

# Advanced Training Programs In Higher Education and Scientific Research



“  
For Those Who  
Fight for It, Life  
Has A Flavor,  
The Sheltered  
Will Never Know  
“

Theodore Roosevelt

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# Welcome To The International level of Higher Education and Scientific Research

I am Dr. Omar Hussein Salman, born in Baghdad-Iraq 1983, graduated from gifted secondary in Baghdad with diploma in 2001 then I joined Al Nahrain University and graduated with B.Sc. in Computer Engineering in 2004. I directly joined the Master program in the same university. I got M.Sc. degree in Computer Engineering in 2007.

In 2008, I joined the Iraqi University as assistant lecturer. In 2011, I joined University Putra Malaysia (UPM) where I worked towards my Ph.D. degree in Computer Systems Engineering. In 2013 I got Patent in Telemedicine system, I published articles, participated in conferences, workshops and exhibitions. In 2016 I got the Ph.D.

In 2016 I resumed my career in Al-Iraqia University/ Engineering College/ Network department as lecturer. In 2018, I lead the Iraqi Team to participate in Huawei Information and Technology Competition (ICT) in China / Huawei HQ. We won the First Prize among 18 teams from Middle East, and I got the Excellent tutor prize. Moreover, in 2019 and among 29 international teams, we won the 3<sup>rd</sup> prize in China too. I joined UTAS-Ibri in 2022.

Based on my patent research directions more than 13 postgraduate students got their PhD and master's degrees. They published many high impact articles.


I have more than 8 articles published in Q1 Clarivate journals. I have more than 600 citations.

In 2019, I created this program to gather all the updated information, advice, recommendations, and regulations for high impact factor scientific research and presented them in one comprehensive program. Consequently, the participant will understand the major concepts for research methodology and for sure, the participant can put his/her research train on the right rail.

My research interests include algorithms, remote applications, bioinformatics, Telemedicine, Check it here:

<https://scholar.google.com/citations?user=mNJBnYAAAAJ&hl=en>

I care about the quality of research. I'm working hard to learn more. I keen on "Passing the Torch" to others.



## What do we offer?

We offer eight different training programs. The programs can be provided in one package. However, the programs can also be provided based on your demands.

All programs can be provided online mode except program 1 and 2 whereas those programs need direct engagement with audience in in person mode.

### ماذا نُقدم؟

نقدم لكم ثماني برامج تدريبية متكاملة ترتقي بمهام التعليم العالي والبحث العلمي بإمكاننا تقديمها كلها مرة واحدة كحقيبة تدريبية أو وفق مراحل محددة أو كبرامج منفصلة حسب الطلب.

بالإمكان تقديم كل البرامج عن طريق الآون لاين عدا البرنامج الأول والثاني التي تتطلب التفاعل المباشر والمشاركة مع الحضور.

1. **Program 1:** Advance Research Methodology Program  
دورة البحوث العلمية المتقدمة بطريقة تطبيقية تفاعلية (A.R.M.)

2. **Program 2:** High Impact Factor Journal  
تحضير البحوث للمجلات العالمية بطريقة عملية

3. **Program 3:** Literature Review السابقة  
جمع وتحليل الدراسات السابقة

4. **Program 4:** Graduate Course Project  
مشاريع التخرج لطلبة البكالوريوس

5. **Program 5:** Machine Learning in Healthcare  
دور تعلم الآلة في المجال الطبي

6. **Program 6:** Scientific tools and Web Services  
الأدوات والخدمات الرقمية في مجال البحث العلمي

7. **Program 7:** Journal Life Cycle  
دورة حياة البحث في مسارات المجلات العالمية عالية التأثير

8. **Program 8:** Course delivery Plan  
صناعة وتحضير المناهج العلمية وفق معايير الجودة والتصنيفات العالمية

الايجاز الوصفي لكل برنامج موضوع في هذا التقرير وحسب الترتيب:

## Program 1: Advance Research Methodology Program (A.R.M.)

The program is composed of **4 days** with the following:

### Day 1: "Understanding the Concepts".

The participant will understand the following:

- Why we do scientific research?
- H-index: what? And how?
- Types of Publications?
- IEEE, Science Direct and Web of Science, what are they?
- Research article structure: Step by step
- Research Groups: specifications and Roles.
- Researcher Requirements.
- Recommendations for productive research plan.



Remember:

*"Struggling is  
Before Success  
Even in  
Dictionary"*

### Day 2: "Fundamentals of High impact research".

The participant will understand the following:

- How to find problem statement?
- Literature review analysis: how? And why?
- What is benchmark? How can I find it?
- Critical review analyses.
- How to translate problem statement to objectives?
- How to write specific objectives?
- Problem definition, validation, and evaluation triangle.
- How to design your research methodology?
- What does the result mean?
- What is the significance of discussion and conclusion sections?

## Day 3:” Structure of Proposal Ph.D. and Master thesis”.

The participant will understand the following:

- Ch.1 layout and study model.
- CH. 2: Literature review framework and benchmark.
- CH.3: Research methodology
- CH.4: results and graphs.
- CH.5: Discussion and conclusions.
- Appendixes and references: notes and recommendations.

