021, P.G. Dept. of Social Science & HRDC.
7. Orientation Programme on : “Academic Administration: Research Methodology and Project Writing”, 29 September 2021, IDP, OHEPEE, Govt. of Odisha & HRDC.

PROFESSIONAL TRAINING COURSES :

SL. No	Course	Organization	Year
i)	Computer Appreciation & Programming	Orissa University of Agriculture & Technology, Bhubaneswar	1985
ii)	Programming Language course (BASIC , COBOL , FOTRAN)	Orissa computer Application center (Govt. of Orissa) Bhubaneswar	1986
iii)	Computer Literacy and Studies in Schools	Computer Centre Utkal University , Bhubaneswar	1988
iv)	M.C.A Teacher Training Programme	Indian Institute of Technology , Kharagpur	1990
v)	Intensive Course on Statistical Methods in weather Analysis & Prediction	Indian Institute of Technology , New Delhi	1996
vi)	UGC Computer Training Programme	Utkal University , Bhubaneswar	2000
vii)	Training on Remote Sensing and GIS Applications	Orissa Remote Sensing Application Centre , Govt. of Orissa , Bhubaneswar	2000
viii)	Programming Language Course (C , C ⁺⁺ , ORACLE , VISUAL BASIC, JAVA)	I.C.S.S , Bhubaneswar	2001
ix)	Global Skills Enhancement Programme	Infosys , Bhubaneswar	2007
x)	Leadership Development Training	Lal Bahadur Sastri Academy of Administration (LSBNAA), Mussoorie, Govt. of India	2011
xi)	NAAC Assessor Orientation Programme for Dual Mode University	NAAC, An autonomous body of UGC, Bengaluru	2020

RESEARCH PAPERS PUBLISHED :

International .:

1. M.H. Priyadarsini, **M.C. Adhikary**, P. Jena , R.M. Pujahari : “Copper Doped PPy/MWCNT Nanocomposite Materials for Supercapacitor Application” : Journal of Scientific Research (JSR), Jan 2023, Vol. 15, Issue 1, pp. 43-53, ISSN : 2070-0237 (print) , 2070-0245 (online), doi:http://dx.doi.org/10.3329/jsr.v15i1.59397 , www.banglajol.info/index.php/JSR , UGC Journal no. 63975
2. P. Jena, N. Naresh, N. Satyanarayana, P.K. Patro, R. Biswal, **M.C. Adhikary** :
“Electrochemical performance of SnO₂ rods and SnO₂/rGO , SnO₂/MWCNTs composite materials as an anode for lithium-ion battery application-A comparative study” , Journal Mater. Sci.: Mater.Elect. 32(6), 7619-7629 (2021), Scopus Index, **Impact Factor : 2.478**
2. **Munesh Chandra Adhikary** , M. H. Priyadarsini , Sanjit Kumar Rath & Chapal Kumar Das
“3D porous NiMoO₄ nanoflakes arrays for advanced supercapacitor electrodes” , Journal Nanoparticle Research , # Springer Science , September 2017 , 19:314 , p.1-8, ISSN : 1388-764 int), 1572-896X (web).**Impact Factor : 2.278**
3. M.H. Priyadarsini, **M.C. Adhikary**, C.K. Das : “Studies of Hybrid Nanocomposite containing rGO/Ni(OH)₂/PPy for Supercapacitor Application” : International Journal of Current Advanced Research (IJCAR), June 2018, Vol. 7, Issue6(H), pp. 13585-13588, ISSN O: 2319-6475, **Impact Factor: 6.614**
4. Saswati Samanta, Diptipriya Sethi, Biswal R., Sakthivel R. and **Adhikary M.C.** “Synthesis and Characterization of SrFe₁₂O₁₉ derived from Iron Ore Tailings”, International Journal of Current Advanced Research (IJCAR), Volume 6, Issue 10, October 2017, page. 6863-6867 , UGC Journal No. 43892 , ISSN(Print): 2319- 6505, ISSN (Online): 2319- 6475,
Impact Factor SJIF : 5.995
5. **M.C. Adhikary**, MH. Priyadarsini, C.K. Das : “TiO₂ coated MWCNT decorated by Fe₃O₄ nanoparticle as electrode material for Supercapacitor Application” , International Journal of Recent and Innovation Trends in Computing and communication, Vol-5, No-4 , April 2017 , p.43-46, ISSN: 2321-8169.
Impact Factor SJIF : 5.837

6. **M.C. Adhikary** , C.K. Das, B. Prusty, and S. Kalra : “Chromium Doped Polyaniline / Mwcnts Nanocomposite for Supercapacitor Electrode Materials”, International Journal of Engineering Sciences & Research Technology, 4(4), April 2015 , ISSN: 2277-9655.

Impact Factor : 2.114

7. B. Prusty, **M.C. Adhikary** and C.K. Das : “Supercapacitor Electrode Material Based on Nickel Vanadium Oxide”, American Chemical Science Journal 6(2): 91-95, February 2015, Article no.ACSj.2015.040 , ISSN: 2249-0205.

