‘European Quality Standards Conference in Education and Training’

6-9 May 2022

Appling of quality standards in developing the alumni skills and innovations serves and builds the society

- Prof. Dr. Hamza Jasim Salman Al-Mamoori/ College of Eng.
- Prof. Dr. Nizar Jawad Hadi / College of Materials Eng.
- University of Babylon / Iraq

- 2021-2022

Motivations:

1-Following quality standards in any of the skill areas will earn it reliability, credibility, continuity, development, availability and safety.

2-Creating new job opportunities in several fields

3-The high ranking of universities and institutes to which the graduates belong according to international standards QS.

4-Enabling graduates to compete in the labor world of work(WoW) , which has become in line with quality requirements.

5-Enabling graduates to implement their ideas and projects on their own.

6-Encouraging and persuading students in the classroom.

7-Enhancing the concept of innovation, creativity and distinction through quality standards or extinction

8- Developing skills with quality standards is more important and more beneficial than obtaining a certificate only .

9-Improving the degree of quality standards for higher education in general

10-Creating a stable and developing business and economy that attracts young graduates

11-Building trust between universities and the community

12-Establishing partnerships and building plans between the private sector, universities and institutes to face future challenges

13-Gaining global trust and accreditation.

14-Keeping young people away from thinking about immigration, terrorism, criminality, delinquency, and falling into the arms of illegal organizations.

Activities:
1-Conferences, seminars, workshops, and courses



Symposium

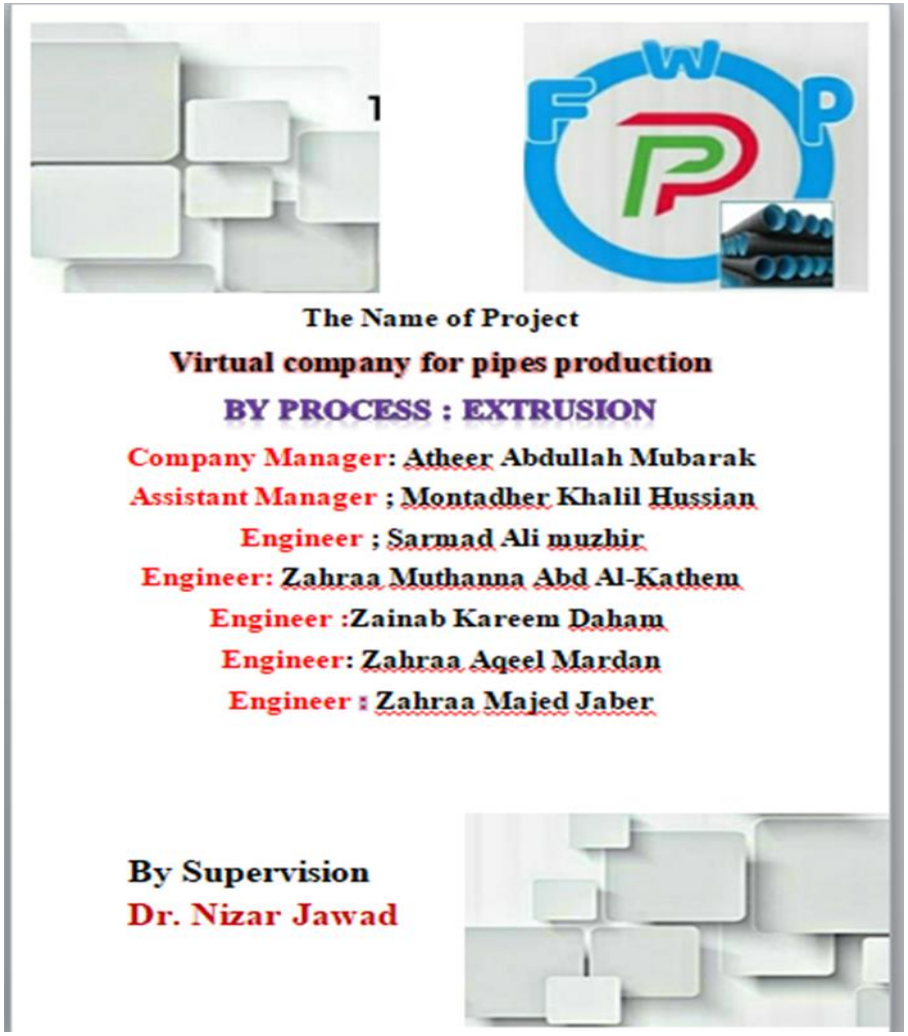



برعاية السيد عميد كلية هندسة المواد
أ. د. نزار جواد الاعرجي المحترم
(الكنورفيل وتطبيقاته الصناعية والطبية)

Courses



2-Virtual Companies



The Name of Project

Virtual company for pipes production

BY PROCESS : EXTRUSION

Company Manager: Atheer Abdullah Mubarak

Assistant Manager ; Montadher Khalil Hussian

Engineer ; Sarmad Ali muzhir

Engineer: Zahraa Muthanna Abd Al-Kathem

Engineer :Zainab Kareem Daham

Engineer: Zahraa Aqeel Mardan

Engineer : Zahraa Majed Jaber

By Supervision

Dr. Nizar Jawad

Company manager: Atheer Abdullah Mubarak (general supervision) ;

After the meeting that took place between me and my fellow engineers, we decided to establish a company to produce water pipes, and we preferred high-density polyethylene over PVC because PVC has toxicity. We named the company the future company of water pipes and put a logo for it. This suits the company to the giant.



And now we will get acquainted with the assistant manager and the company's engineers with their jobs

Engineer Zahraa Muthanna (locating and building it)

After researching and looking at the appropriate places to build a complete plant and provide all the necessary facilities for it (such as warehouses, caravans and transformers) The location of the company and factory building was determined in Shomali in Babil Governorate, with an area of (3 dunums), which is close to the Euphrates River, to make use of the water to feed the plant.



Assistant Manager Engineer.Montadher Khalil (corresponding to the company and purchasing the material)

I started searching for several highly efficient companies, and after continuous research, I reached SABIC for the production of petrochemical materials, and after a consultation between the manager and the engineers, we decided to massage them to request and purchase high-density polyethylene granules in a quantity It is three tons with special determinants, for example, the values of molecular weight and density, and I also requested blue colored materials It is added in the extrusion machine, which has no disadvantages that affect the properties of the resulting tubes. he picture below shows the company's correspondence via its official e-mail and requesting the material from it.

Dear SABIC Company:

I'm Montadher Khalil
live from Iraq
I study in the College of Materials Engineering
Department / Polymer and Petrochemical industries
At the University of Babylon
I have a joint venture with my group to manufacture water pipes
It's name: The Future Company Of Water pipes. Therefore, I want to order some materials:
The high density polyethylene granules according to the specifications that I will mention to you
The quantity of the material is
3 tons
MW = 3.1 Million Dalton
Colored materials = Special blue
In addition to the image below

تم الإرسال من Galaxy الخاص بي

صفر واحد (٢٠٠ ق.ب/٢٤/٧ م.ب)

Property (PE100 +)	Test Method	Test Method
Density (Compound)	959 kg/m3	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/5.0 kg)	0,25 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.100 MPa	ISO 527-2
Tensile Strain at Break	> 600 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Carbon black content	> 2 %	ASTM D 1603
Carbon black dispersion	<3	ISO 18553
Oxidation Induction Time (200 °C)	> 20 min	EN 728
Resistance to rapid crack propagation (S4 test, Ps at 0 °C,Test pipe 250 mm, SDR11)	> 10 bar	ISO 13477
Resistance to slow crack growth (9,2 bar, 80 °C)	> 1.000 h	ISO 13479

Engineer Zainab Karim (examination of the raw material)

after the company's assistant, Engineer Montadher, purchased the high-density polyethylene material. After arriving at a company, I took four grams of the substance to verify the identity of the substance and its characteristics. Is it the same as the MFR, the required parameters or not? Then several tests were carried out, including tensile selection, density test, and test. The values appeared very close to the values we requested. In the image below, the devices used in the laboratory.





