

Dr. MOHAMMED HASHIM ALBASHIR**د. محمد هاشم البشير محمد****PhD in Physics****Summary**

I am a dedicated and accomplished Physics educator with over 13 years of experience in teaching physics and medical Physics effectively. Currently serving as an Assistant Professor at Al-Rayan Colleges in Saudi Arabia, I am deeply committed to imparting knowledge in physics concepts related to Medicine, Nursing, Anesthesia and pharmacy through engaging lessons, coursework, and innovative simulations. My teaching approach emphasizes critical thinking and real-world applications, encouraging students to explore the scientific principles underlying physical phenomena.

My academic journey began at Nile Valley University, where I actively contributed to curriculum development, conducted impactful research, and assumed leadership roles in academic administration. Additionally, I have excelled in diverse positions such as Training Center Manager, College Registrar, and Director of Education, further honing my versatile skill set and leadership capabilities.

As an avid member of prestigious scientific societies, including the Saudi Medical Physics Society and the African Physical Society, I am deeply committed to continuous professional growth and staying abreast of the latest advancements in the field of Physics. My extensive publication record, encompassing scientific papers and authored books, underscores my comprehensive expertise in various Physics-related topics.

In summary, my unwavering passion lies in advancing knowledge, nurturing critical thinking skills, and contributing significantly to the academic community. I eagerly look forward to continuing my academic journey and making a meaningful impact on the world of Physics education and research."

Skills

- ❖ Educational process knowledge.
- ❖ Educational support.
- ❖ Educational staff supervision.
- ❖ Data science research methods.

Personal Particular:**Date of Birth:** 28-8-1987.**Nationality:** Sudanese**Marital status:** Married

Present Address:

2. **Mob. Number:** +249918022679

3. **Email:** m.hashim8888@gmail.com

Work History summary**1. Assistant Professor, Nile valley University
Atbara, River Nile |2018 - Current**

- Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations.
- Took attendance, graded assignments, and maintained student records to assist teachers with administrative tasks and maintain smooth daily operations.
- Established research agenda in Physics field to publish in peer-reviewed journals.
- Communicated with students about classroom, lab and study session expectations to help professors maintain order in large classes.
- Revised course objectives, course materials, instructional and assessment strategies for Physics courses.
- Proctored exams and provided remediation for learning improvement goals.
- Assisted professors and school administrators with continuous development, review, planning and outcomes evaluation to measure program performance.
- Facilitated academic and community collaborations to increase number of community-engaged research proposal submissions to extramural funders.
- Supported weekly Physics lab sessions, contributing to student engagement, comprehension and learning objectives.
- Performed research to serve as basis for academic writing for publication.
- Evaluated student progress through analysis of test scores and homework completion.
- Collaborated with faculty members on Physics projects.
- Collaborated with colleagues on curriculum revision, evaluation of course syllabi and lesson plans for Physics curriculum.
- Contributed to planning appropriate and engaging lessons for both classroom and distance learning applications.

**3. Training Center Manager, Nile Valley University
|2020 - 2021**

- Reviewed and edited all training materials for accuracy and University policy compliance.
- Coordinated ongoing technical training and personal development classes for staff members.
- Evaluated success of training programs and recommended improvements to upper management to enhance effectiveness.
- Directed training programs and development paths for managers and supervisors.
- Organized and edited training manuals, multimedia visual aids and other educational materials.

Developed departmental systems and procedures to better align workflow processes.

4. College Registrar, Deanship of Distance Learning, Nile Valley University |2017 – 2020**5. Assistant Professor, Abdallah Elbadri University
Barbar, River Nile |2014 - 2021**

- Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations.
- Built strong rapport with students through class discussions and academic advisement.
- Mentored students and communicated internship and employment opportunities.
- Revised course objectives, course materials, instructional and assessment strategies for Physics courses.
- Applied innovative teaching methods to encourage student learning objectives.

CURRICULUM VITAE

2023

CAREER PROGREEION	التدرج الوظيفي
الفترة (من - إلى)	مجال الخبرة
مارس 2018م حتى تاريخه	أستاذ مساعد Assistant Professor
سبتمبر 2014م - مارس 2018م	محاضر Lecturer
فبراير 2011م - سبتمبر 2014م	مساعد تدريس Teaching assistant

CAREER PROGREEION	التاريخ الوظيفي
أستاذ مساعد- قسم الفيزياء	الوظيفة
جامعة وادي النيل	الجامعة أو المؤسسة
فبراير 2011م حتى 2021	تاريخ (بدء العمل- نهاية العمل)
أستاذ مساعد	الوظيفة
جامعة عبد الله البدري	الجامعة أو المؤسسة
فبراير 2014 إلى ديسمبر 2021	تاريخ (بدء العمل- نهاية العمل)

Academic Particulars

[2014-2018]

PhD in Applied physics (NanoPhysics).