Citation : 01

8. **M.C. Adhikary** and R. M. Pujahari ,”Comparison of 2D And 3D Screen Printed Metallization on Multicrystalline Silicon Solar Cells”, Journal of Energy and Power Sources ,www.ethanpublishing.com, September 2014, vol-1, No-3, page 141-153, ISSN 2333-9136 (print) ISSN 2333-9144.

9. B. Prusty, **M.C. Adhikary** and C.K. Das : Synthesis of NiS anchored Graphene nanocomposites : High Performance Supercapacitor Electrode Material, International journal of Current Research, vol 6, Issue 07. p.p. 7448-7452, July 2014, ISSN: 0975-833X.

Impact Factor: 3.689 , Citation : 03

10. R.M. Pujahari and **M C Adhikary** : .“Resistance Dependent Studies of Large Area Multicrystalline Silicon Solar Cells, ISST Journal of Applied Physics. Vol-5 No.1 (January-June 2014). p.p. 7-11 (ISSN:0976-903X)

11. M. Pujahari and **M C Adhikary** : “A Nanoscale Analysis of Surface Textured Multicrystalline Silicon Solar Cells by Atomic Force Microscope”, Journal of Energy and Power Engineering , NY 10989, USA (accepted and to be published in Volume 10 Number 8 in August, 2016), ISSN: 1934-8975; <http://www.davidpublisher.com>

12. **M.C. Adhikary**, M. H. Priyadarsini, S. K. Rath and C. K. Das : “High Performance Supercapacitor Electrode based on Reduced Graphene Oxide / Ni(OH)₂ Nanocomposite”, Global Journal of Engineering Science and Researches, Vol-3 Issue-6, June 2016, p.p. 151-154, ISSN 2348- 8034, DOI-10.5281/zenodo.56013

13. M. Panigrahi, B. Prusty and **M. C. Adhikary** : “ Investigation of electrochemical capacitance of core-shell structured poly (m-Aminophenol) (PmAP)/MoO₃ composite” Advance Physics Letter: Vol_3, Issue_3, 2016, p.p. 17-23, ISSN (Print) : 2349-1094, ISSN (Online) 2349-1108 .

14.M. Panigrahi and **M. C. Adhikary** : Surfactant Assisted Hydrothermal Synthesis of TiO₂ Nano-spindle and their Characterizations, Advance Physics Letter: Vol_2, Issue_2, 2015, p.p.12-15 , ISSN (Print) : 2349-1094, ISSN (Online) 2349-1108 .

15. T.K. Biswal, S. Sarkar and **M.C. Adhikary** : Feasibility Study of Virtual Target Scoring using High-Speed Imaging Techniques; Propellants, Explosives, Pyrotechnics (PEP), Official Journal of International Pyrotechnics Society, January 2013, DOI: 10.1002/prep.201200161, ISSN 1521-4087.

16. J .Mehena and **M. C. Adhikary** : Medical Image Edge Detection Based on Neuro-Fuzzy Approach, World Academy of Science, Engineering and Technology , International Journal of Computer, Electrical, Automation, Control and Information Engineering Vol:10, No:1, 2016, p.229- 232 , scholar.waset.org/1999.4/10004525

Citation : 01

17.J .Mehena and **M. C. Adhikary** : Medical Image Segmentation and Detection of MR Images Based on Spatial Multiple-Kernel Fuzzy C-Means Algorithm, World Academy of Science, Engineering and Technology , International Scholarly and Scientific Research & Innovation , Vol:9 , No.6, September 2015, P.1515-1519,scholar.waset.org/1999.0/10002499.

Citation: 01

18. J.Mehena and **M. C. Adhikary** : Medical Image Edge Detection Based on Soft Computing Approach, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 3, Issue 7, July 2015, p. 6801-6807, DOI: 10.15680/ijircce.2015. 0307033, ISSN(Online): 2320-9801, ISSN (Print): 2320-9798.

Impact Factor : 5.618 Citation: 02

19.J. Mehena and **M.C. Adhikary** : Brain Tumor Segmentation and Extraction of MR Images Based on Improved Watershed Transform, Volume 17, Issue 1, Ver. 2 (Jan – Feb. 2015), PP 01-05, IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, DOI: 10.9790/0661-17120105.