Engineer Zahraa Majed (Store Materials)

After confirming the specifications of the required material, the process of storing and maintaining them in the appropriate conditions for them such as temperatures, pressure and other conditions, where they were placed in the place designated for them within the laboratory, which contains all the required conditions and the provision of appropriate security conditions and tightening guarding her. .



Engineer Zahraa Aqeel (purchase the machine and responsible for the machine

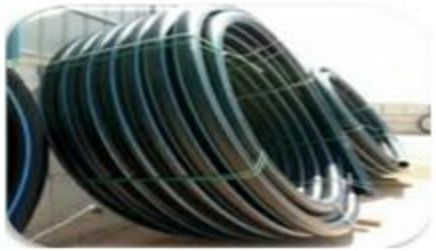
After the foundation of the project was laid from the site and the materials were brought, it became necessary to have the machine, which is an important part of the project and it is not possible to move forward without it. After reviewing all the machines, a selection was made of a machine containing the appropriate specifications of technology and an appropriate price, as the company that exported it was contacted.





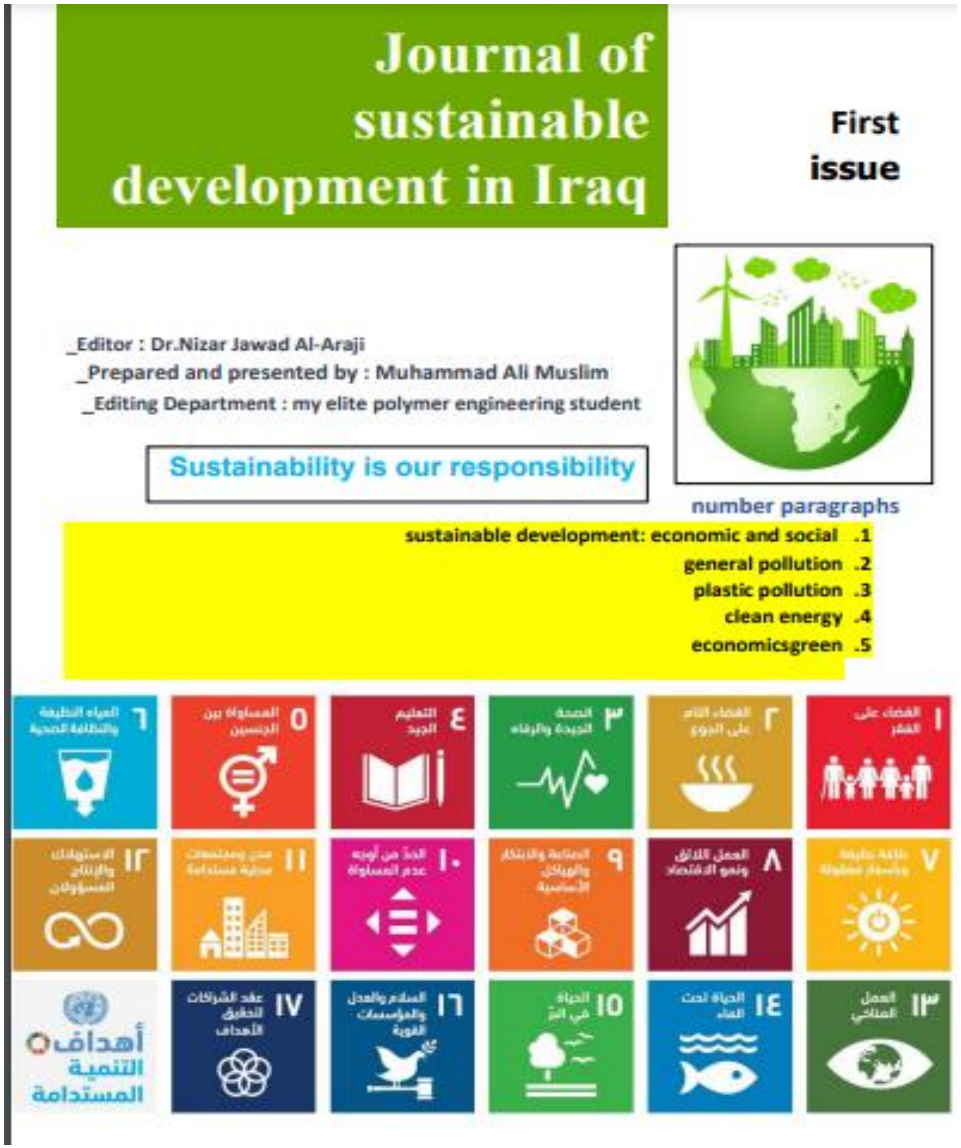
Engineer Sarmad Ali (Product and Marketing Examination)

After the production of the tubes, they must be examined and their quality known before they are put for marketing. For this, a sample of the tubes was taken and passed several tests to ensure the safety of the product. We obtained excellent results in competition in the local markets. So engineer Sarmad was responsible for the marketing mechanism, where an agreement was reached with a number of companies and agents to buy the tubes at fairly reasonable prices.





3-Scientific Journals



Sustainable development: its concept, development, and models

[Prepared by the student: Zainab Jadallah Sami]

sustainable development:year 1713

- Wood is no less important than our daily bread, so it must be used with care, and in a way that strikes a balance between its growth and its exploitation.
- "Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their needs."

CommonParagraph

- The concept of sustainable development
- The historical background of sustainable development
- sustainable development models

Sustainable development: its concept

- Sustainable development aims to achieve a balance between

The different and sometimes contradictory needs on the one hand, and the awareness of the environmental, societal and economic limitations that we face as a society on the other hand.

