



C.V



Name: Suha Mousa Khorsheed Alawsy

Date of Birth: 2/8/1973

Religion: Muslim

Martial statues: married

No. of children: 2

Specialization: physics/optics

Position: Iraq/Baghdad

Scientific Degree: Assist professor

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- First, **Scientific Certification:**

Degree science	University	College	Date
B.Sc.	Al-nahrian	Science	١٩٩٥
M.Sc.	Al-nahrian	Science	٢٠٠٠
Ph.D.	Al-nahrian	Science	٢٠٠٧
Any other			

- **Second, Career:**

No.	Career	Workplace	From -To
١	Lecture in university	College of science/nahrian	2000 -2020
٢			
٣			
٤			
٥			
٦			

- **Third, University Teaching.**

No.	University	The (Institute / College)	From -To
1	Baghdad	Nuclear engineering	٢٠٠٢-١٩٩٦
2	Al –nahrian	College of science/physics	٢٠٢٠-٢٠٠٣

- **Fourth, Courses Which You Teach:**

No.	Department	Subject	Year
١	Computer language Basic	Under Graduate	١٩٩٦
٢	Computer language FORTRAN	Under Graduate	١٩٩٦
٣	Numerical analysis	Under Graduate	١٩٩٧
٤	Mechanics	Under Graduate	٢٠٠٧
٥	Geometrical optics	Under Graduate	٢٠١٠
٦	Physical optics	Under Graduate	٢٠١٠

٧	photonic	Post Graduate	٢٠١٥
٨	OPTICAL signals, system , and devices	Post Graduate	٢٠١٩
٩	Aberration theory	Post Graduate	٢٠١٩

- **Fifth, Thesis which was supervised by :**

No.	Thesis Title	Department	Year
١	Simulation of human eye using Genetic Algorithm	physics	٢٠٠٩
٢	Design of a Photonic Crystal Fibers Sensor	physics	٢٠١٦
٣	Detection of different explosive materials	physics	٢٠١٧
٤	DESIGN AND CONSTRUCTION OF REFRACTIVE INDEX SENSOR USING PHOTONIC CRYSTAL FIBER PCF	physics	٢٠١٧
٥	The Transmission Characteristic of Acousto-c Modulators for High Modulator Speed and	physics	٢٠١٧
٦	Simulation and implimentation for second harmonic generation of UV laser beam	physics	٢٠١٩
٧	Study the effect of the number regions of grating on the sensitivity	physics	٢٠١٩

- **Sixth, Conferences and Workshops which you participated:**

No.	Conferences Title	Year	Place	Type of Participation
1	Courses in fiber optics	٢٠١٧	Iraq	
2	Preparing cultural festivals such as the Women's Day and taf	٢٠١٥	Iraq	
3	Preparing a score card for graduates of the Department of Physics since 1991-2015	٢٠١٤	Iraq	
4	Patent 2017	٢٠١٧	Iraq	

5	I received the Science Day Award 2017	٢٠١٧	Iraq	
6	Participation in a workshop on renewable energies at the University of Kashan / Iran	٢٠١٨	Iran	
7	Conference of astronomy	٢٠١٠	Iraq	
٨	International conference of physics	٢٠١٤	Iraq	
٩	First conference of post Graduate	٢٠١٤	Iraq	
١٠	Second conference of post Graduate	٢٠١٥	Iraq	
١١	Third conference of post Graduate	٢٠١٦	Iraq	
١٢	Fourth conference of post Graduate	٢٠١٧	Iraq	
١٣	Fifth conference of post Graduate	٢٠١٨	Iraq	
١٤	Six conference of post Graduate	٢٠١٩	Iraq	
١٥	International conference of science	٢٠١٨	Iraq	

- **Seventh, Patents**

No	Patent	Country	Year
١	Mechanical Sleeves Method to Splice the Photonic Crystal Fiber (PCF) with the Single or Multimode Conventional Optical Fiber	Iraq	٢٠١٧

• **Eighth, Scientific Activities:**

Within the College	Outside the College
Taff First Festival	Participation in a workshop on renewable energies at the University of Kashan / Iran
Taff second Festival	The exhibition of innovations in the Baghdad
Taff third Festival	The fifteenth meeting of the
Taff Fourth Festival	The sixteenth meeting of the
Woman First Festival Woman second Festival Woman third Festival	Chair of a ministerial committee to open the Department of Optical Technologies at Uruk Private University

• **Ninth, Research Projects in The Field of Specialization to The Environment and Society or the Development of Education:**

No.	Research Title	Place of Publication	Year
1	Studying the Accuracy of Estimation Zernike Polynomial Coefficients for	Baghdad university	٢٠٠٩
2	MTF estimation for IR optical system	Baghdad university	٢٠١١
3	Modified fish eye design (2014	Dived puplishing	٢٠١٣
4	Effect of optical eccentricity of human on vision quality (2013)	Al-nahrian university	٢٠١٣
5	Cassagrian telescope design based on root- finding optimization (2015).	Baghdad university	٢٠١٥
6	Synthesis and refractive index characterization of EBBA liquid crystal (2016)	Al-nahrian university	٢٠١٦
7	Optical system design for human eye using genetic algorithm (2010).	Baghdad university	٢٠١٠
8	Detection of energetic materials by laser induced breakdown	India	٢٠١٧

9	Sensitivity enhancement of electric field sensor using PCF-1550 infiltrating by EBBA liquid crystal	India	२०१६
10	Dual Fluorescence Techniques for Explosive Detection System (2017).	India	२०१७
11	Concentration sensor design using wavelength shift based photonic crystal fiber (2017).	Baghdad university	२०१७
12	Modified Michelson Interferometer Design for Ear Measurement (2018)	India	२०१८
13	Second Harmonic Generation of 236.5 nm Laser Beam by BBO Crystal Using Comsol Software(2019)	Uruapan journal	२०१९
14	Second Harmonic Generation of 266nm Laser Beam by BBO Crystal Using Comsol Software	India	२०१९
15	Investigation of Performance for a Two Regions Superstructure Fiber Bragg Grating	Boland	२०१९
16	Refractive Index and Temperature Sensor Using HC-1550 Infiltrating by Different Liquid Crystal	China	२०१८
17	Transmission Characteristic Simulation of High Frequency Acousto-Optic Modulators	China	२०१८
18	Parameters Affect the Efficiency of Acousto-Optic Modulators	India	२०१८

• **Tenth , Membership:**

No	Name of Scientific Organization	Date	Country
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2			

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• Eleventh , Awards and Certificates of Appreciation:

No.	Name of Awards and Certificates	Donor	Year
١	Science Day Award	Al-nahrian university	٢٠١٧
٢	The number of thank-you books from the university president is 12	Al-nahrian university	٢٠٢٠-٢٠٠٨
٣	The number of thanks books from the dean is 30	Al-nahrian university	٢٠٢٠- ٢٠٠٨
٤	Discretionary certificates 10	Al-nahrian university	٢٠٢٠-٢٠١٢
٥	A certificate of appreciation from the Ministry of Culture	Ministry of Culture	٢٠١٨
٦	Discretionary certificate and necklace for the female inventor	the Chemical Institute	٢٠١٨

• Twelfth , Scientific literature:

No.	Scientific Literature Title	Year of The Publication
١		
٢		
٣		

• Thirteen, languages:

- ✓ Arabic
- ✓ English

• Fourteen, Academic Websites for Researcher

no	Website name	Link
1	suhaalawsi@gmail.com	
2	smk@nahrianuniv.ed.iq	
3		
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***Note: - Make a copy on CD.**