Impact Factor : 1.213 Citation: 09

20. M. Mishra and **M.C. Adhikary** ,” Detection of Clones in Digital Images”, International Journal of Computer Science and Business Informatics (IJCSBI), January 2014. ,Page : 91-102, Vol. 9, No.1 . (ISSN: 1694-2108). **Citation: 04**
21. S. Bhoi and **M.C Adhikary** , “Bayesian Classification (Gender) Using Simulation Technique”, International Journal on Advanced Computer Theory and Engineering (IJACTE), September 2014 Volume -3, Issue -4, ISSN (Print): 2319-2526.
22. Minati Mishra and **M.C. Adhikary** ,” An Easy yet Effective Method for Detecting Spatial Domain LSB Steganography”, International Journal of Computer Science and Business Informatics (IJCSBI), Page : 1-12, ISSN: 1694-2108 | Vol. 8, No.1 . December 2013.
23. B.K. Parija, **M.C. Adhikary** and others : Synthesis and Characterization of poly (Flouro aniline) / Mwcnt Composites, International Journal of Engineering and Science (IJES) , January 2013, Vol 2, Issue 01, Page 133-140, ISSN: 2319-1813, ISBN: 2319-1805.
Citation: 01
24. P.K. Sahoo, **M.C. Adhikary** and others : Synthesis and Characterization of poly (0-methyl aniline)-MMT(Cloisite30B) nanocomposites for Corrosion Protection, International Journal of Engineering and Science (IJES) , January 2013, Vol 2, Issue 01, Page 141-148, ISSN: 2319-1813, ISBN: 2319-1805. **Citation: 01**
25. Minati Mishra and **M.C. Adhikary** ,”Digital Image Tamper Detection Techniques –A Comprehensive Study”, International Journal of Computer Science and Business Informatics (IJCSBI), ISSN 1694-2108, Vol.2, No.1, June 2013. **Citation : 24**
26. S.K. Biswal, K.L. Mahanta, S.K. Agarwalla , **M.C. Adhikary** : String Cosmology in Brianchi type –VI0 Space-Time, IOSR Journal of Applied Physics (IOSR-JAP), November-December 2012, Vol 2, Issue 4, P. 18-21, ISSN2278-4861.
27. M.Mishra, P.Mishra, S.Kumar and **M.C. Adhikary** : Image Encryption using Fibonacci-Lucas Transformation, International Journal on Cryptography and Information Security (IJCIS), Vol 2, No. 3, September 2012. **Citation : 33**

28. S.K. Biswal, S.K. Agarwalla , **M.C. Adhikary** : Five dimensional Bianchi type-V cosmological models described by a binary mixture of perfect fluid and dark energy with Λ -term , Astrophysics and space science , Springer Science, June 2012, DOI 10.1007 / s10509-012-1040-7, ISSN0004-640X.

29. K.L. Mahanta, S.K. Biswal, P.K.Sahoo, **M.C. Adhikary** : String Cloud with Quark Matter in Self-creation Cosmology, International Journal of Theoretical Physics, Springer Science, December 2011, s10773-011-1031-4.

Citation: 22

30. A.R. Routray & **M.C. Adhikary** : An Improved Neural Image Compression Approach with Cluster Based Preprocessing , International Journal of Computer Science and Information Technology (IJCSIT) Vol 3, No 6, Dec 2011 DOI : 10.5121/ijcsit.2011.3614 183.

31. **M.C. Adhikary** & Others : The Thermochemical studies of CdCl_2 and CdBr_2 in Methanol+water,Ethanol+water,Dioxane+water and Glycol+water mixture at 300,350 and 400 C, International Journal of Chemical Sciences:Jr. of UltraChemistry, Sept-December 2011,Vol 7,No. 3 P-477-482, ISSN 0973-3450. **Citation : 01**

32. J. Nayak, A.R. Routray & **M.C. Adhikary** : Classification of Trees by Pattern Recognition, International Journal of Computer Applications, April 2011, Vol 19 ,No 3 , P-10-14

33. A.R. Routray & **M.C. Adhikary** : Image Compression based Wavelet and Quantization with Optimal Huffman Code, International Journal of Computer Applications, August 2010, Vol 5 ,No 2 , P-6-9. **Citation: 02**

34. C.Das, P.K.Panda & **M.C. Adhikary** : Properties of Hot Neutron Star , International Journal of Modern Physics D , World Scientific, August 2003 , Vol 12, No 7, P-1241-1254.

National :