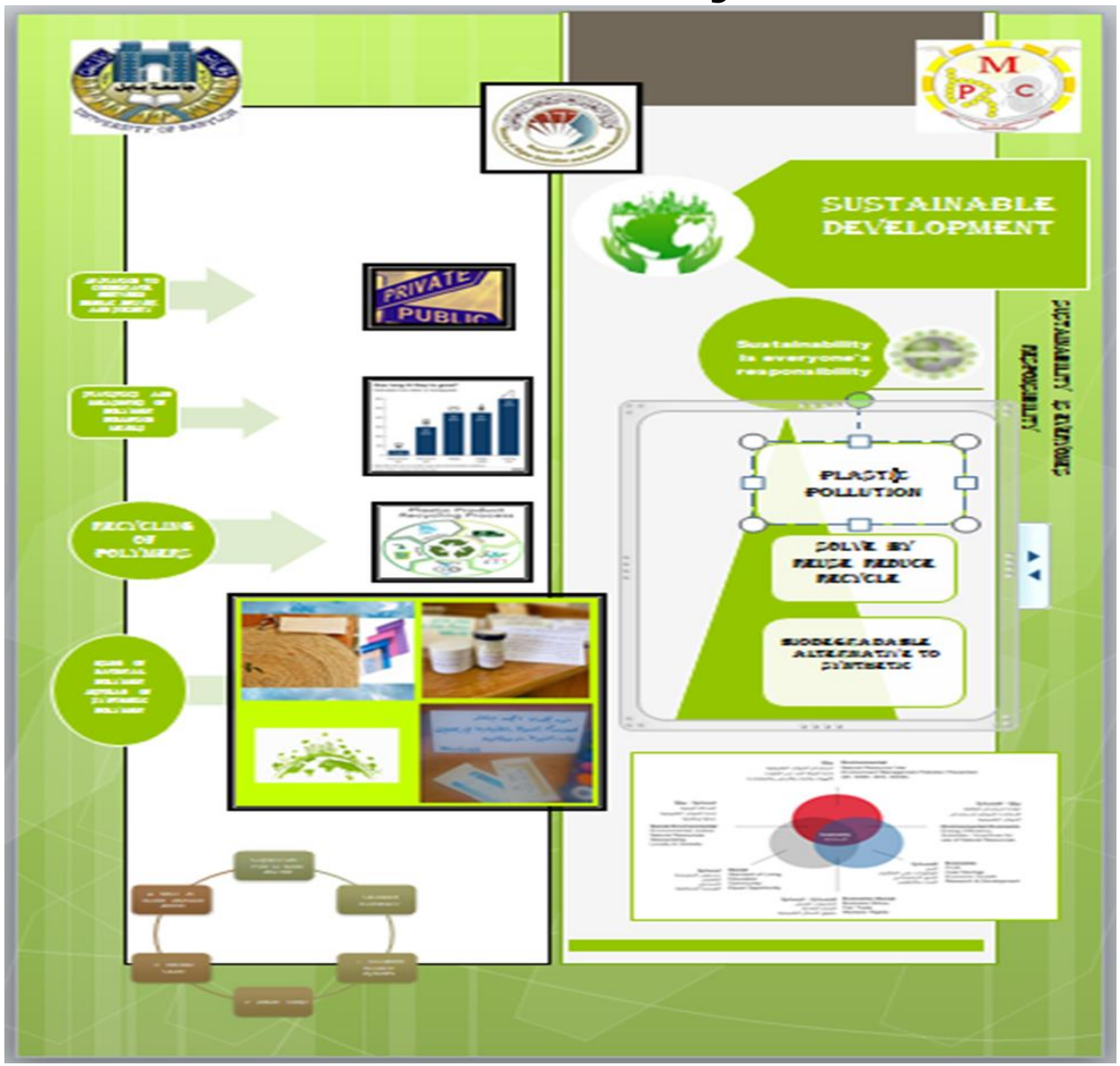


- Sustainable development is a method of change in which both
  - exploitation of resources
  - directing investments
  - guiding technological development
  - institutional change

In unison to enhance current and future capabilities to meet people's needs and aspirations.

sustainable development:

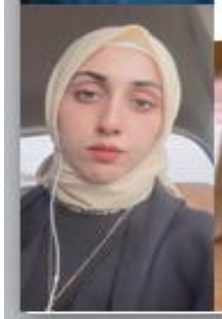
4-Sustainable Projects Ideas



SUSTAINABILITY IS EVERY ONE RESPONSIBILITY









The palm frond basket is an alternative to the plastic basket For a better life free of plastic consumption and pollution, it is sustainable

Meet the needs of current generations and think about future generations. It is sustainable development

Supervisor: Prof.Dr.Nizar Jawad
Prepared by the student: Shafag Haref Theban



Sustainable Development University of Babylon /College of Materials Engineering/ Department of Polymers and Petrochemical Industries

University of Babylon
College of Materials Engineering and
Petrochemical Industries
Supervised by : Prof.Dr.Nizar Jawad

Controlling on plastic pollution levels

Paper bags



instead

Plastic bags



Name: Nabaa Ahmed Hussain

University of Babylon
College of Materials Eng.// Polymers and
. Petrochemical Industries Dept
Prof.Dr.Nizar Jawad :Supervised by

Statistics and measures of polymer pollution levels.

Sustainability is the ability to conserve the natural world and the responsible use of natural resources

Bamboo wood



))instead of))



Plastic glasses frame

Name: Shahla Firas Hadi



University of Babylon
College of Materials Engineering
Department of Polymers and
Petrochemical Industries

Sustainability is the balance between the environment and the economy

Nylon rope





Natural fiber rope



Plastic phone cover





Natural gelatin cover

Supervisor:
Prof.Dr.Nizar Jawad

By :
- Sajad Abd Alabbas
- Ali Laith Naser

Environmental sustainability

It is the preservation and continuity of life, through the correct use of natural resources such as the sun, air, water and soil.

Objectives:

- Achieving food security.
- Reducing poverty and hunger
- Overcoming the effects of climate change.

Sustainability is the ability to improve the life you live in the long term

College of Materials Eng./ Polymers and Petrochemical Industries Dept.

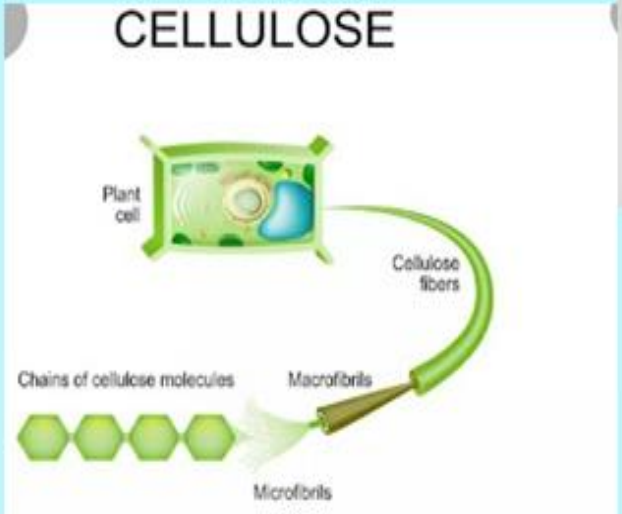
Supervised by :
Prof.Dr.Nizar Jawad

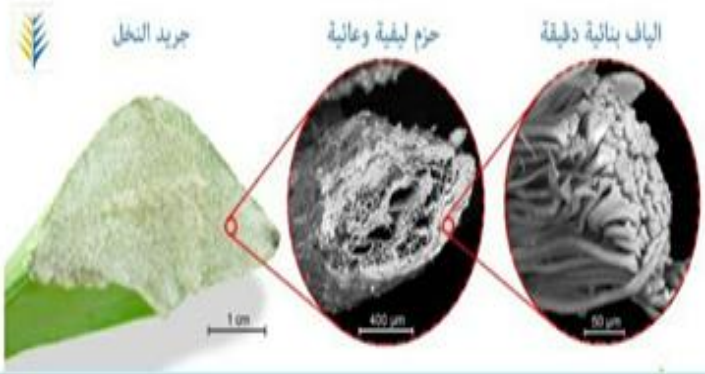
Subject: The use of universal cellulose fibers instead of glass fibers in the interior parts of the car for sound and heat insulation



Glass fibers







Name: Howra Yusef



University of Babylon
Faculty of Materials Engineering
Department of Polymer and
Petrochemical Industries
Supervised by: Prof.Dr.Nizar Jawad





Using natural aloe vera gel for hair styling is an alternative to artificial gel



Sustainability is the study of how natural systems function, diversify and produce everything the natural environment needs to remain in balance.





Using reeds in calligraphy is an alternative to artificial pens

Preparation
Sajad Dhiaa Safi \\ Nihad Silabie Jassim

SUSTAINABILITY IS EVERY ONE RESPONSIBILITY









"I use wood boxes alternative plastic boxes"

-For a better life free from consumption and plastic pollution it is sustainability
Going back to the past is solving the problems of the present. Thinking about the present prepares us for the future. It is sustainable development.

Prepared by Student: Fatima Salam Makki
Supervised: Prof.Dr.Nizar Jawad

University of Babylon/ College of Materials Eng./ Polymers and Petrochemical Industries Dept





sustainability

Polymers Department

University of Babylon

To create a safer future for next generation.



Instead of



The wooden comb is better than the plastic comb, as it does not expose the hair with it to tension, which leads to its fall and breakage, and it is safer for the layers of the skin and does not leave any damage to the person in the future.

Prepared: Maryam Aqeel Safi
Supervised:Prof.Dr.Nizar Jawad

University of Babylon
Faculty of Materials Engineering
Department of Polymers and Petrochemical Industries

Sustainable Development. .Statistics and measures of ..polymer pollution levels

Sustainable development is meeting the needs of the present generation and thinking about future generations

Paper cups instead of plastic cups





Wood ruler instead of plastic



Supervised by
Prof.Dr.Nizar Jawad
Preparation
Zainab Jadallah
Sami // Jihan
Hassan Idan

5-Publishing researches, authoring books and obtaining patents

Materials Today: Proceedings xxx (xxxx) xxx

Contents lists available at ScienceDirect

Materials Today: Proceedings

journal homepage: www.elsevier.com/locate/matpr

Effect of rheological properties of (Poly vinyl alcohol/Dextrin/Naproxen) emulsion on the performance of drug encapsulated nanofibers

Diana Faris, Nizar Jawad Hadi, Salih Abbas Habeeb *,1

Department of Polymer and Petrochemical Industries Engineering College of Materials Engineering, University of Babylon, Iraq

ARTICLE INFO

Article history:
Available online xxxx

Keywords:
Rheological properties
Electrospinning
Nanofibers
Nanofibers' characterization
Drug delivery systems
Nanofiber alignment

ABSTRACT

This study focuses on the effect of the rheological properties of the polymer solution on its nanofibers' characteristics. Various Polyvinyl alcohol (PVA) concentrations have been added to a constant ratio of Dextrin and Naproxen (NAP). Nanofiber morphology was examined using scanning electron microscopy (SEM), differential scanning calorimetry (DSC), and Fourier-transform infrared spectroscopy (FTIR) devices. The results showed that the solutions' non-Newtonian nature reduces the shear viscosity by increasing the shear rate for all solutions. The SEM micrograph and DSC thermograms show that the diameter, alignment, and the glass transition temperature (Tg) of the nanofiber improved with an increase in PVA concentrations.
© 2021 Elsevier Ltd. All rights reserved.
Selection and peer-review under responsibility of the scientific committee of the 3rd International Conference on Materials Engineering & Science.