[2011-2014]

MS.c in Applied physics (NanoPhysics)

[2004-2009]

BS.c in Science and Education (Physics and Mathematics), (*First Class*).

Memberships in Scientific Societies

العضويات في الجمعيات والهيئات العلمية

اسم الجمعية باللغة الانجليزية	اسم الجمعية باللغة العربية
Saudi Physical Society	الجمعية السعودية للعلوم الفيزيائية
African Physical Society	جمعية الفيزياء الأفريقية
Arab Physical Society	الجمعية العربية للفيزياء
Saudi Medical Physics Society	الجمعية السعودية للفيزياء الطبية

7. Publications:

الأوراق العلمية المنشورة بعد آخر ترقية

- **Mohammed Hashim Albashir**, & Hashim Gad Alseed (2023) Calculating the Probability of Lung Cancer from Radon Gas Radiation Exposure during Incense Burning at Home, <https://merowe.edu.sd/wp-content/uploads/2023/12/arm6.pdf>.
- **Mohammed Hashim Albashir** (2024) Measurement of gamma radiation levels in some types Of Crops in River Nile State, Sudan, **Journal of environnement, sustainable development and human health**, <https://www.asjp.cerist.dz/en/PresentationRevue/854> (معامل التأثير العربي) <https://www.arabimpactfactor.com/pages/journals.php>)
- **Mohammed Hashim Albashir, M.** (2024). Influence of Stirring Time on the Electrochemical Synthesis of Silver Nanoparticles: Size and Stability Analysis. <https://doi.org/10.5281/zenodo.11286061>
- **Mohammed Hashim Albashir.** (2018). Preparation and Characterization of Silver Nanoparticles. <https://core.ac.uk/download/pdf/225936249.pdf>
- **Mohammed Hashim Albashir.** (2020). Future Prospects for the Use of Nanomaterials in the Prevention, Diagnosis and Treatment of the Emerging COVID-19 Virus. 20-1,9, مجلة الوسيلة للعلوم والتكنولوجيا, <https://doi.org/10.5281/zenodo.7655019>
- Mohamed. A.H. Dahab, **Mohammed Hashim Albashir**, A.E. Elfaki, & A.S. Alhag. (2020). Determination of Radon-222 Levels and Hazards in Air Samples, Quarriers Cement Factories in River Nile State, Sudan. Journal of Scientific and Engineering Research, 7(4), 85-90. <https://doi.org/10.5281/zenodo.7655032>
- Hajhamed Diab, HashimGad Elseed, **Mohammed Hashim Albashir** (2024),String Quantum model based on generalized special relativity.