35. R.M. Pujahari, S.K. Ratha, C.K. Das, **M.C. Adhikary** : “Optimised Patterns for Square Solar Cells with Tabs for better Efficiency” : Orissa Journal of Physics (OJP) , February 2020, vol. 27, no. 1, pp. 9-16, ISSN 0974-8202.
36. R.M. Pujahari, S.K. Ratha, C.K. Das, **M.C. Adhikary** : “Analysis of Metal nano-particle embedded silicon nitride thin-films for anti-reflection coating (ARC) in Solar Cell applications” : Orissa Journal of Physics (OJP) , February 2019, vol. 26, no. 1, pp. 9-16, ISSN 0974-8202.
37. S. K. Rath, R.M. Pujahari, C. K. Das and **M. C. Adhikary** : “Enhancement of efficiency in Large area Multicrystalline Silicon Solar Cells by Metallization and Texturization” , (Odisha Journal of Physics (O.J.P.), February , 2018, Vol 25, No 1, P. 77-86, (ISSN 0974- 8202).
38. Saswati Samanta, R. Sakthivel and **M.C. Adhikary** : “Nanonickel derived from nickel spent catalyst – its synthesis and characterization”, Advance Physics Letter ,IRD India publication, volume 1, Issue 2, 2014, page.70-71 , ISSN (Print) : 2349-1094, ISSN (Online) : 2349-1108
39. R.M. Pujahari and **M.C. Adhikary**: Ohmic resistance losses and their impact on efficiency in case of multicrystalline silicon solar cell , O.J.P. , August 2015, Vol 22, No 2, P. 219-228, (ISSN 0974- 8202).
40. R.M. Pujahari and **M.C. Adhikary**: Nanotechnology and Photovoltaics , O.J.P. ,February 2015, Vol 22, No 1, P. 27-38, (ISSN 0974- 8202).
41. M.K. Das and **M.C. Adhikary** : Modelling Artillery Projectile Sound Energy, O.J.P. ,February 2015, Vol 22, No 1, P. 09-16, (ISSN 0974- 8202).
42. K.K. Chand and **M.C. Adhikary**: Ballistics Concepts and Connections with Applied Physics , O.J.P. ,February 2015, Vol 22, No 1, P. 27-38, (ISSN 0974- 8202).
43. M.K. Das , **M.C. Adhikary** and Chand K.K.: Physical and Mathematical aspects of statistical energy analysis, O.J.P. ,February 2014, Vol 21, No 1, P. 83-96, (ISSN 0974- 8202).
44. Minati Mishra and **M.C. Adhikary** : Digital Image Tampering Detection through Overlapped Block Matching and DCT, Anvesa, Dec 2013, Vol 8, No- 1&2, P- 94-102, ISSN 0974-715X.
45. M.K. Das , **M.C. Adhikary** , K.K. Chand : Modelling Noise Phenomenon for Military Environmental Problems , O.J.P. (ISSN 0974-8202), February 2013, Vol 20, No 1, P. 155-168. ISSN 0974-8202
46. **M.C. Adhikary** and R. M. Pujahari : Surface Analysis of NaOH-NaOCl Textured Multicrystalline Silicon Solar Cell, Anvesa, (ISSN 0974-715X) Dec 2011, Vol 7, No- 2, P- 43-47.

47. M.V. Bhaskarachary, S. Sarkar & **M.C.Adhikary** : Online Bias Correction with respect to the Reference using Kalman Filter, O.J.P.(ISSN 0974-8202), August 2012, Vol 19, No 2, P. 177-186.
48. **M.C. Adhikary** : Innovations : From Principle of Throw to Modern Ballistics, Science Horizon, Odisha Bigyan Academy, May 2012, Vol. 2, Issue. 5 , p. 19-24.
49. M.Mishra, P. Mishra and M.C. Adhikary : Digital Image Data Hiding Techniques : A Comparative Study, Anvesa, (ISSN 0974-715X) Dec 2012, Vol 7, No- 2, P- 105-115.
Citation : 08
50. B.K.Parija, **M.C.Adhikary** & others : Synthesis and Characterization of Poly (Flouroanline)/ MWCNT Composites for their electrical and optical properties , Anvesa, (ISSN 0974-715X) Dec 2011, Vol 6, No- 1&2, P- 34-40.
51. M.Mishra, A.R.Routray & **M.C.Adhikary** : Secured Steganography with Image Encryption through Chaotic Mapping , Anvesa, (ISSN 0974-715X) Dec 2011, Vol 6, No- 1&2, P- 07-11.
52. B.Prusty, B.K. Parija & **M.C.Adhikary** : Alternative Storage for Portable Devices Supercapacitor, O.J.P.(ISSN 0974-8202), August 2010, Vol 17, No 2, P. 237-245.
53. A.R. Routray & **M.C. Adhikary** : An Encrypted Optical Color Image Compressor, O.J.P.(ISSN 0974-8202), August 2010, Vol 17, No 2, P. 221-226.
54. M.P. Dash, **M.C.Adhikary** & others : Carbon Nanotubes and Nanocomposites based on Conducting Polymers for Electronic Applications, Anvesa, (ISSN 0974-715X) Dec 2009, Vol 4, No- 2, P- 01-14.
55. A.R. Routray, **M.C.Adhikary** & A.N.Misra : Commonly used tools in Computational Biology, Anvesa, (ISSN 0974-715X) Dec 2009, Vol 4, No-2.
56. K.K. Chand , **M.C. Adhikary** & others : Modelling dynamics of variable mass systems – Rocket Trajectory, O.J.P.(ISSN 0974-8202), vol 17, No 1, 163 –176, February 2010.
57. K.K. Chand & **M.C. Adhikary** : Modelling and Simulation based applied physics and ballistics –a case study,O.J.P.(ISSN 0974-8202), vol 16, No 1, 181 –194, February 2009.
58. **M.C Adhikary** : Study of Periodicity of Metballistic Data using Fractal Geometry – Anvesa, (ISSN 0974-715X) Dec 2008, Vol 3, No-2, P-41-43.