1. Introduction

Electrospinning is one of the most methods of manufacturing polymers as nanofibers, is a straightforward approach that produces a continuous thin fiber film with micro to nanoscale diameter relationship between the shear viscosity and the shear rate of the polymeric solution, besides the study of the direct relationship between the rheological properties such as shear viscosity, electrical conductivity, the surface tension of the polymeric solution and the polymer concentration [7]. Highly concentrated solutions make

Nano World Journal

https://doi.org/10.17756/nwj.2020-080

Research Article

Open Access

Effect of Titanium Dioxide Nanoparticles (TiO_2 NPs) on Rheological Characteristics Behavior of Poly Vinyl Acetate (PVAc)

Akram Jassim Jawad[1,2*], Ahmed Ehsan Jassim[2] and Nizar Jawad Hadi[2]

[1]*School of Engineering and Materials Science, Queen Mary University of London, London, UK*

[2]*College of Materials Engineering, Department of Polymers and Petrochemical Industries, University of Babylon, Al Hillah, Iraq*

***Correspondence to:**
Akram Jassim Jawad
School of Engineering and Materials Science
Queen Mary University of London, London, UK
College of Materials Engineering
Department of Polymers and Petrochemical Industries
University of Babylon, Al Hillah, Iraq

Received: September 21, 2020
Accepted: November 17, 2020
Published: November 18, 2020

Citation: Jawad AJ. 2020. Effect of Titanium Dioxide Nanoparticles (TiO_2 NPs) on Rheological Characteristics Behavior of Poly Vinyl Acetate (PVAc). *Nano World J* 6(3): 61-65.

Copyright: © 2020 Jawad. This is an Open Access article distributed under the terms of the Creative Commons Attribution 4.0 International License

Abstract

Rheological properties investigation of polymer solution with inorganic nanoparticles aqueous mixtures were studied. In the present work, Polyvinyl Acetate (PVAc) was used in a form aqueous solution, while titanium dioxide nanoparticles (TiO_2) was used as an inorganic additive. PVAc was loaded with 0, 0.5, 1, 2, 3, and 4 weight percent (wt. %) of TiO_2 nanoparticles, where the maximum concentration of TiO_2 was 4 wt. % that gives the enough information about the behaviour. Cone on plate Rheometer was applied to measure rheological characteristics of PVAc/TiO_2 mixture flow at different shear rates, while Tensometer, pH meter, and Densitometer were used to peer understanding of flow mechanisms. The results were shown a significant change in shear stress-shear rate behavior with the TiO_2 ratio increasing, especially at 2-3 wt. %. The shear stress decreasing with the shear rate increases. The viscosity tends to decrease with the high shear rate values about 1.14-1.3 s-1 in low concentration of TiO_2 nanoparticles about 0.5 wt. %. The pH and surface tension values show an interesting decreasing overall range of PVAc/TiO_2 nanoparticles. These results have an important effect on processing and capability production in polymer

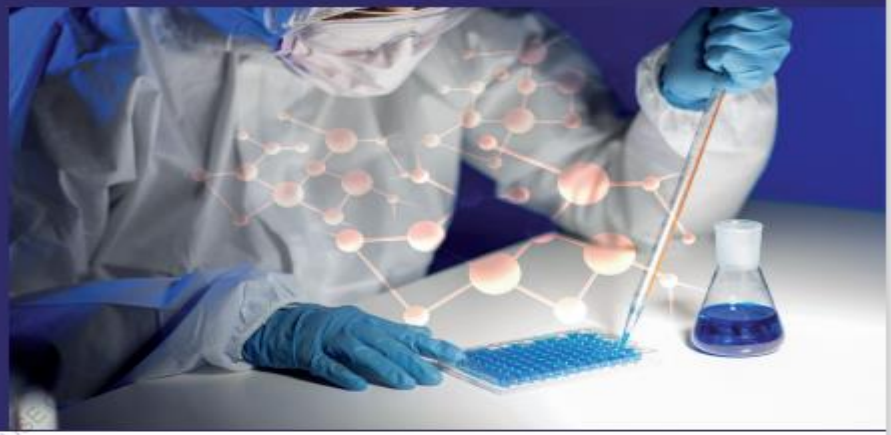
Natural polymers are superior compared with synthetic polymers when used in medical applications, especially if they are already present in the human body.The current work involves the production of microspheres from bio-natural polymer (Dextrin maize starch) as primary material and Poly (vinyl alcohol) PVA or PEG by using aqueous two phase system (ATPS) technique. PEG and PVA of 2, 2.5, 3 wt% was mixed with 18% Dextrin using sonication process and then stirred for 20 hr at 5°C. Different samples taken after 4, 8, 12, 16, and 20 hr during stirring process for each concentration.The effect of changing the rheological properties on the specification conditions similar to human body conditions (PBS, pH = 7.4, T = 37 °C) and stability studied. Microspheres were also, loaded by insulin and study the effect of changing pH to simulate body conditions and release control.Optical Microscope (OM), Atomic Force Microscope (AFM), Cone-plate, Zeta Potential (ZP), Fourier Transform Infrared (FTIR), Dynamic light Scattering (DLS), pH Matter, Scanning Electron Microscope (SEM) and Ultra Violet (UV) characterizations techniques have been used to characterize the microspheres.

Ms. Sarah Kareem Mohammed, Dr. Nizar Jawad Hadi, Dr. Auda Jabbar Braihi. Department of Polymers/ College of Material Engineering/ University of Babylon, Babil, IRAQ.

978-620-0-43516-3

FOR AUTHOR USE

Kareem Mohammed, Jawad Hadi, Jabar Braihi



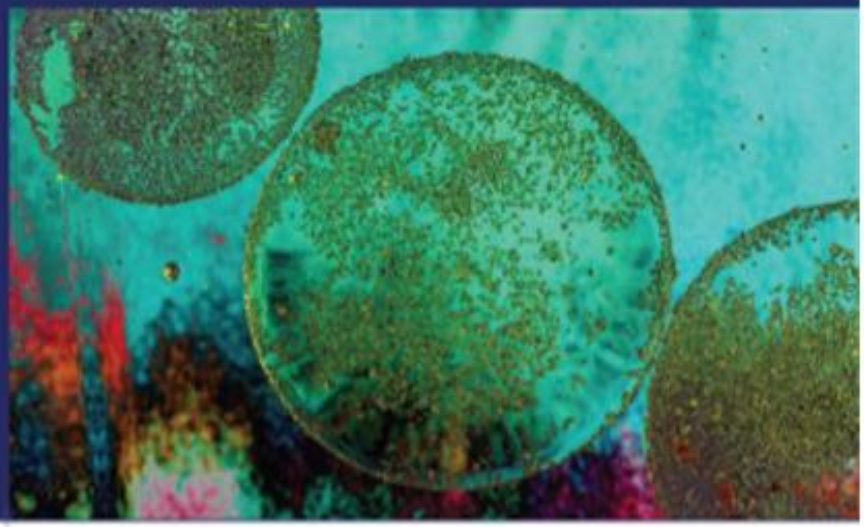
Sarah Kareem Mohammed
Nizar Jawad Hadi
Auda Jabar Braihi

Polymers in Medical Application

Bio-Ploymers Microsphere for Drug Delivery System

LAP LAMBERT Academic Publishing

This book dealing with connecting the science of microfluidic rheology and the bio-polymer composite materials, to create bio-polymer microspheres made from natural sources. The microspheres morphology produced using the microfluidic device varied as flow rate decreased. This create many shapes of microspheres that acted individually for each flow rate. The degradation of these microspheres had been affected by the shape changing of each microsphere. The microspheres producing process simulated to define the causes by which the microspheres behaved individually for each case as decomposed in PBS.