Accepted for publication
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, Hajhamed Diab Aljaly, Hashim Gad Elseed, Zahra Mohammed Sagyer, & Samia Mohammed Alsaid. (2023). Impact ZrO₂ Nanoparticle Addition on Compressive Strength and Sturdiness of Concrete. <i>International Journal of Scientific Research and Engineering Development</i>, 6(1), 373–376. https://doi.org/10.5281/zenodo.7654992
<ul style="list-style-type: none"> • Hajhamed Diab, HashimGad Elseed, Mohammed Hashim Albashir. (2024). IMPACT OF SOIL RADIOACTIVITY LEVELS ON CANCER RISK IN ATBARA REGION: A STUDY UTILIZING RELATIVE RISK ANALYSIS. https://doi.org/10.5281/zenodo.11124304
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, Hashim Gad Elseed, Hajhamed Diab Aljaly, & Naga Abdalaziz. (2023). SIMULATING THE DYNAMICS OF A PARTICLE IN A QUANTUM MECHANICAL OSCILLATOR: A MULTIDIMENSIONAL WAVE FUNCTION APPROACH. <i>EPRA International Journal of Research and Development (IJRD)</i>, 8(2), 30–34. https://doi.org/10.36713/epra12360
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, Hashim Gad Alseed, Hajhamed Diab, & Naga Abdalaziz. (2023). OPTICAL CHARACTERIZATION OF SPHERICAL NANOPARTICLES USING SIMULATION APPROACH. <i>EPRA International Journal of Multidisciplinary Research (IJMR)</i>, 9(2), 81–85. https://doi.org/10.36713/epra12377.
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, Hashim Gad Elseed, Hajhamed Diab Aljaly. (2023). Spectral Line Broadening Mechanisms in Plasmas. A Theoretical Study using Doppler broadening models. Zenodo. https://doi.org/10.5281/zenodo.11124299
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, Hashim Gad Alseed, & Hajhamed Diab. (2023). Time-Resolved Two-Photon Spectroscopy: Applications in Quantum Physics and Photonics. <i>International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)</i>, 3(2), 88–100. https://doi.org/10.5281/zenodo.7655096
<ul style="list-style-type: none"> • Hajhamed Diab, HashimGad Elseed, Mohammed Hashim Albashir ,THE SEPARATION OF VARIABLES METHOD FOR SOLVING THE KLEIN-GORDON EQUATION IN CURVED SPACETIME, https://doi.org/10.36713/epra12352
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, N. A. A. (2023). Determine the Effect of Stirring Time on Synthesis of Ag Nanoparticles Prepared by Electrochemical Method. <i>Journal of Scientific and Engineering Research</i>. https://doi.org/10.5281/zenodo.11217659
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, HAJHAMED DIAB ALJALY, & HASHIM GAD ELSEED. (2023). Heavy metal concentration in <i>Trigonella foenum-graecum</i> (fenugreek), Collected from River Nile State, Sudan. <i>EUROPEAN ACADEMIC RESEARCH</i>, 11, 462. https://doi.org/10.5281/zenodo.7683641
<ul style="list-style-type: none"> • SAMIA MOHAMMED ALSAID, MOHAMMED HASHIM ALBASHIR, HASHIM GAD ELSEED, HAJHAMED DIAB ALJALY, ZAHRA MOHAMMED. (2023). Estimation of the contribution of Radon-222 levels to risk of lung cancer in

homes Atbara city, Sudan. EUROPEAN ACADEMIC RESEARCH, 10, 3792–3796. https://doi.org/10.5281/zenodo.7559665
<ul style="list-style-type: none"> • Hashim Gad Elseed, Haj hamed Diab Aljaly, Mohammed Hashim Albashir. (2023). THE CONNECTION BETWEEN SCHRÖDINGER EQUATION AND QUANTUM FIELD THEORY. <i>EPRA International Journal of Multidisciplinary Research (IJMR)</i>, 9(1), 289–293. https://doi.org/10.36713/epra12321
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, Hajhamed Diab, & Hashim Gad Alseed. (2023). A COMPARATIVE STUDY OF THE SOLUTIONS OF THE KLEIN-GORDON AND DIRAC EQUATIONS: IMPLICATIONS FOR PARTICLE PHYSICS. <i>EPRA International Journal of Research and Development (IJRD)</i>, 8(2), 106–112. https://doi.org/10.5281/zenodo.7655055
<ul style="list-style-type: none"> • Hosam eldeen Elhadi Abdelrahman, Hasabalrasoul Gesmallah Ismail, Alfadel Mahmoud Yousif, Hashim Gad Elseed, Mohammed Hashim Albashir, (2016) Measurements of Heat Capacity from Lattice Vibrations of Solids by Using Debye Model.
<ul style="list-style-type: none"> • Taha Mansour Elhag & Mohammed Hashim Albashir, (2016) SILVER NANOCOLLOID FOR CONTROL CULEX QUINQUEFASCIATUS MOSQUITO LARVICIDE
<ul style="list-style-type: none"> • Hasabalrasoul Gesmallah Ismail , Hashim Gad Elseed, Mohammed Hashim Albashir, (2016) Concentrations of (Fe, Ni , Zn, Mn , Cr) in Moringa Oleifera collected from River Nile state 2016 ,.
<ul style="list-style-type: none"> • Hasabalrasoul Gesmallah Ismail , Hashim Gad Elseed, Mohammed Hashim Albashir, (2016) Deriving of the Length Contraction in the Presence of the Gravitation in General Special Relativity by Using a Light Clock 2016 ,
<ul style="list-style-type: none"> • Hashim Gad Elseed, Mohammed Hashim Albashir, (2016), Assessment of Natural Radioactivity Concentration and Dose in Surface Soil Samples from Atbara .
<ul style="list-style-type: none"> • Mohammed Hashim Albashir, (2016), Mechanical Properties of cementitious composite by using ZnO nanoparticles.