CONFERENCES / SEMINARS / PROCEEDINGS PARTICIPATED:

International :

1. **M.C. Adhikary**, S. K. Rath , M. H. Priyadarsini and C. K. Das : Presented a paper on “Effect of mixing sequence on the fibrillation of thermo tropic liquid crystalline polymer in the blend system in presence of graphene” , at International PPS Europe Africa Conference-2017 organized by Polymer Processing Society (PPS2017) at Dresden, Germany , 26-29 June 2017.
2. C. K. Das, **M. C. Adhikary**, S. Friedrich, and M. Gehde : Presented a paper on “Effects of Vibration welding process parameters on the weldability of the thermoplastics” , at International PPS Europe Africa Conference-2017 organized by Polymer Processing Society (PPS2017) at Dresden, Germany , 26-29 June 2017.
3. C.K. Das, M.H. Priyadarsini, S.K. Rath , M.C. Adhikary “Effects of mixing sequence on the fibrillation of LPC in LPC/nylon blends in presence of modified MWCNT” :: 4th International Conference, Kathamandu Symposia on Advanced Materials 2018 (KaSAM-2018) , 26-29 October 2018, Kathamandu, Nepal.
4. M.H. Priyadarsini, C.K. Das, M.C. Adhikary : “Copper doped polypyrrole / Carbon Nanotube nanocomposition for Supercapacitor Applications” : Internatioanl Seminar on – Emerging Trends in Physics & Applications (ISETPA-2019) & 36th Convention of Orissa Physical Society, 2-4 February 2019, PMEC, Berhampur, India.
5. **M.C. Adhikary**, M.H. Priyadarsini, S.K. Rath & C.K. Das : Presented a paper on “Effects of 1D and 2D C- Nanofiller as Compatibilisers to develop Flexible Thermoplastics Nano Composites” has been accepted for presentation in the International conference KaSAM-2016 (Kathmandu Symposia on Advanced Materials) organized by Pokhara University , Nepal at Pokhara, Nepal , 17-20 October 2016 .
6. R.M. Pujahari, **M.C. Adhikary**, S.K. Rath : Presented a paper on “A chlorine based surface texturization process in comparision with acid texturization of multicrystalline silicon solar cell” at International Conference on “Role of Microscopy and Allied Techniques in the Development of Multifunctional and Nanomaterials” (ICMAMN) followed with 3rd Annual Convention of Academy of Microscopy Science and Technology (AMST) , organized by Dept. of Applied Physics and Ballistics, F.M., University, Balasore , 26-28 November 2016.
7. **M.C. Adhikary**, M. H. Priyadarsini, S. K. Rath and C. K. Das : Presenting as Invited Speaker on “Effects of Nanofillers on the compatibilisation of incompatible polymer blends- Development of flexible Nanocomposites” , International conference on Energy, Functional materials and Nanotechnology (ICEFN-2016) , Kumaun University, Nainital, Uttarakhand, 27-29 March 2016.

8. **M. C. Adhikary** and R.M. Pujahari : Presented an oral paper paper on “Comparision of 2D and 3D Screen Printed Metallization on Multicrystalline Silicon Solar Cell”, International Congress on Renewable Energy (ICORE-2013), ISBN: 978-93-82880-80-6, KIIT University, Bhubaneswar, Organised by Solar Energy Society of India, November 27-29, p.181-186, 2013.
9. **M.C. Adhikary**, B. Prusty & A. Panigrahi : Presented an oral paper paper on “Characterization of CNT based Supercapacitor Electrode developed on First Principle Growth”, Proceedings of the International Conference MSAT-7 , Bangkok, Thailand , 07-08 June 2012.
10. **M.C. Adhikary** & A. Panigrahi : Presented an oral paper paper on “Modifying the Ferroelectric Properties of Ba₅HoTi₃V₇O₃₀ by making Solid Solution with BiFeO₃”, Proceedings of the International Conference MSAT-7 , Bangkok, Thailand , 07-08 June 2012.
11. **M.C. Adhikary**, B.Gupta & S.Pattanaik : Presented an oral paper paper on “Physico-Chemical Characterization of Cementitious Materials Derived from Coal Combustion Byproduct: An XAFS and X-ray Rietveld Study” , Proceedings of the International AXAA Workshop & Conference, Sydney, Australia, 06-11 February 2011.
12. M.P.Dash, **M.C. Adhikary** & others : Presented a paper on “Synthesis and Characterization of MWCNT / Poly Nitroaniline Conducting Polymer Composites for Application in Electronic Devices” , Proceedings of International Conference on Advancements in Polymeric Materials , CIPET, Bhubaneswar, 20-22 February, 2010.
13. Saswati Samanta, Diptipriya Sethi, R. Biswal , R. Sakthivel and **M.C . Adhikary** : presented a paper on “Synthesis and Characterization of SrFe₁₂O₁₉ derived from Waste” , at International Conference on Advanced Engineering Functional Materials -2017 organized Gandhi Group of Institutions (GGI) , Gunupur and Biju pattnaik University of Technology (BPUT), Rourkela held at GITA, Bhubaneswar during 21-23 September 2017.
14. M.H. Priyadarsini, Sunita Behera, **M.C. Adhikary**, C.K. Das: presented a paper on “2D carbonaceous nanofiller as compatibiliser for incompatible polymer blends development of flexible nanocomposites” , at International Conference on Advanced Engineering Functional Materials -2017 organized Gandhi Group of Institutions (GGI) , Gunupur and Biju pattnaik University of Technology (BPUT), Rourkela held at GITA, Bhubaneswar during 21-23 September 2017.
15. S. K. Rath, **M. C. Adhikary**, R. M. Pujahari, C. K. Das: presented a paper on “Efficiency growth in Chlorine based alkaline etched mC-Si solar cells” , at International Conference on Advanced Engineering Functional Materials -2017 organized Gandhi Group of Institutions (GGI) , Gunupur and Biju pattnaik University of Technology (BPUT), Rourkela held at GITA, Bhubaneswar during 21-23 September 2017.
16. R.M. Pujahari, **M.C. Adhikary** and S.K. Ratha : presented a paper on “2D and 3D screen printed metallization a new innovative approach for multicrystalline silicon cell”,