My name is Roaa Mohammed Muneer, I am a material engineer having Ph. D. in polymers and petrochemical engineering, age 31. I made my dream became true by studying day and night. My biggest dream is to teach this amazing science in well known universities. I wish to spread my work to help the drug delivery researchers.

978-620-2-67612-0

FOR AUTHOR

Mohammed Muneer, Jawad Hadi, Al-Zubiedy

Roaa Mohammed Muneer
Nizar Jawad Hadi
Ali Al-Zubiedy

Rheological Properties of Potato Starch Microspheres

Experimental and Numerical Study of Rheological Properties of Microspheres Prepared Using Microfluidic Device

LAP LAMBERT Academic Publishing



الجهاز المركزي للتقييس والسيطرة النوعية

براءة اختراع

(12)

(11) رقم البراءة : 6220
(51) التصنيف الدولي : C0 9K8/24 C09K2208/10
(21) رقم الطلب : 2019/212
(22) تاريخ تقديم الطلب: 2019/3/25
(30) تاريخ طلب الأسبقية - بلد الأسبقية - رقم طلب الأسبقية
(52) التصنيف العراقي 4
(45) تاريخ منح البراءة: 2020/3/11

(72) اسم المخترع وعنوانه :
1- المهندسة سجى حيدر محمد / بابل - حلة - حي الحسين -قرب مطعم سومر
2- ا.د.نزار جواد هادي / جامعة بابل - كلية هندسة المواد
3- ا.د.محمد حمزة دحام المعموري / جامعة بابل- كلية هندسة المواد
4- ر.فيزياويين .اقدم .رائد كامل بطرس / وزارة النفط -شركة نفط البصرة -قسم البحوث والسيطرة النوعية

(73) اسم صاحب البراءة : الـــــذوات اعـــلاه

(74) اسم الـــوكيل:

(54) تسمية الأختراع:
استخدام مادة بوليميرية متراكبة لتحسين استخراج النفط المتبقي من المكامن النفطية في جنوب العراق وتطبيقها عمليا وعدديا .

منحت هذه البراءة استنـــادا لأحكام المـادة (21) من قانون براءة الأختراع والنماذج الصناعية رقم (65) لسنة 1970 المعدل وعلى مسؤولية المخترع.

C.O.S.Q.C
IRAQ



(19) IQ
جمهورية العراق
وزارة التخطيط
الجهاز المركزي للتقييس والسيطرة النوعية

(13) براءة اختراع

(12) اللغة العربية

(11) رقم البراءة : 6757
(51) التصنيف الدولي C08J3/03 A61L27/50
(21) رقم الطلب : 2019/162
(22) تاريخ تقديم الطلب 2019/3/10
(52) التصنيف العراقي 4
(30) تاريخ طلب الأسبقية - بلد الأسبقية - رقم طلب الأسبقية
(45) تاريخ منح البراءة: 2021/8/25

(72) اسم المخترع وعنوانه :
1-أ.د. نزار جواد هادي /جامعة بابل / كلية هندسة المواد
2- أ.م.د. عودة جبار بريهي / جامعة بابل /كلية هندسة المواد
3- م.م.سارة كريم محمد / كلية الزهراوي الجامعة / قسم طب الاسنان

(73) اسم صاحب البراءة : الـــذوات اعـــلاه

(74) اسم الـــوكيل:

(54) تسمية الأختراع:
انتاج كريات ميكروية من بوليمرات طبيعية بطريقة (ATPS)للتطبيقات الطبية .

منحت هذه البراءة استنـــادا لأحكام المـادة (21) من قانون براءة الأختراع والنماذج الصناعية والمعلومات غير المفصح عنها والدوائر المتكاملة والاصناف النباتية رقم (65) لسنة 1970 المعدل وعلى مسؤولية المخترع.

C.O.S.Q.C
IRAQ

REDMI NOTE 8
AI QUAD CAMERA

7-Volunteer campaigns and exhibitions






SONYA
18" INCH
WALL FAN
Polymer Structure


Sustainable Development in Polymer Engineering
التنمية المستدامة في هندسة البوليمر
The Use of Natural Polymers
استخدام البوليمرات الطبيعية


مريم عقيل صافي
استخدام بوليمر طبيعي
كمادة (المشط)

Alumni enhancement to serve and develop the society

Creativity ,skills & innovations

Prof. Dr. Hamzah Al–Mamoori

University of Babylon - Iraq

❖ Goals and mechanism

The goal of the presentation :

A. is how to overcoming the problem and how the shift alumni to serve and

B. How to increase their reputation in order to increase quality standards of universities according to QS. . develop the society

How to enhance alumni ?

- searching for graduates skills , because skills are very important to enhance alumni to serve society according to the new world view .

- -many graduates have innovations & inventions in their last stage of B.Sc. in their learning program and need support to be actual as concrete project.

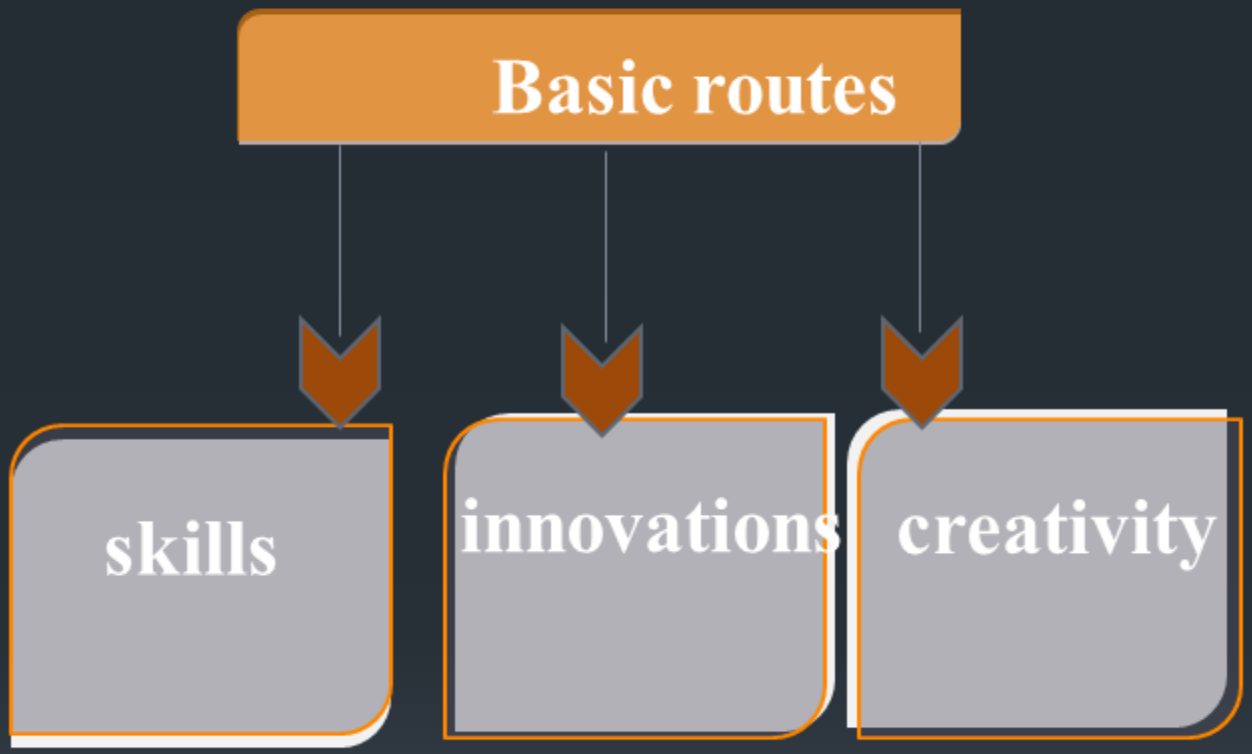
❖ mechanism

- **Our endeavor concentrates about how to attra graduates and stern the process to develop & s their society by :**
- **Looking for and flourishing their skills**
- **Looking for their innovations to project for the and according to that graduate will be finder o work chances and looking for workers in spite looking for work .**

How to enhance alumni ?