الأوراق العلمية أخرى تم نشرها قبل العام 2018م

1. Measurements of Heat Capacity from Lattice Vibrations of Solids by Using Debye Model, 2016
2. SILVER NANOCOLLOID FOR CONTROL CULEX QUINQUEFASCIATUS MOSQUITO LARVICIDE ,2016.
3. Concentrations of (Fe, Ni , Zn, Mn , Cr) in Moringa Oleifera collected from River Nile state, 2016.
4. Deriving of the Length Contraction in the Presence of the Gravitation in General Special Relativity by Using a Light Clock, 2016
5. Mechanical Properties of cementitious composite by using ZnO nanoparticles, 2016
6. العوامل المؤثرة على طلاب الفيزياء نحو مشاريع التخرج العملية، مجلة جامعة وادي النيل العلمية

الكتب المنشورة

البلد	دار النشر	عنوان الكتاب
الأردن	دار الحامد للنشر والتوزيع	فيزياء الكون الحديثة
الأردن	دار الحامد للنشر والتوزيع	مخاطر تكنولوجيا النانو
مصر	دار ايتراك للنشر والتوزيع	مقدمة إلى انابيب النانو الكربونية
الأردن	دار الحامد للنشر والتوزيع	فيزياء النيوتريو والجسيمات الأولية
الأردن	دار الحامد للنشر والتوزيع	الدروع الواقية من الاشعاع النووي
الأردن	دار الحامد للنشر والتوزيع	فيزياء الذرات الفائقة وكثافة بوز اينشتاين
الأردن	دار المجدلأوي	العناصر المشعة في الهواء الجوي

Conference

بعد العام 2018

المؤتمرات

1. National Electrophysiology Symposium 2024 which will take place at the Crowne Plaza RDC Hotel & Convention in KSA, on 29 February - 01 March 2024.
2. The International Symposium on Porous Organic Polymers (POPs) & the KAUST Workshop for Women in Science and Engineering (WISE), (KAUST) King Abdullah University of Science and Technology, Saudi Arabia, 13-15 FEBRUARY, 2024
3. First Conference of the Saudi Association for Statistical Sciences, "Statistics and Health. Taibah University, Madinah, 11 February 2024.
4. POSS 2024 PRECISION ONCOLOGY SAUDI SUMMIT, State of The Art in Cancer Care, King Salman International Convention Center, Al Madinah Al Munawwarah, Saudi Arabia, 8-10 FEBRUARY, 2024
5. CMMM symposium, KSU's 3rd Annual Symposium on Computational and Mathematical Methods in Medicine, Department of Oral Medicine and Diagnostic Sciences, King Saud University, Friday-Saturday, Feb. 2-3, 2024
6. The 3rd African Conference of Fundamental and Applied Physics, ACP2023, organized jointly by Nelson Mandela University at George Campus, in George, South Africa, September 25-29, 2023
7. International Conference on Quantum Annealing/Adiabatic Quantum Computation, ICTP, International Center for Theoretical Physics 2023
8. مؤتمر التحديات و عوامل النجاح في المشاريع المتعلقة بالذكاء الاصطناعي، مؤسسة الإدارة العامة، المملكة العربية السعودية، 8.

اكتوبر 2023

9. تحديات استخدام الذكاء الاصطناعي في المشاريع، معهد الإدارة العامة، المملكة العربية السعودية، اكتوبر 2023

10. International Conference ROLE OF SCIENCE & TECHNOLOGY IN SUSTAINABLE DEVELOPMENT organized by Department of Zoology & IQAC of Digambarrao Bindu Arts commerce and Science College, Bhokar, Dist. Nanded In Collaboration with SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

11. International conference on Recent Advances in Materials Science & Nanotechnology organized by Department of Physics of Yeshwantrao Chavan College of Arts, Commerce & Science Sillod, Dist. Aurangabad, Maharashtra, India during 1st & 2nd August 2020.

12. International Conference on Cutting Edge Smart Materials & Nanotechnology, Shivaji University, Kolhapur. Accredited 'A+ Grade' with CGPA 3.63 by NAAC.ISO 9001-2015 Certified, RUSA Beneficiary & NAAC Designated Mentor College, 2020

13. International conference on education transformations in the Era 4.0, IAIN LHOKSEUMAWE International conference, Indonesia, 2020

14. Solid State Physics in Quarantine, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2020

15. "Astronomy and Astrophysics" organized by Department of Physics and IQAC on 20th & 21st August, 2020. Savitribai Phule Pune University, Pune

16. International Conference Learning Quality Improvement Strategies in The New Normal Era, Islamic Elementary school teacher Education Department, of Graduate school of Islamic Institute of Tulungagung, INDONESIA

17. Scopus Journals' Indexing Criteria at Association of Arab Universities, on Monday 24 August, 2020

18. International Virtual Conference on Physics of Solid State Materials, organized by the Department of Physics, St Aloysius College, Mangaluru, 2020.

