

20/8/2013 - Present

Prince Sattam bin Abdul-Aziz University.
Previously : Salman bin Abdulaziz University

Saudi Arabia

- Physics lecturer
- Testing Unit coordinator

Duties:

- Teaching Physics (lectures and laboratories) for science and medical students.
- Supervising the Testing Unit in Preparatory Year Deanship (2014-2015).
- Combining physics textbook for both tracks of preparatory year (Science and Medical tracks).
- Preparing examination / online examination/online learning.
- Creating a website for the books, quizzes and exams for students ([www. anasyousef.com](http://www.anasyousef.com))
- Training faculty of Preparatory Year Deanship to use scientific programs and to improve themselves.

3/2/2007–20/8/2013

UNRWA Schools.
 Science teacher.

Jordan

Duties:▪ **Responsibilities:**

- Preparing the student for national exams
- In Charge of the science lab
- Administrative duties
- Headed the school's health committee
- The school's E-learning committee (Eduwave)

A member of:

- The Development Committee, at school.
- the Commission of Science in the south of Amman (UNRWA)

Languages

- **Arabic Language:** Native speaker
- **English Language:** Very good

Publications and Researches

1. **"A Quick Detection of Melamine Adulteration in Milk and Dairy Products Using First-Order Multivariate Calibration"**. Journal of Food Processing and Preservation -Wiley (2015). Ramia Z. Al Bakain, Yahya S. Al-Degs, Amjad H. El-Sheikh, **Anas Y. Al-Reyahi**, Asma'a H. Abu-Wardeh.
2. **"Multivariate analysis of competitive adsorption of food dyes by activated pine wood"**. Desalination and Water Treatment – Taylor &Francis (2016). Mohammad A. Al-Ghouti, Ayman A. Issa, Bety S. Al-Saqarat, **Anas Y. Al-Reyahi**, Yahya S. Al-Degs.
3. **"Application of mid-infrared spectroscopy and PLS-Kernel calibration for quick detection of pork in higher value meat mixes"**. Food Measure - Springer (2016). Mahmoud Abu-Ghoush, Ismail Fafous, Yahya Al-Degs, Murad Al-Holy, Ayman A. Issa, **Anas Y. Al-Reyahi**, Abdel Aziz Alshathri.
4. **" Application of Partial Least Squares-Kernel Calibration in Competitive Adsorption Studies Using an Effective Chemically Activated Biochar "**CLEAN - Soil, Air, Water-Wiley(2017). Ayman Issa, Yahya S. Al-Degs, Amjad H. El-Sheikh, **Anas Y. Al-Reyahi**, Ramia Z. Al- Bakain, Jafar Alxielghani, Alan P. Newman.
5. **" Interval wavelength selection and simultaneous quantification of spectrally overlapping food colorants by multivariate calibration "**, Journal of Food Measurement and Characterization, Springer (2021), Yahya S. Al-Degs, Amjad H. El-Sheikh, Abdullah I. Saleh & Anas Y. Al-Reyahi.

6. **" Assessment of Structure, Dielectric and Gamma-Shielding Properties of chemical Treated Natural Kaolinite Clay "**, Iranian journal of Materials science and engineering (2021), Anas Al-Reyahi, Salem Yahya Degs, Ayman Issa, Ziad Khattari, Mohammed Abu Al Sayyed.

Unpublished Researches

1. **"The Effect of investigative strategic on the score of fifth grade students in basic science in the area south of Amman"** -for fulfillment EP certificate in UNRWA (2010). **Anas Yousef Al-Reyahi**, Surya Ayyad (supervisor).
2. **"The impact of brainstorming strategy and investigative learning strategy on Students' grades -Medical Track- in PYD in Physics 106 in chapter mirrors and lenses at Prince Sattam bin Abdulaziz University"**- for Prize of distinguished teaching performance (1) (2015). **Anas Yousef Al-Reyahi**

Authors

- 1- **"Introduction to Mathematica"**, (under preparation), language: Arabic, (2016) Prince Sattam bin Abdulaziz University.

The main idea of this book is to make the reader familiar with Wolfram programming language, so anyone can start his own way using Mathematica, solving different problems, using the user interface, physics applications and much more.

Courses Taught

1- Physics 101

" for Scince and Engineers student also some medical branches, the main topics for this course include: Vectors , Kinematics , Newton's Laws , Work and Energy , Momentum ."

2- Physics 102

" for Scince and Engineers student, the main topics for this course include: Coloumb'Law , Electric fied and Potential , Capactance and its applications, current and circuits, Magnetic force and files ."