International Conference on Science & Engineering of Materials (ICSEM-2018) organized by Sharada University, New Delhi during 6-8 January 2018.

17. M.H. Priyadarshini , **M.C. Adhikary** and C.K. Das : presented a paper on “Utilization of HNT as compatibiliser for incompatible polymers to develop flexible nanocomposites”, International Conference on Science & Engineering of Materials (ICSEM-2018) organized by Sharada University, New Delhi during 6-8 January 2018.
18. C.K. Das , S.S. Kalra and **M.C. Adhikary**: presented a paper on “Development of SWCNTs and spinel ferrite nanocomposites for microwave absorption application”, International Conference on Science & Engineering of Materials (ICSEM-2018) organized by Sharada University, New Delhi during 6-8 January 2018.

National :

19. Best Poster Award : at Odisha Research Conclave (ORC-2021) : “Development of electrode materials and its composites with a suitable conducting medium for high performance lithium-ion-batteries”, Paramananda Jena, M.C. Adhikary, R. Biswal, jointly organized by Odisha Higher Education Council and Utkal University.
20. S. K. Rath, R. M. Pujahari, C. K. Das, **M. C. Adhikary** : Presented a poster on “Efficiency growth in Chlorine based alkaline etched mC-Si solar cells” in National Seminar organized by Orissa Physical Society , B.J.B. College ,Bhubaneswar, 10- 11 February 2018.
21. Saswati Samanta, R. Sakthivel and **M.C. Adhikary** : presented a paper on .“Synthesis and Characterization of Neodymium Ortho-Ferrite (NdFeO_3) nano- particles derived from Neodymium Oxide (NdO_3)” , at UGC sponsored National Seminar on “Recent Trends in Physics” held at Maharishi College of Natural law, Bhubaneswar in collaboration with Institute of Physics (IOP), Bhubaneswar during 07-08 January 2017.
22. M.H. Priyadarsini, **M.C. Adhikary**, C.K. Das: presented a paper on “Studies of transition metal compound containing hybrid nanocomposite for supercapacitor application” at UGC sponsored National conference on Recent Developments in Nuclear and Material Science , (RDNMS) organized by Dept. of Applied Physics and Ballistics , F.M. University, Balasore, 25-26 March 2017.
- 23.K.K. Chand, R. Appavuraj and **M.C. Adhikary**, presented a paper on “Armours for Ballistics materials: Concepts, Evaluations and Applications in Defence”, at National Conference on Advanced Engineering Materials organized by Gandhi Institute of Engineering and Technology , Gunupur during 23-24 July 2016.
- 24.**M.C. Adhikary** and B. Prusty : Characterization of CNT based Supercapacitor Electrode developed on First Principle Growth, National Seminar on Ballistics-A Multidisciplinary Physical Science, APAB Dept, F.M. University, 13-14 February 2015 (32nd Annual Convention of Orissa Physical Society).

25. A.K. Rath, M.K. Panigrahi and **M.C. Adhikary** : Case Studies of Silicon Solar PV System, National Seminar on Ballistics-A Multidisciplinary Physical Science, APAB Dept, F.M. University, 13-14 February 2015 (32nd Annual Convention of Orissa Physical Society).
26. **M.C. Adhikary** and S.K. Biswal : Bianchi Type-IX Cosmological Universe and Dark Energy, participated in National Seminar on Recent Advances in Physics organized by Berhampur University , Berhampur, in collaboration with Institute of Physics, Bhubaneswar , 5 May 2014.
27. **M.C. Adhikary** , S.K. Agarwalla and S.K. Biswal : Higher Dimensional Cosmological Models in Lyra Manifold, National Seminar on Nanoscience in Ballistics, APAB Dept., F.M. University, Balasore, 7-8 March 2014, Page.12-18, ISBN 978-3-643-24819-01
28. **M.C. Adhikary** and R.M. Pujahari : Resistance Dependent Studies of Large Area Multicrystalline Silicon Solar Cells, National Seminar on Nanoscience in Ballistics, APAB Dept., F.M. University, Balasore, 7-8 March 2014, Page.12-18, ISBN 978-3-643-24819-01
29. M.K. Das , **M.C. Adhikary** , K.K. Chand : Physical and Mathematical aspects of Statistical Energy analysis , participated in National Seminar on Recent Trends in Condensed matter Physics, organised by Orissa Physical Society , S.O.A. University, Bhubaneswar, 8-9 February 2014.
30. M. Panigrahi and **M.C. Adhikary** : Synthesis and characterizations of amorphous TiO₂ nanoparticles, presented in UGC sponsored National Seminar on Nanoscience in Ballistics organized by PG dept. of Applied Physics & Ballistics, F.M. University, Balasore, 7-8 March 2014. Page.72-78, ISBN 978-3-643-24819-01
31. D.K. Sahu and **M.C. Adhikary** : Participated in Poster Presentation at National Seminar on Sensor and Sensing System for Test Characterization of Food and Agro Produces organised by Material Science Center, Indian Institute of Technology, Kharagpur (W.B.), 09-10 May 2013.
32. M.K. Das , **M.C. Adhikary** , K.K. Chand : Modelling Noise Phenomenon for Military Environmental Problems , participated in National Seminar on Recent Trends in Laser and Photonics (RTLP) organised by Orissa Physical Society , Ravenshaw University , Cuttack, 9-10 February 2013.
33. A.R. Routray, J. Nayak and **M.C. Adhikary** : Modeling Wind Speed Forecast based on back Propagation Neural Network , UGC sponsored National Seminar on Innovative Fields of Ballistics and applied Physics organized by PG Dept. of Applied Physics & Ballistics, F.M. University, Balasore, 21 January 2012. Page.126-129, Publication by Allied Publishers Private Ltd., New Delhi. ISBN 978-81-8424-746-6.