19. مؤتمر التعليم عن بعد ووظائف المستقبل في ظل الأزمات العالمية الناجمة عن الأوبئة، المركز الأكاديمي للمؤتمرات والنشر العلمي.

20. المؤتمر الدولي الخامس عشر لتطوير التعليم، الجمعية العربية لأصول التربية والتعليم المستمر وأكاديمية رواد التميز للتدريب والاستشارات والتنمية البشرية، يونيو، 2023

التطوير الأكاديمي واللجان

2022	المشاركة في إعداد مناهج برنامج ماجستير الفيزياء بكلية الدراسات العليا جامعة وادي النيل
2022	المشاركة في إعداد مناهج قسم الفيزياء للتخصص المنفرد بكلية التربية جامعة وادي النيل
2022	المشاركة في إعداد مناهج العلوم الأساسية بكليات الطب والهندسة بجامعة عبد الله البدري
2020 الي 2023	عضوية لجنة أبحاث الفيزياء بكلية الدراسات العليا جامعة وادي النيل
من 2019 حتى تاريخه	Journal of New Technology and Materials محكم بمجلة
من 2019 حتى تاريخه	Revue des Sciences et Sciences de l'Ingénieur محكم بمجلة

CURRICULUM VITAE

2023

من 2020 حتى تاريخه	محكم بالمجلة الأكاديمية المفتوحة للعلوم التطبيقية والانسانية
2020 الي 2022	عضوية مجلس اساتذة جامعة وادي النيل
2020 الي 2022	عضوية مجلس عمداء جامعة وادي النيل
2017 الي 2021	مقرر مجلس التعليم المفتوح والانتساب

الإشراف على طلاب الدراسات العليا

م	الاسم	الجامعة	الدرجة العلمية	التخصص
1	ماريا عبد الفتاح يوسف محمد	جامعة الجزيرة	ماجستير	فيزياء
2	فايزة النعمة أحمد عنقي	جامعة الجزيرة	ماجستير	فيزياء
3	شذى دفع الله محمد نور مصطفى	جامعة الجزيرة	ماجستير	فيزياء
4	عواطف عبد الجبار محمد محمد زين	جامعة الجزيرة	ماجستير	فيزياء
5	اسراء عباس هجو الحسن	جامعة الجزيرة	ماجستير	فيزياء
6	أميمة عبد الله أحمد	جامعة الجزيرة	ماجستير	فيزياء
7	زهراء محمد صغير	جامعة امدرمان	ماجستير	فيزياء

المشاركة الإدارية بعد اخر ترقية

إلى	من	المشاركة
2021/12/5	2021/10/10	مدير وحدة التدريب وبناء القدرات بجامعة وادي النيل
2020	2017	مسجل وحدة التعليم المفتوح والانتساب جامعة وادي النيل
2020	2017	عضو لجنة امتحانات وحدة التعليم المفتوح والانتساب

8. Area of interest:

Medical Physics, General physics, Nano Physics, Material science, Radiation Physics, Nuclear physics, Quantum physics, cosmology.

9. Teaching courses:

1. Medical Physics , General Physics I, II
- 2.3. Optical Physics,
3. Atomic Physics
4. Nuclear physics I, II
6. Quantum Mechanics I, II,
7. Solid state Physics
8. Statistical Physics,
9. Semiconductor Physics,
10. Electricity and magnetism,
11. Modern Physics
12. NanoPhysics

11. Qualifications:

- HARMONIZATION OF CLINICAL LABORATORY TESTS، الجمعية السعودية للكيمياء السريرية، اكتوبر 2023
- تحديات استخدام الذكاء الاصطناعي في المشاريع، معهد الادارة العامة، المملكة العربية السعودية، 2023
- Artificial Intelligence in Medication Safety is almost here، منظمة الصحة العالمية والمركز السعودي لسلامة المرضى SPSC، اكتوبر 2023
- التقييم البنائي: استراتيجيات لتطوير الأداء وتعزيز التعلم، جامعة القصيم ، اكتوبر 2023
- المراجعة المنهجية في البحوث التربوية، جامعة الملك سعود، اكتوبر 2023
- the International Workshop on Top Quark Physics (TOP2023) 16
- Active Workshop Evaluation Form CLOs Assessment "Blueprint and "Item Analysis
- البرمجة بلغة بايثون-جامعة الطائف- المملكة العربية السعودية، 2023
- كتابة المحتوى العلمي والذكاء الاصطناعي، جامعة الملك فيصل، 2023
- عقلية النمو للممارس التربوي، مركز التطوير التربوي جامعة الملك سعود، 2023
- استخدام برنامج(wiser.me) لإنشاء أوراق العمل التفاعلية في العملية التعليمية، مركز التطوير التربوي جامعة الملك سعود، 2023
- التجارب العالمية في مجال المناهج وطرق التدريس، الجمعية السعودية للعلوم النفسية والتربوية، جستن، جامعة الملك سعود و جامعة طيبة.