According to 10 years of international conferences and workshops quality assurance Participation in Cairo , Jordon , Beirut , Tunis , Muscat …..
And the cues of skills impact and the issue of innovations . Our project concentrates on alumni and how to shift the concepts for looking for workers in spite of the tradition view of looking for work .

How to enhance alumni ?













How to enhance alumni ?









How to enhance alumni ?









INSTYTUT MECHATRONIKI,
NANOTECHNOLOGII
I TECHNIKI PRÓŻNIOWEJ

POLITECHNIKA KOSZALIŃSKA

Koszalin 10th December 2010

Dr. Eng. Bogdan Warcholinski
Koszalin University of Technology
Institute of Mechatronics,
Nanotechnology and Vacuum Technique

I met with Dr. Nizar Jawad Hadi when he was visiting, in November and December of 2010, the Institute of Mechatronics, Nanotechnology and Vacuum Technique of Koszalin University of Technology. During this period we spend a lot of time together. He visited my laboratory and has possibility to see, during the work, micro-channel flow in boiling and condensation processes and design the course of flow processes. The next, very important experience is connected with participation in all operations before and during PVD deposition of TiN thin (about 2 μm thick) hard films. Deposited samples were then evaluated by testing:

- Hardness using a nanointender (Fischerscope® HM2000),
- Adhesion using scratch tester (Revetest® CSEM),
- Thickness - ball-cratering method (Calotest),
- Surface morphology – scanning electron microscope JEOL JSM 5500LV and Hommel Werke T8000 profilometer.
- Distribution of microdroplets (below 1 μm) was performed using NICON Eclipse MA200 optical microscope.

During his visit in Koszalin University of Technology, he took active participation in some of the lectures and meetings with the students. He presented structure of University of Babylon in Iraq, research program and achieved results. He participated in technical visits in industrial companies:

- KOSPEL – Water Heaters & Solar Collectors,
- TEPRO SA – High Vacuum Technology Plant.

In my impression Dr. Nizar Jawad Hadi is a hard working, kind and sincere person, and has proved his great potential for his research work. Dr. Nizar Jawad Hadi has had eager desire for knowledge and has dedicated all his efforts to research and teaching activities and has done very well.

Dr. Eng. Bogdan Warcholinski

UL. RACŁAWICKA 15-17 75-620 KOSZALIN TEL: 094 34 78 345 FAX 094 34 78 489

www.imnitp.tu.koszalin.pl imnitp@tu.koszalin.pl

INSTITUTE of MECHATRONICS,
NANOTECHNOLOGY
and VACUUM TECHNIQUE

KOSZALIN UNIVERSITY of TECHNOLOGY

CERTIFICATE

We certify that **Dr. Nizar Jawad Hadi** had a workshop programme in the Institute of Mechatronics, Nanotechnology and Vacuum Technique and Department of Mechanical Engineering of the Koszalin University of Technology for the period from 19/11/2010 to 12/12/2010 in the areas of materials and mechanical engineering consisting in visiting laboratories and factories, training in the techniques of materials investigation and others, seminars, lectures.

The workshop includes the following sections:

- Nanotechnology laboratories – PVD methods of deposition of thin hard films of nanometric dimensions (with the layer thickness of tens nanometers), special measurement methods of the so formed coatings – mechanical and tribological properties,
- Equipment and technology devices related to the nanotechnology,
- Division of Food Engineering and Plastics (experimental and theoretical tests of non-Newtonian flow, DSC and MIF equipments),

Division of Heat and Refrigeration Engineering (experimental tests for micro - channel flow in boiling and condensation processes).

The following factories related to scientific activities and applications mentioned above were:

- TEPRO SA – High Vacuum Technology Plant,
- POMORZANKA – Factory of Food Industry,
- KOSPEL – Water Heaters & Solar Collectors.

Dr. Hadi also took place in seminar about structure and organization of Higher School work, visited the students club within the adopting the 1st year students into the academic community, library, and visited the student classes during the learning process.

DYREKTOR

Koszalin December 12, 2010

United States Department of State
Bureau of Educational and Cultural Affairs

This is to certify that

Dr. Nizar Hadi

participated in the
International Visitor Leadership Program

on

Promoting University Linkages and Exchange Opportunities

August 19 - September 06, 2013

Alma R. Candelaria
Director
Office of International Visitors

dream plan achieve JMU

This is to certify that

Nizar Jawad Hadi

has successfully attended the following course 'Built Environment Research Methodology and Practical Applications' at

Liverpool John Moores University

17th – 22nd October 2011

Professor Rafid Alkhaddar
Project Co-ordinator

SCIENTIFIC SERVICES
MOHAMED EL SAADY

INSTRON
The difference is measurable
North Africa
Exclusive, Authorized Services & Calibration Center

CERTIFICATE

This is to certify that:

Dr. Nizar Jawad Hadi

Head of Polymers and Petrochemicals Industries Department
College of Materials Engineering – University of Babylon – Iraq.

Has successfully completed the technical training
On Determining Viscosity by capillary rheometer, capillary dies According to ISO 11443, ASTM D3835
Which has been held on 19-24th March 2018
At our premises in Egypt

On Behalf of Scientific Services
(Instron North Africa Service Center – Egypt).

ALTAKNYIA INSTITUTION

Altaknyia INSTITUTION
DEVELOPMENT AND CONSULTANCY

CERTIFICATE OF TRAINING

This is to certify that ,

NIZAR JAWAD HADI

Has successfully completed the training course

Internal Audit For ISO 17025:2017

And has completed all necessary requirements, held by the Altaknyia Institution

Date of participation

From 23 to 28 June 2019

With all honors, rights and privileges appertaining under The rules and regulations of the Altaknyia Institution

instructor

Talib Hani AL Kafaje

Approved

Soliman

General Manager

Grade: Excellent

Certificate No.:TRN/IRAQ/IA20-01

Altaknyia institution
www.altaknyia.com & info@altaknyia.com

How to enhance alumni ?


AROQA

شهادة حضور

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

أ . د. حمزة المعموري

قد حضر المؤتمر السنوي الخامس للمنظمة حول

"تحويل التعليم في الوطن العربي من التعليم إلى التعليم لغرض الابتكار"


AROQA

شهادة حضور

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

أ . د. حمزة المعموري

قد شارك في ورشة عمل حول

التعرف على معايير اعتماد ABET : خطوات عملية لتنفيذ عمليات التحسين المستمر


AROQA

شهادة حضور

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

أ . د. حمزة المعموري

قد حضر المؤتمر السنوي الخامس للمنظمة حول

"تحويل التعليم في الوطن العربي من التعليم إلى التعليم لغرض الابتكار"


AROQA

شهادة حضور

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

د. حمزة سلمان هاشم المعموري

قد شارك في

ورشة العمل الأولى " عمليات وإجراءات الاعتماد لدى مجلس الاعتماد لهندسة والتكنولوجيا ABET"


AROQA

ACQUIN

Appreciation Certificate

The Accreditation, Certification and Quality assurance Institute (ACQUIN)-Germany certifies that

Mr. Hamzah Salamah Al-Mamoori

has participated in the workshop entitled

"Quality enhancement through internal and external quality assurance"

During 12 December, 2013
Tunis, Tunisia

Dr. Talal Abo-Ghazaleh
AROQA Chairman

Ms. Marion Moser
Vice Managing Director /ACQUIN


AROQA

شهادة حضور

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

الأستاذ/ حمزة المعموري

قد شارك في المؤتمر السنوي الخامس للمنظمة العربية لضمان الجودة في التعليم

حول نظم الجودة وتطبيقها باستخدام أساليب تكنولوجية مبتكرة لضمان الجودة في التعليم

يوم ١٣ ديسمبر ٢٠١٣ والذي عقد في فندق المرادي قمرت - تونس

د. طلال أبو غزاله

رئيس المنظمة العربية لضمان الجودة في التعليم

How to enhance alumni ?