*Practical example: My Ph.D. thesis AND latest ISI article.*

Step by step, the participant can apply all those information and draw out his/her thesis structure.



*“Learning How to Do High Impact Factor Research, Has Positive Impacts on Your Attitude”.*

*I guarantee that.*

## Day 4:” Powerful Presentations”.

The participant will do presentation and I will evaluate the presentations:

- Academic staff do presentation for their research work.
- Ph.D. and MSc students do presentation for their research.
- Undergraduate students do presentation for their course project.
- Students who aim for scholarship do presentation for their proposal.
- R&D employee do presentation for their research and innovations.



## الفئات المَستهدفة للتدريب: *Targets:*

- الأساتذة الجامعيون الذين يرومون عمل بحوث ترقية بأيديهم.
- طلبة الدراسات العليا من الماجستير والدكتوراه والذين يريدون انتاج بحوث واطاريح ذات محتوى علمي عالي.
- الموظفون والطلاب الذين يرمون الحصول على بعثات والدراسة خارج العراق ليكون لهم استعداد دراسي و(Proposal) قوي.
- موظفي وزارة التعليم العالي وكل وزارات ومؤسسات الدولة ليكونوا على دراية بأهمية البحث العلمي.
- الموظفون في الشركات والقطاع الخاص الذي يرغبون في تقديم افكار وبحوث تطويرية ابداعية.



### *Training Requirements:*

- *In person Mode Training*
- *Four hours training: Morning or evening sessions.*
- *Coffee break*
- *Certificate of attendance: For all participants*
- *Certificate of Achievement: **Only** for those who do a very impressive presentation.*
- *Audio or video recording **is not** allowed.*
- *Publishing part of training in social **media is** allowed.*



## Program 2: High Impact Factor Journal

The program is composed of the following:

### Day 1 :” Structure of High Impact Research Article”.

The participant will understand the following:

- Choosing journal or Writing article, which one is first?
- How to write all sections of paper: (Title, abstract, intro., literature, results, and conclusion).
- How to write paragraphs and connect them?
- How to write a research title?
- How to submit paper (i.e., Paper documents)?
- Journal Life cycle: The roles of editor, reviewers.
- Article status in Editorial Manager System.

*Practical example: My latest articles. Step by step.*

### Day 2:” Journal Life Cycle”.

The participant will learn how to use the following

- What are the high impact journals?
- What is the article’s life cycle in the journal?
- Why is my article rejected? Who reject it?
- How to choose the optimal journal?
- How to prepare your article?
- What are the required supplement documents?

How should you do the revision version

### *الفئات المَستهدفة للتدريب* **Targets**

- الأساتذة الجامعيون الذين يرومون عمل بحوث ونشرها في مجلات ذات تصنيف عالي (كلاريفايت).
- طلبة الدراسات العليا من الماجستير والدكتوراه والذين يريدون انتاج بحوث ونشرها في مجلات عالمية ذات تصنيف عالي.
- موظفي وزارة التعليم العالي وكل وزارات ومؤسسات الدولة ليكونوا على دراية بخطوات نشر البحوث.

## Program 3: Literature Review

The program is composed of the following:

### Aim: " Systematic Review VS. Review Article".

The participant will understand the following:

- What is **Systematic Review**?
- What are the differences between Systematic Review VS. Review Article?
- Why should we do systematic review?
- How can 4 PhD / master students do one systematic review?
- Systematic review protocol.
- Systematic review structure.
- Design of "Bias Table".
- Systematic review documentation and submission.

*Practical example: My latest article. Step by step.*



### **Targets:** الفئات المَستهدفة للتدريب

- هذا البرنامج متقدم والفئة المستهدفة هم النُخبة البحثية العاملة.
- الأساتذة الجامعيون وطلبة الدراسات العليا من الماجستير والدكتوراه والذين يريدون انتاج عمل دراسات تحليلية للبحوث السابقة والوقوف على انتاجاتها.
- موظفي الشركات الذين يرومون تقديم افكار ومنتجات برامجية جديدة.



## Program 4: Graduate Course Project

The program is composed of the following

**Aim: " Powerful Project".** The participant will understand the following:

- Why we do research
- Thesis Structure: Step by step
- Research Groups: specifications and Roles.
- Researcher Requirements
- How to connect your work with your CV
- Structure of presentation.
- How to do full power Presentation.
- Presentations in conferences.
- Poster sessions and exhibitions.



### ***الْفَنَات الْمَسْتَهْدَفَة لِلتَدْرِيب: Targets:***

- طلبية البكالوريوس الذين يرومون عمل مشاريع تخرج ذات قيمة عليّة.
- طلاب لبكالوريوس الذين يريدون تحديث سيرتهم الذاتية (C.V.) بالخبرة العلمية والعملية من مشاريع التخرج
- رؤساء الاقسام والاساتذة في الكليات ل يكونوا على اطلاع باهمية بحوث التخرج لطلبة الدراسات الاولى.