- ICTP-IAEA Training Course on Quality Assurance, Quality Control and Optimization of Equipment and Procedures Used in Fluoroscopically-Guided Interventional Radiology
- تطبيقات وأدوات الذكاء الاصطناعي التعليمية، الجمعية السعودية للعلوم النفسية والتربوية، جستن، جامعة الملك سعود و جامعة طيبة.
- جمع وتحليل البيانات في القطاع الصحي باستخدام ريمارك،
- تعزيز النمو المهني لأعضاء هيئة التدريس، جامعة الطائف، المملكة العربية السعودية، 2023
- التوعية بأثر التحول الرقمي في التطور المهني، جامعة الطائف، المملكة العربية السعودية، 2023
- Workshop on The Use of Technology in Higher Educations' Institutions Microsoft Office 365 One drive, Alrayyan, 28/09/2023.
- التأثيرات البيئية للطاقة النووية والمواد المشعة، بيت خبرة التقنيات النووية والإشعاعية بمركز البحوث والاستشارات، جامعة الطائف، المملكة العربية السعودية، 17 سبتمبر 2023م
- Training course at Arab Atomic Energy Agency (AAEA) InThe Use of Radiological Techniques in preparing nanomaterials and their applications,2019.
- Training course at University of Khartoum(Materials and Nanotechnology Research Centre (MNRC)),Nanotechnology Applications in Environment, Energy, Medicine and Electronics: Promotion, Potential and Challenges,2018
- Training course at Al-Neelain University, MATLAB and its applications in physics,2018
- Training course atUniversity of Khartoum and UNDP's TOKTIN Sudan Project,Nanotechnology,2013 by Dr.Omer Salih M.Nour, Linkoping University,Sweden.
- Training course at Institute of Laser,Sudan University of Science &Technology (Laser Science and Applications).2013.
- Training course at Nile Valley University, Education Development,2015.
- Training course organized by IOM TRQN III Project, in *Teacher Continuing Professional Development* (CPD),2015
- Training course at Nile Valley University, Nanotechnology (Law Temperature chemical growth of Nanostructure, Law Temperature chemical growth of composite Nanostructure),2015.

- Training course at Future University, Nanotechnology (Law Temperature chemical growth of composite Nanostructure),2015
- Training course at Nile Valley University, Strategic Plan,2017
- Training course at Al-Neelain University, Advanced Mathematics and Theoretical Physics, 2013
- Training course at University of Khartoum, Nanotechnology (Law Temperature chemical growth of composite Nanostructure),2015
- “NANOTECHNOLOGY: GRAPHENES AND THEIR POTENTIAL APPLICATIONS” organized by Department of Physics in collaboration with IQAC, Kokrajhar Govt. College on 22nd August, 2020.,
- "Schrödinger's cat is a thought experiment in quantum chemistry, United Nations Global Marketplace, Iraq 2020.
- “NANOMATERIALS for ENERGY APPLICATION” organized by DEPARTMENT OF PHYSICS on the occasion of “18th INTERCOLLEGIATE MEET PHYONICS 2020“ on 13th August 2020. SERMATHAI VASAN COLLEGE FOR WOMEN ACCREDITED WITH ‘B’ GRADE BY NAAC AVANIYAPURAM, MADURAI-12
- QUANTUM MATERIALS AND NANOPARTICLES FOR ADVANCED APPLICATIONS, Manonmaniam Sundaranar University, 2020
- Role of LASERS in Defence, conducted by the Department of Science of St Joseph's College of Engineering, Anna University, 2020.
- Dielectric materials and their characterization studies in the microwave frequency region, organised by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad.2020
- COST EFFECTIVE THIN FILM TECHNOLOGY FOR environmental Applications, Departments of Science and Humanities (PHYSICS), of C.Abdul Hakeem College of Engineering and Technology, Melvisharam
- MATLAB- Statistics & Data Science, Sagar Institute of Technology and Management is a college in Barabanki, 2020
- Nanotechnology and its Applications in Engineering, The Anand International College of Engineering,2020
- “Liquid Crystals and Nanomaterials for Display Technology”, organised by Department of Basic Sciences & Humanties, Vignan's Institute of Management & Technology for Women,Hyderabad.2020