3- Electronics Devices

for **physicist student** in the Hashemite university, the main topics for this course include: " RC Circuits, RLC Circuits, Diode and transistor characteristics and application "

4- Electronics Lab

for **physicist student** in the Hashemite university, the main topics for this course include: " RC Circuits, RLC Circuits, Diode and transistor characteristics and application "

5- Physics lab 103

for **Science and Engineers** in the Hashemite university, the main topics for this course include: " Application of physics 101, newton's laws, motion, measurements, heat, ... "

6- Physics Lab 104

for **Science** student in the Hashemite university, the main topics for this course include: " Application of physics 102, Ohm's law, circuits, RC, electrical measurements "

7- Physics 1010

Physic for **Science Track** in Preparatory Year Deanship at Prince Sattam bin Abdulaziz University, the main topics for this course include:

"Units and dimensions, Physical Properties of materials, Fluid Mechanics, Thermal Physics, Sound Waves"

8- Physics 106

Physic for **Health Track** in Preparatory Year Deanship at Prince Sattam bin Abdulaziz University, the main topics for this course include:

"Units and dimensions, Nuclear Physics, Radiation, Fluid Mechanics, Optics, Electricity and Magnetism"

9- Physics Lab

Physic for **Science** and **Health Track** in Preparatory Year Deanship at Prince Sattam bin Abdulaziz University

Online Courses

I offer a variety of online courses through my personal educative website **www.uni-ac.com** and my YouTube channel www.youtube.com/learningafkar

1- Physics 106

Teaching the physics 106 course and solve the problems associated with it online at <https://goo.gl/7w4hcT>

2- Physics for the General Secondary Certificate (Tawjihi)

Teaching the physics for Tawjihi students, upload summary course at my website and solve the problems associated with it online at <https://goo.gl/Y4jQSp>

3- Physics virtual lab

How to install and use the virtual physics lab crocodile physics, <https://goo.gl/uR27xW>

4- Physics 101

Teaching physics 101 (Mechanics), online at <https://uni-ac.com> , and with Teams

5- Physics 102

Teaching physics 102 (Electricity and magnetism), online at <https://uni-ac.com> , and with Teams

6- Electronic Devices

Teaching electronic Devices and semiconductors properties and behaviour , online at <https://uni-ac.com> , and with Teams

7- Physics Lab

Teaching All physics lab online in corona time , online at <https://uni-ac.com> , and with Teams

Certificates /
Attendance Certificates /
Certificates of Recognition

- Ranking first on the level of the Jordanian universities in the ***proficiency test*** for physics in **2006** (GRE-ETS major field tests).
- Intensive ***TOEFL course*** **2004**(Modern Language Center).
- International ***TOEFL test*** **2004** (Expired)
- ***International Computer Driving License (ICDL)*** in English (**2008**) / version 4.
- '***Certificate of Recognition***' for participating in the Commission of Science in the south of Amman (**2009/2010**)
- '***Certificate of Recognition***' for participating in the Commission of Science in the south of Amman (**2010/2011**)
- '***Certificate of Recognition***' for meritorious performance at school **2010** (UNRWA)
- Participating in the fourth Arab Open tournament for the **Robot** in Jordan (**2011**)
- '***Certificate of Recognition***' for meritorious performance at school **2011** (UNRWA)
- Participated in the ***contest creative teaching the concept of science teachers*** and got seventh place at the level of UNRWA. (**2011**)
- '***Certificate of Recognition***' for meritorious performance at school **2012** (UNRWA)
- '***Certificate of Recognition***' in the ***Photography workshop*** with Shawish Production (**2012**)
- '***Certificate of Attendance*** ' in the ***Adobe Photoshop cs6 – nondestructive editing*** (**2012**)
- UNRWA Ethic's eLearning course (**2013**).
- '***Certificate of Attendance***' in the ***Orientation program*** for new faculty - Salman bin Abdul-Aziz university (**2013**)
- '***Certificate of Attendance***' in the ***Writing scientific researches papers in international journals*** - Salman bin Abdul-Aziz university (**2013**)
- '***Certificate of Appreciation***' for conducting an intensive training course for the teaching staff of Preparatory Year Deanship "***Wolfram Mathematica 9***" and preparing course material. (2014)
- Participated in the ***Prize of distinguished teaching performance (1)*** and got **second** place at the level of **Price Sattam bin Abdulaziz University** and its satellite branches. (**2015**)
- '***Certificate of Attendance***' in the ***course Specification and report according to NCAAA new template*** for new faculty - Salman bin Abdul-Aziz university (**2016**)