## Program 5: Machine Learning in Healthcare

The program is composed of the following

### Aim: " The Role of machine learning in Healthcare and telemedicine".

The participant will understand the following:

- How can map the research area between machine learning and healthcare systems?
- What is the procedure for applying machine learning in healthcare applications: step -by-step?
- What are the challenges for utilizing machine learning in such applications?
- What are the performance metrics that should be used to evaluate the machine learning processes?
- What are the recommendations for intelligent systems?
- Review the input data.



- Review the outcome information of machine learning.
- Statistics and guidelines for healthcare systems.

*Practical example: My latest Q1 review article. Step by step*

### **Targets:** الفئات المستهدفة للتدريب

- هذا البرنامج متقدم والفئة المستهدفة هم النخبة البحثية العاملة في القطاع الصحي.
- الأساتذة الجامعيون وطلبة الدراسات العليا من الماجستير والدكتوراه والمتخصصون في التخصصات الطبية ذات العلاقة (E- , Biomedical Heath, Medical Engineering, Healthcare service)
- موظفي الشركات الذين يرومون تقديم افكار ومنتجات برامجية جديدة للقطاع الصحي من خلال استثمار الذكاء الاصطناعي.

## Program 6: Web Services

The program is composed of the following

### **Aim: " Productive Work with Scientific Web Services".**

The participant will learn how to use the following:

- How to do search on science direct / IEEE / Web of Science?
- How to do search and use Clarivate?
- How to search for journals?
- Journal match.
- How to get maximum benefits from Scopus?
- How to get maximum benefits from Google Scholar?
- Create alerts.
- What is Mendeley?
- Using Mendeley for document management.
- Using Mendeley for reference and citations.
- Research gate/ Publon/ ORCID identity.

*Hands on Session: Working directly online: Step-by Step.*



### **الفئات المُستهدفة للتدريب Targets**

- الأساتذة الجامعيون.
- طلبة الدراسات العليا من الماجستير والدكتوراه.
- موظفي وزارة التعليم العالي وكل وزارات ومؤسسات الدولة.
- كل المهتمون بالموضوع.

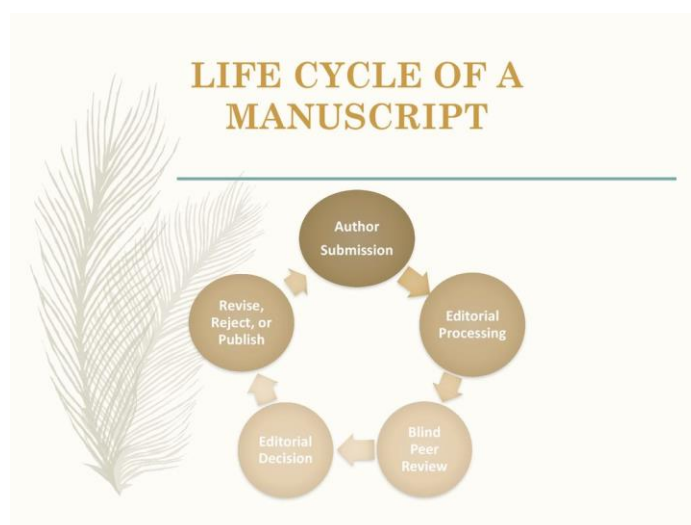
## Program 7:” Journal Life Cycle”

The program is composed of the following

### Aim:” Understand the process in High Impact Factor Journal”.

The participant will learn the following:

- What are the high impact journals?
- What is the article’s life cycle in the journal?
- Cover letter.
- Why is my article rejected? Who reject it?
- How to choose the optimal journal?
- How to prepare your article?
- What are the required supplement documents?
- How should you do the revision version?



*Hands on Session: My articles document step- by- Step*

### **الْفَنَات الْمَسْتَهْدَفَة لِلتَدْرِيب** *Targets*

- الأساتذة الجامعيون.
- طلبة الدراسات العليا من الماجستير والدكتوراه.
- موظفي وزارة التعليم العالي وكل وزارات ومؤسسات الدولة.
- كل المهتمون بالموضوع

## Program 8:” Course delivery Plan”

The program is composed of the following

### Aim:” Understand How to create a productive course for students”.

The participant will learn the following:

- What is Boom’s taxonomy
- Why we need to create course plan?
- How to set the learning outcomes?
- How to set the learning objective?
- How to design the course delivery plan?
- How to set the timetable?
- How we can motivate the student
- Learning and searching nexus.

سيتعلم المشاركون:

- مستويات التعلم العالمية.
- كيفية إعداد الاهداف والمُخرجات العلمية من المادة الدراسية.
- كيفية إعداد المنهج العلمي للمادة الدراسية وفق معايير الجودة العالمية.
- كيفية عمل خطة للمنهج.
- كيفية تنويع الأدوات التعلّمية والتعليمية بما يحفز الطلاب.



### الفئات المُستهدفة للتدريب *Targets*

- رؤساء الجامعات وعمداء الكليات ورؤساء الأقسام
- مسؤولي لجان الجودة ومقرري المناهج
- الأساتذة الجامعيون.