AROQA

شهادة مشاركة

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

أ. د. حمزة المعموري

قد شارك ببحث عنوانه

"Architectural Design Creativity between Thinking Skills and Computer Techniques: As Important Issue of Education Output"

في المؤتمر السنوي التاسع للمنظمة حول

"ضمان الجودة والإعتماد: تحديات وآفاق"

AROQA


The Ninth International Arab Conference on Quality Assurance in Higher Education

IACQA

شهادة حضور مؤتمر

منحت هذه الشهادة ل

أ.د. حمزة سلمان المعموري

لحضور فعاليات المؤتمر العربي الدولي التاسع لضمان جودة التعليم العالي والذي عقد في رحاب الجامعة اللبنانية الدولية - البقاع - لبنان خلال الفترة الممتدة بين ٨ و ١١ نيسان ٢٠١٩


The Ninth International Arab Conference on Quality Assurance in Higher Education

IACQA

شهادة حضور مؤتمر

منحت هذه الشهادة ل

أ.د. حمزة سلمان المعموري

لحضور ورشة عمل بعنوان

Implementation of ISO21001 in Higher Education Institutions- Lebanon

في المؤتمر العربي الدولي التاسع لضمان جودة التعليم العالي والذي عقد في رحاب الجامعة اللبنانية الدولية - البقاع - لبنان خلال الفترة الممتدة بين ٨ و ١١ نيسان ٢٠١٩


The Ninth International Arab Conference on Quality Assurance in Higher Education

IACQA

شهادة حضور مؤتمر

منحت هذه الشهادة ل

أ.د. حمزة سلمان المعموري

لحضور ورشة عمل بعنوان

Teaching and Learning in Higher Education: Evidence Strategies in Writing and Revisiting Learning Outcomes

في المؤتمر العربي الدولي التاسع لضمان جودة التعليم العالي والذي عقد في رحاب الجامعة اللبنانية الدولية - البقاع - لبنان خلال الفترة الممتدة بين ٨ و ١١ نيسان ٢٠١٩

الأمين العام للمؤتمر رئيس جامعة الزيتونة
أ.د. بسام الحلو

رئيس الجامعة اللبنانية الدولية
معالي الأستاذ عبدالرحيم مراد


AROQA

شهادة حضور

تشهد المنظمة العربية لضمان الجودة في التعليم

بأن

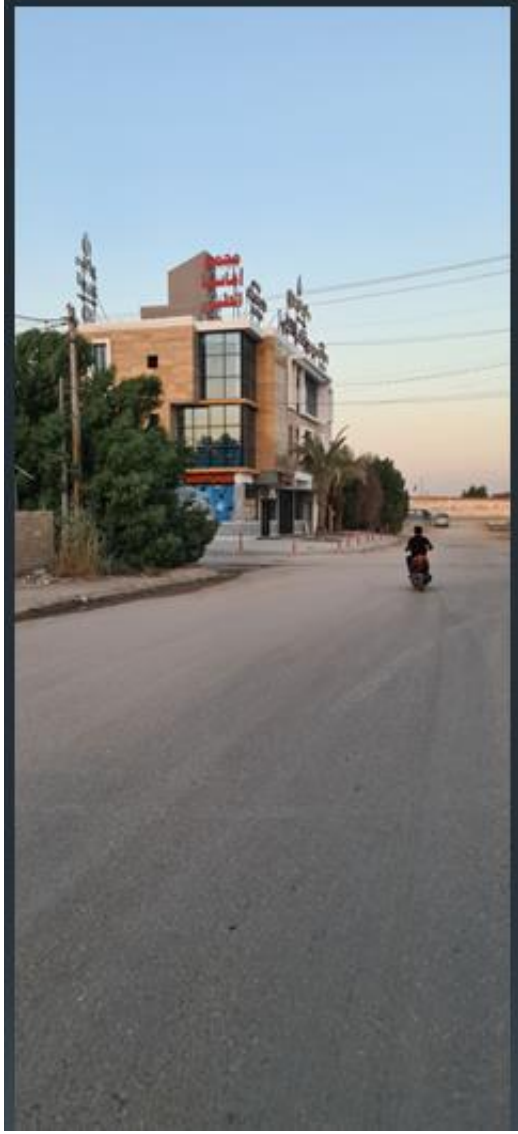
د. حمزة سلمان جاسم المعموري

قد شارك في المؤتمر السنوي الثامن للمنظمة حول

"تفعيل جودة التعليم على المستوى الإقليمي"