34. T.K. Biswal and **M.C. Adhikary** : Measurement of Consistency and Accuracy through Virtual Scoring using High-Speed Imaging Technique , UGC sponsored National Seminar on Innovative Fields of Ballistics and applied Physics organized by PG Dept. of Applied Physics & Ballistics, F.M. University, Balasore, 21 January 2012. Page.09-14, Publication by Allied Publishers Private Ltd., New Delhi., ISBN 978-81-8424-746-6.
35. S.Samanta, A.Pal, D.P. Sethi, D.Behera, R. Sakthivel and **M.C. Adhikary** : Synthesis and Characterization of NanoNickel Derived from Nickel Spent Catalyst, Proceedings of National Seminar on Waste to Wealth , Geological Society, Bhubaneswar, 14-15 December 2012.
36. S.B. Bhoi and **M.C. Adhikary** : Application of Simulation Technique in Data Mining Classification, Proceedings of National Seminar on Dynamics and Projects of Data Mining (DPDM-2012) , Modern Engineering and Management Studies, Balasore , 30 September 2012.
37. A.R. Routray and **M.C. Adhikary** : Pattern Recognition and Data Mining Classification , Proceedings of National Seminar on Dynamics and Projects of Data Mining (DPDM-2012) , Modern Engineering and Management Studies, Balasore , 30 September 2012.
38. A.R. Routray and **M.C. Adhikary** : A Soft Computing Technique for Image Compression : SVMHAAR, Proceedings of National Seminar on Information Technology: Emerging Paradigm in Development, PG Dept of I&CT, F.M. University, Balasore, 7 th February 2012.
39. **M.C. Adhikary** : Introducing MATLAB Language in Artificial Neural Network, Proceedings of National Seminar on Rough Set Theory and Artificial Neural Network, Seemanta Mahavidyalaya, Jharpokharia, Mayurbhanj, 27-28 February 2012.
40. **M.C. Adhikary** : Nanotechnology in Defence Applications , Proceedings of National Seminar on Nanotechnology and Nanoscience, R.I.H.S. Bhograi, Balasore, 25-26 February 2012.
41. **M.C. Adhikary**, S.K. Agarwalla & S.K. Biswal : Cosmological Model with Perfect Fluid in Lyra Manifold, Proceedings of UGC & DRDO sponsored National Seminar On Space Science & Space Exploration, Hindol College, Dhenkanal , 21-22 January 2012.
42. A.R. Routray & **M.C. Adhikary** : Image Compression using Hybrid Computing Techniques, Proceedings of Workshop on Recent development in Soft Computing, Modern Engineering College , Balasore, 19-20 November 2011.
43. S.B. Bhoi & **M.C. Adhikary** : IT & Knowledge Management in Human Behaviour using Simulation Technique, Proceedings of Workshop on Recent development in Soft Computing, Modern Engineering College , Balasore, 19-20 November 2011.