- Quantum Dots and its Applications, Vel Tech HighTech Engineering College, Vel Nagar, Avadi, Chennai,2020
- progress in nanocomposites for environmental and device applications. organized by Department of Physics,Arul Anandar College (Autonomous), Karumathur, Madurai District, Tamil Nadu, 2020.
- “Microwave Sintering” conducted on, organised by Department of Basic Sciences & Humanities, Vignan'sInstitute of Management & Technology for Women, Hyderabad.
- Therapeutic applications of plant based inorganic nanoparticles: Current status and future perspectives, Bharath University, Chennai. 2020
- EMERGING TECHNOLOGIES AND CHANGING SCENARIO ON MATERIAL RESEARCH organized by DEPARTMENT OF BASIC SCIENCES, SANTHIRAM ENGINEERING COLLEGE, NANDYAL.2020
- “Recent Trends In Physical Sciences” ,organized by Department Of Physics, J.N.S. Govt. P.G. College, Shujalpur (M.P.) and IAPT RC-09 Sponsored by the Department of Higher Education, Govt. of M.P. under MPHEQIP
- Non-precious Metal Complexes for Sustainable Catalysis, Optoelectronic and Biology Application, Bharathiyar University, Coimbatore, Tamil Nadu 641046, India. 2020
- Photocatalysts and Electrocatalysts” organized by PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur - 625 514, Madurai. 2020.
- Advanced Characterization and Microstructural Analysis, Department of Mechanical Engineering, St.Joseph's Institute of Technology,OMR, Chennai. 2020
- “APPLICATIONS OF NANOTHERANOSTIC IN CARCINOMA TREATMENT” and “DATA VISUALIZATION USING PYTHON” organized by Institution’s Innovation Council of Dr.N.G.P. Institute of Technology. 2020
- 'Spectroscopy and Solid State Chemistry', Organized by School of Studies in Chemistry & Biochemistry, Vikram University, Ujjain, M. P., India, 2020
- “TERAHERTZ GENERATION STUDIES OF NLO CRYSTALS” organized by the Department of Physics and Research centre & IQAC, Nesamony Memorial Christian College, Marthandam. 2020
- Tools and Techniques of Nanotechnology: An Integral Approach”, organized by the Department of Physics, Ethiraj College for Women, Chennai. 2020

- “MATLAB & Simulink Fundamentals & its Application in AI” Jointly Organized by DEPARTMENT OF ELECTRONICS ENGINEERING, ATHARVA COLLEGE OF ENGINEERING, MUMBAI. 2020
- ‘Education 4.0: Future Perspective of Learning’, University of Mumbai & Accredited, Vile Parle (E), Mumbai, 2020
- “Application of different branches of Physics in daily life, Vikram University Ujjain (M.P.), 2020
- LaTeX for Scientific Documentation" Organized by Department of ECE, MVR College of Engineering and Technology, 2020
- “An Overview of Electric, Magnetic and Optoelectronic Phenomena & Their Applications” organized by Department of Physics, Shri Vaishnav Institute of Science. 2020
- “Nano Structure – Gas Sensing” Approved by the Government of Tamil Nadu, Affiliated to Manonmaniam Sundaranar University, Tirunelveli. 2020
- Nanomaterials-A Multidisciplinary Approach ,Department of Physics, Saveetha Engineering College, Chennai- 602105. 2020
- “Preparation Methods and Deposition Techniques of Nanostructures” delivered by Dr. R. Jayavel , Professor & Director, Centre for Nanoscience and Technology, Anna University, Chennai, Tamil Nadu, organized by PG & Research Department of Physics & DESIGNTECH SYSTEMS PVT. LTD.,2020
- Nanostructured Metal Oxide Thin Films for Sensor Technology, Department of Physics, Saveetha Engineering College, Chennai-602105. 2020
- Introduction of Nanotechnology And it's Application and Future Aspect, Department Of Applied Science,SAGE, 2020
- “Dating Geo- Archaeological Materials using luminescence” organized by the Department of Physics, A.P.C. Mahalaxmi College for Women,2020
- Preparation Methods and Deposition Techniques on Nanostructures, organized by Department of Physics, V.O.Chidambaram College, 2020
- FT-IR and FT-Raman Spectroscopy in Structure elucidation – An overview, organized by Department of Chemistry, A.V.V.M Sri Pushpam College, Poondi,2020.
- Nanomedicine and Disease Management organized by Department of Microbiology, Muthayammal College of Arts & Science, Periyar University,Salem, 2020
- "Fundamentals of Nanofluids and Heat Transfer" organized by Department of Mechanical Engineering, Marthandam College of Engineering & Technology,2020