AROQA

Center Location





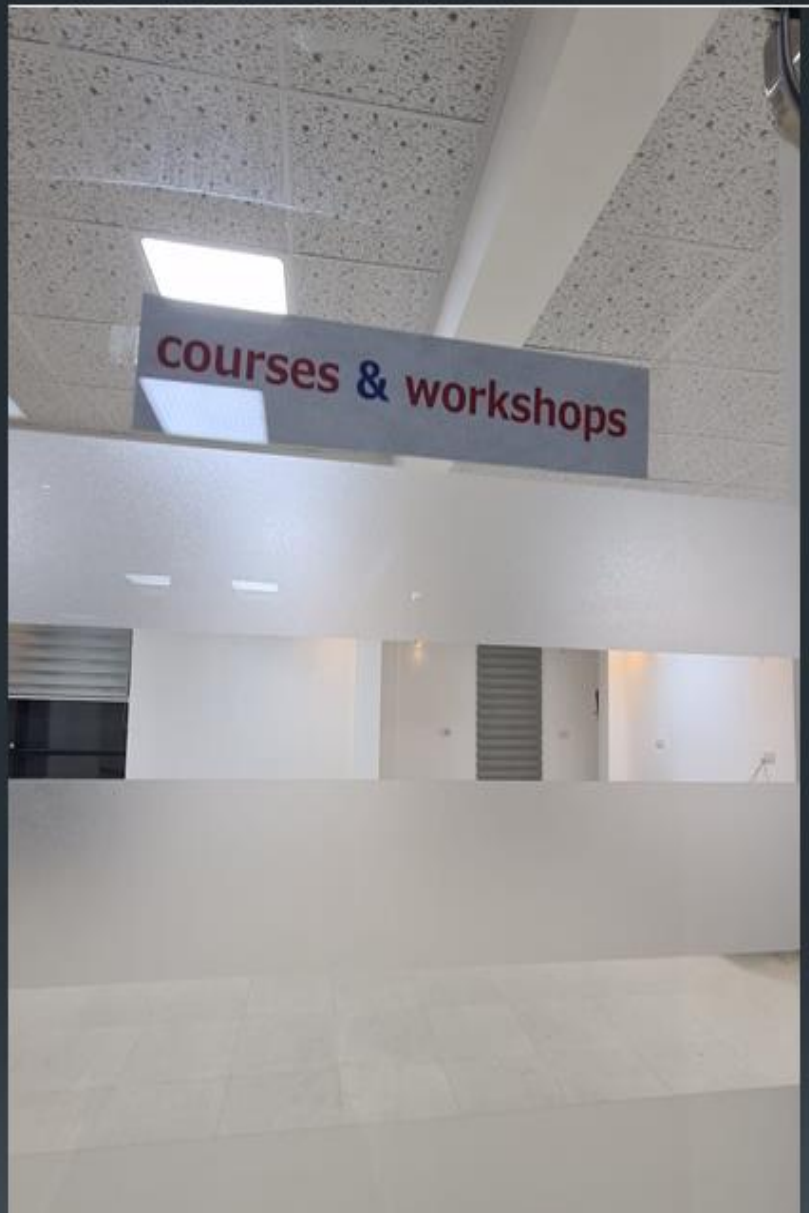


Inside center





Inside center





Inside the center





Conferences, Seminars, and Courses

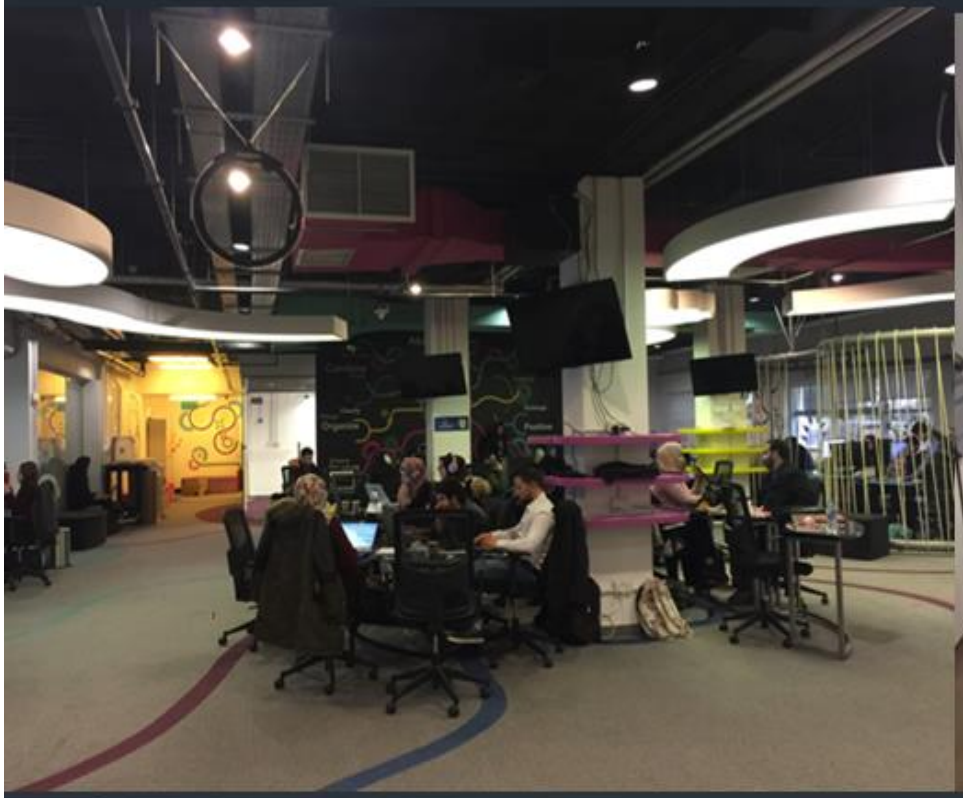




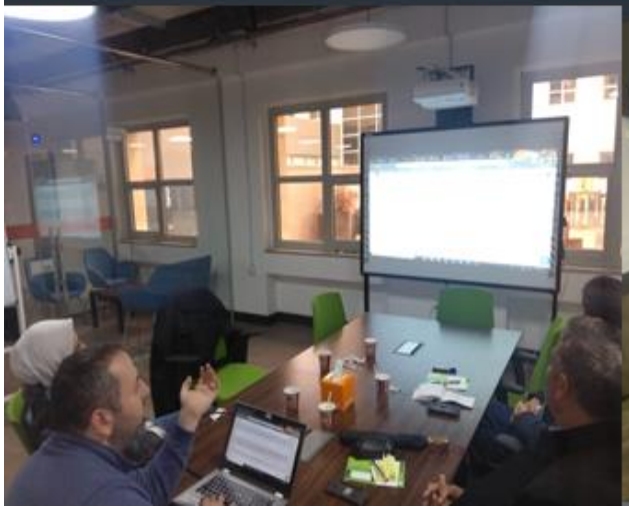
















❖Objectivities

The center can serve many universities in the middle of Iraq , specially the universities of the governorates :

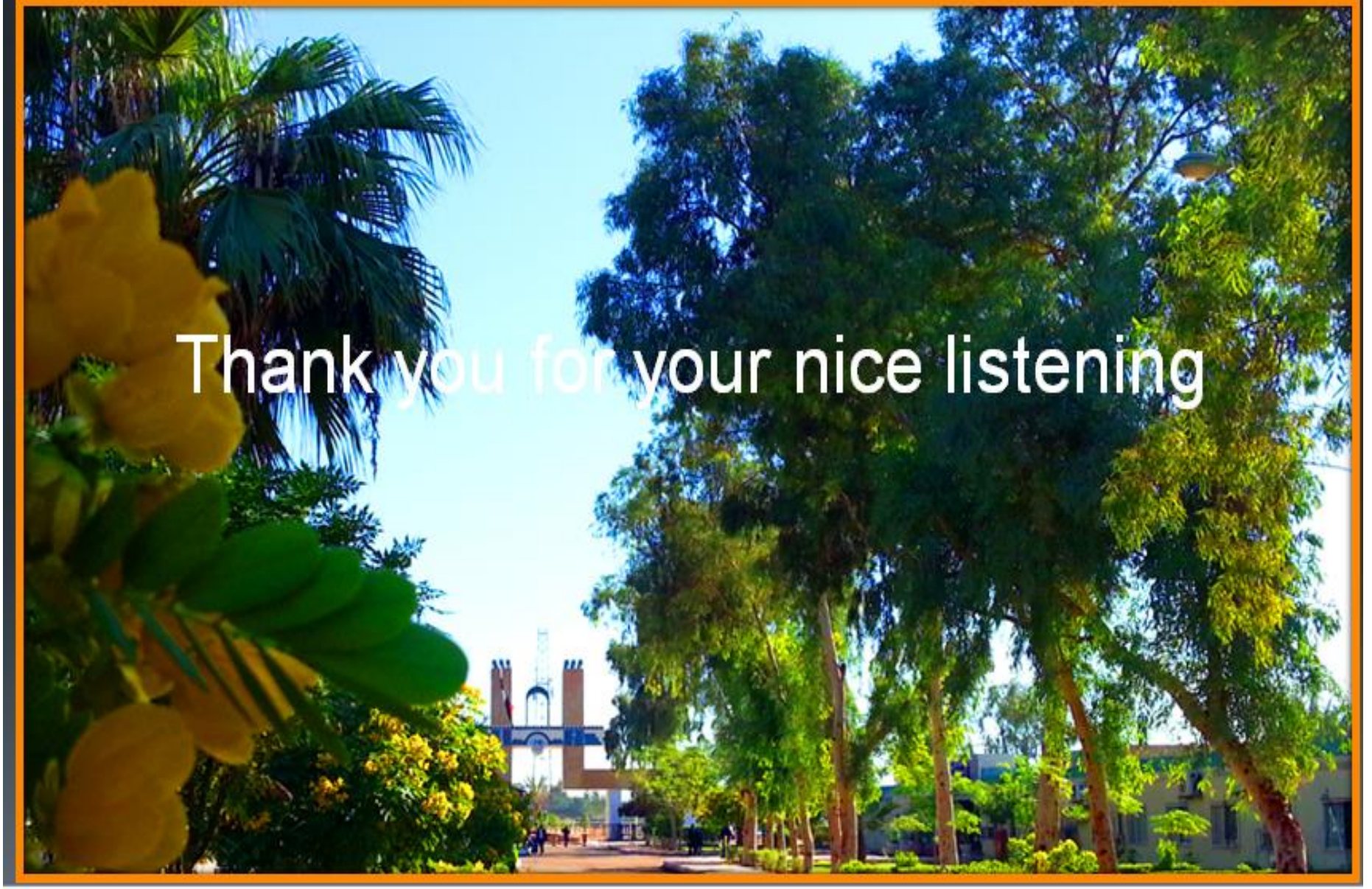
- Babel
- Karbala
- Najaf
- Al- Qadesiya , the center will serve 8 universities which engineering in their program.

❖Infections

The center may face many problems as below:

- Cant cover its various programs of courses , seminars , workshops .
- It may be of limited program and cant extend all engineering departments in its condition.
- All the activities depend on voluntaries .

Support surely will enhance the program rapidly with supervisor and cooperation of University of Babylon.


Thank you for your nice listening