44. K.K.Chand, S. Pattnaik & **M.C. Adhikary** : Trends in the 21st Century Computing in Science and Engineering: Modelling, Simulation and Beyond, Proceedings of National Conference-NCICT-2011, Silicon Institute of Technology, Bhubaneswar, 10-12 September,2011 , Published by Allied Publishers, New Delhi.
45. S.B. Bhoi & **M.C. Adhikary** : Future Trend in Data Warehouse & Data Mining through Simulation Technique , Proceedings of National Conference-NCICT-2011, Silicon Institute of Technology, Bhubaneswar, 10-12 September,2011 , Published by Allied Publishers, New Delhi.
46. S.B. Bhoi & **M.C. Adhikary** : Information Technology and Knowledge Management in Human Behaviour with Emerging Prospectives, Proceedings of national Seminar on 'Information & Knowledge Management', MBA Dept, FM University, Balasore, 12 March 2011.
47. B.K.Parija, P.K.Sahoo, B. Prusty, A.R.Routray & **M.C. Adhikary** : Conducting Polymers based Sensors: An Artificial Neural Network Approach, Proceedings of National Seminar on 'Recent Trends in Ballistics & Material Science',APAB Dept., FM University, Balasore , 23 November 2010.
48. A.R.Routray & **M.C. Adhikary** : Digital Agriculture Technical Systems, Proceedings of the National Seminar on 'Role of Information & Communication Technology in Agriculture', I&CT Dept., FM University, Balasore , 01 October 2010.
49. B. Prusty, B.K. Parija, P.K. Sahoo & **M.C. Adhikary** : Presented a paper on "On the process of Carbon Nanotube Supercapacitors", Proceedings of National Seminar on Materials Chemistry and Catalysis, North Orissa University, Baripada, 3-4 April 2010.
50. **M.C Adhikary**, K.K. Chand & B.K. Parija : Presented a paper on " A small science with big consequences : Applications in Weapon System" , Proceedings of National Seminar on Nanotechnology-Benefits and Concerns ,RIHS, Bhograi, Balasore , 30-31 January 2010.
51. K.K. Chand & **M.C. Adhikary** : Presented a paper on "Modelling dynamics of variable mass systems –Rocket Trajectory" , Proceedings of National Seminar on Global Warming, North Orissa University, Baripada, 13-14 February 2010.
52. M.V. Bhaskarachary & **M.C. Adhikary** : " Radar Bias Estimation using Kalman Filtering", Proceedings of National conference (NCMS), Defence Institute of Advanced Technology, Pune, 16-18 Dec2009.
53. A.R. Routray & **M.C. Adhikary** : " Radar Image Compression : An Artificial Neural Network Approach" ,Proceedings of National conference (NCMS), Defence Institute of Advanced Technology, Pune, 16-18 December 2009.

54. M.P. Dash , **M.C. Adhikary** & others : Presented a paper on “Spectral, Morphological and Electrical properties of Multiwalled Carbon Nanotubes/Substituted Aniline Conductive Polymer composites”, Proceedings of National Seminar on Nanotechnology & its applications, SIET,Dhenkanal, 17-18 July 2009 .
55. **M.C. Adhikary** : Presented an invited talk on “Prediction of Met-Ballistic Parameters” on UGC seminar at F.M. Autonomous college , Balasore on 25 February 2009.
56. K.K. Chand & **M.C. Adhikary** :Presented a paper on “Modelling and Simulation based applied physics and ballistics – a case study” , at National Seminar at NIST ,Berhampur, 14-15 February 2009.

WORKSHOPS / TRAININGS / Continuing Education Programme (CEP) Participated :

1. Participated in “Successful Institutional Development Plan” training programme at XIMB, Bhubaneswar during 9-10 January 2017 organized by Higher Education Dept., Govt. of Odisha assisted by World Bank.
2. Participated in “Pre-Retirement Counseling” training program at Bhubaneswar, Odisha during 28th -30th May 2015 organized by Gopobandhu Academy of Administration, Govt. of Odisha.
3. Participated in “Accessibility and Empowerment of Persons with Disabilities” training Program at Bhubaneswar during 27th -29th January 2015 organized by Office of State Commissioner for Persons with Disabilities, Govt. of Odisha.
4. Participated in DST sponsored Training Course on Management and Leadership Development at Lal Bahadur Sastri National Academy of Administration (LBSNAA), Mussoorie, 12-16 September 2011.
5. Participated in Advanced Workshop on Complementary Analytical Methods : Diffraction at the International AXAA Workshop & Conference, Sydney, Australia, 06-07 February 2011.
6. Participated in the Staff Development Programme(Work shop) on “Nanotechnology : Processing & Applications” organized by IIT,Kharagpur, 14-19 September 2009.
7. Participated in the UGC-DRS Seminar/ Workshop on “Functional Materials : Future Directions organized by Dept. of Physics, Utkal University, Bhubaneswar, 26-28 March 2009.
8. Participated in the CEP (Continuing Education Program) on “ Rocket Ballistics and Simulation Modelling” at PXE, DRDO, Chandipur, 02 – 13 February 2009 .

9. Participated in the CEP (Continuing Education Program) on “ Armour Penetration Mechanism and Dispersion of Fire” at PXE, DRDO, Chandipur, 27 October – 06 November 2008 .
10. Participated in the CEP (Continuing Education Program) on “ Introductory Course on Armament and Ballistics” at PXE, DRDO, Chandipur, 15-26 September 2008 .
11. Participated in National Academy of Defence Production organized workshop on “Flight Dynamics and Experimental Ballistics” at PXE , DRDO , Chandipur, 09-14 June 2008 .
12. Participated in the DST sponsored National Workshop on “ Bayesian Techniques and its Applications” at Banasthali University , Rajasthan, 01-07 October 2008 .



08 Sept. 2023

Flt. Lt. Prof. Dr. Munesh Chandra Adhikary