Conducted Workshops

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|--------------------|--|---------------|
| 2016 | Prince Sattam Bin Abdulaziz University – PYP | KSA |
| | <ul style="list-style-type: none"> • Introductory workshop to " Wolfram Mathematica 9" at Prince Sattam bin Abdulaziz University Preparing the material of the training course. | |
| May 2014 | Prince Sattam Bin Abdulaziz University – PYP | KSA |
| | <ul style="list-style-type: none"> • Training staff of the preparatory year deanship Intensive training course " Wolfram Mathematica 9" at Salman bin Abdulaziz University for 30 hours • Preparing the material of the training course. | |
| 2012 - 2013 | UNRWA | Jordan |
| | <ul style="list-style-type: none"> • Training science teachers in UNRWA /South Amman in using virtual – simulation science lab (Crocodile physics and chemistry) and producing a video tutorial for that and producing interactive learning materials. • Uploading e-learning videos to my YouTube channel
https://www.youtube.com/learningafkar | |
| 2010 - 2011 | Robot Team Trainer/ Ruwwad. | Jordan |
| | <ul style="list-style-type: none"> • Training girls in installation and programming the robot. • Participating in the Fourth Arab Open Tournament for the Robot in Jordan | |

Training Courses

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|--------------------|--|---------------|
| 2007 - 2010 | University of Jordan. | Jordan |
| | <ul style="list-style-type: none"> • Assisted my professors in the scientific research by preparing samples of thin films at the University of Jordan. • Training within a course, methods for thin-film preparation, characterization, modulation and applications | |
| 2004 | Preparing for TOEFL / Modern Language Center. | Jordan |
| | <ul style="list-style-type: none"> • Trained for TOEFL test and its strategies. | |

Personal Skills

Computer and Internet:

- **Scientific programs:** Very experienced in using **Matlab, Mathematica, Origin, Wien2k, Grasp2k, Abinit, LaTeX**
- **Software:** Wide experience in **Microsoft Office, designing programs, multimedia** and a lot of computer programs.

- **Internet and websites:** Create *websites, forums* and develop them.
- **Operating Systems:** All *Microsoft* versions (Professional) and *LINUX* – Ubuntu (very good)

Modeling

- Using *MVC1* and *MVC2* toolboxes (*MVC1* = **multivariate calibration first order**) and implant them to *Matlab*, *MVC1* and *MVC2* can be downloaded from (www.chemometry.com).
- Using *Mathematica* standalone and Packages as *modeling* program, such as *QDENSITY* and *QCWAVE Package* that work with quantum problems.

E-learning

- Preparing *computerized interactive lessons* in several styles
- Preparing online *exams, quizzes* and *problems bank*, that show results at the end of the exam.
- Preparing worksheets that contain many question types and strategies

References

- **Dr. Mufied M. Al-Maghrabi**, Associate Professor, *The Hashemite University*, Department of physics, muf.mug@hu.edu.jo, +962(05)3903333 – 4600, **Jordan**
- **Dr. Rami M. Ali**, Associate Professor, *The University of Jordan*, ramimali@ju.edu.jo, +962-6-5355000 ext.: 22050, **Jordan**
- **Dr. Mahmoud I. Jaghoub**, Professor, *The University of Jordan*, Department of physics, mjaghoub@ju.edu.jo, + 962-6-5355000 ext.: 22023, **Jordan**
- **Dr. Yahya Salem Al-Degs**, Associate Professor, *The Hashemite University*, Department of Chemistry, yahya@hu.edu.jo, +962(05)3903333 – 4742, **Jordan**
- **Dr. Amjad H. El-Sheikh**, Associate Professor, *The Hashemite University*, Department of Chemistry, yahya@hu.edu.jo, +962(05)3903333 – 4640, **Jordan**
- **Dr. Mshari Alotaibi**, Dean of the preparatory year deanship, Associate Professor, *Prince Sattam bin Abdulaziz University*, alosauri@psau.edu.sa, +966(05)55103382, **KSA**

Latest News

- **Prize of distinguished Teaching Performance (1) (2015)**
<https://dpy.psau.edu.sa/ar/news/3491>
<http://www.alriyadh.com/1095607>

the video of the teaching lesson that participated in the prize is available on <https://goo.gl/ALH5od>

- **The Jordanian universities in the proficiency test for physics - 2006 (1st Place Rep)**
Addustour 25/6/2006
<http://goo.gl/jjE80H>