- Advances in the Synthesis of Biopolymer-Ceramic Composites for Biomedical Applications, Department of Physics, Saveetha Engineering College, Anna University, Chennai, 2020
- Emerging Trend in Material Science (IWETMS 2020), Maharaja Bhoj Govt. P. G. College, 2020
- use of Lanthanide ions as Photoluminescence (Structural) Probes, Department of Physics, Saveetha Engineering College, Chennai, Anna University, Chennai, 2020
- Understanding Renewable Energy, Young African Leaders Initiative Network, 2020
- 7- days FDP on Contemporary Amelioration in Nano Structured Materials, Organized by the Department of Science and Humanities (Physics & Chemistry), Jeppiaar Engineering college, Chennai, 2020

Conference:

1. International Conference on Quantum Annealing/Adiabatic Quantum Computation, ICTP, International Center for Theoretical Physics, Trieste, Italy.
2. International Conference ROLE OF SCIENCE & TECHNOLOGY IN SUSTAINABLE DEVELOPMENT organized by Department of Zoology & IQAC of Digambarrao Bindu Arts commerce and Science College, Bhokar, Dist. Nanded In Collaboration with SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
3. International conference on Recent Advances in Materials Science & Nanotechnology organized by Department of Physics of Yeshwantrao Chavan College of Arts, Commerce & Science Sillod, Dist. Aurangabad, Maharashtra, India during 1st & 2nd August 2020.
4. International Conference on Cutting Edge Smart Materials & Nanotechnology, Shivaji University, Kolhapur. Accredited 'A+ Grade' with CGPA 3.63 by NAAC.ISO 9001-2015 Certified, RUSA Beneficiary & NAAC Designated Mentor College, 2020
5. International conference on education transformations in the Era 4.0, IAIN LHOKSEUMAWE International conference, Indonesia, 2020
6. Solid State Physics in Quarantine, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2020
7. "Astronomy and Astrophysics" organized by Department of Physics and IQAC on 20th & 21st August, 2020. Savitribai Phule Pune University, Pune
8. International Conference Learning Quality Improvement Strategies in The New Normal Era, Islamic Elementary school teacher

Education Department, of Graduate school of Islamic Institute of Tulungagng, INDONESIA

9. Scopus Journals' Indexing Criteria at Association of Arab Universities, on Monday 24 August, 2020

10. International Virtual Conference on Physics of Solid State Materials, organized by the Department of Physics, St Aloysius College, Mangaluru, 2020.

- مؤتمر التعليم عن بعد ووظائف المستقبل في ظل الأزمات العالمية الناجمة عن الأوبئة، المركز الأكاديمي للمؤتمرات والنشر العلمي، ماليزيا، 2020م
- الورشة الإقليمية (ضمان الجودة في التعليم والتعلم عن بعد: المتطلبات والتحديات والآمال)، المركز الإقليمي للجودة والتميز في التعليم، منظمة الأمم المتحدة للتربية والعلم والثقافة، اليونسكو 2020
- الورشة الإقليمية (مساهمة القطاع غير الحكومي في جودة التعليم في العالم العربي)، المركز الإقليمي للجودة والتميز في التعليم، منظمة الأمم المتحدة للتربية والعلم والثقافة، اليونسكو 2020
- ورشة تقويم التعليم الجامعي عن بعد، المركز التربوي للتطوير والتربية المهنية، كلية التربية، جامعة الملك سعود، المملكة العربية السعودية، 2020
- ورشة التدريب الميداني وبدائله، المركز التربوي للتطوير والتربية المهنية، كلية التربية، جامعة الملك سعود، المملكة العربية السعودية، 2020
- التعليم بين الحضور والتباعد، المركز التربوي للتطوير والتربية المهنية، كلية التربية، جامعة الملك سعود، المملكة العربية السعودية، 2020
- اتجاهات حديثة في التعليم الجامعي، المشكاة، المملكة الاردنية الهاشمية، 2020م.