AL-ANDALUS UNIVERSITY
BIOMEDICAL ENGINEERING CONFERENCE

AL Andalus University
SYRIA

برعاية وزير التعليم العالي والبحث العلمي
الأســـتاذ الدكـــتور مـــروان الحـــلبي
تتشرف جامعة الأندلس الخاصة للعلوم الطبية بدعوتكم لحضور

المؤتمر العلمي الأول
لكلية الهندسة الطبية

مستقبل الهندسة الطبية في سورية
(التحديات والحلول)

البرنامج العلمي للمؤتمر والأنشطة العلمية المرافقة

📅 الســـبت 2 أب 2025

🕐 من 9:00 حتى 15:00

📍 مكان انعقاد فعاليات المؤتمر والأنشطة المرافقة:

• فعاليات المؤتمر: مدرج الجامعة الرئيسي.

• ورشة عمل التطبيقات الرقمية في طب الاسنان وورشة عمل الذكاء الاصطناعي في طب الأسنان: مدرج الرازي وقاعة البحث العلمي ومخبر الهامات في كلية طب الأسنان.

Al Rawda Lab
DENTAL LAB

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| 1st Session | Session Chair: | Dr. Safaa Sarakbi |
| | Session Moderator : | Dr. Ghada Saad |

Time	Lecturer	Lecture title
9:00 – 9:15	Fala Alabdullah	Predicting gait cycle phases using machine learning techniques to control a prosthetic knee.
9:15 – 9:30	Dr.Khansaa Saad	Artificial Intelligence in Prosthetics: From Motor Control to Neural Interaction.
9:30 – 9:45	Dr.Rasha Massoud	Rehabilitation Engineering in the Artificial Intelligence Era.
9:45 – 10:00	Eng.Saleh Massoud	Multimodal fuzzy logic-based gait evaluation system for assessing children with cerebral palsy.
10:00 – 10:15	Dr.Mohamad Ayham Darwich	Biotribological Wear Prediction of Alumina–Polymer Hip Prostheses Using Finite Element Analysis.
10:15 – 10:30		Discussion

10:30 – 11:00	AUBMEc Conference Official opening

2nd Session	Panel Discussion: Syria's Biomedical Engineering Future

Time	Panelists
11:00 – 11:15	A Group Of Specialized Panelists in Medicine and Medical Engineering
11:15 – 11:30	Break

3rd Session **Session Chair:** Dr. Muhalab Daoud
Session Moderator : Dr. Hanan Mukhaiber

Time	Lecturer	Lecture title
11:30 – 11:45	Eng. Ahmad Ali Johara	Lower limb exoskeletons in neurological rehabilitation: concepts, design, and clinical applications
11:45 – 12:00	Eng. Souad Ramadan	Multivariate online Bayes estimators for connectivity neurofeedback based on real-time fMRI
12:00 – 12:15	Dr. Nibras Abo Alzahab	Editorial: Experimental Design Practices in Brain–Computer Interface Research
12:15 – 12:30	Eng. Hussein Dumirieh	Proton Range study in Pilot Proton Radiography and Proton Computed Tomography Experiment Using an Optical Imaging System
12:30 – 12:45	Dr. Bilal Alchalabi	Toward Clinical Prescription of Brain-Computer Interfaces: Are We Ready?
12:45 – 13:00		Discussion
13:00 – 13:30		Break

4th Session **Session Chair:** Dr. Mamdouh Mounif
Session Moderator : Dr. Rufaida Husain

Time	Lecturer	Lecture title
13:30 – 13:45	Dr. Raian Alzoaabi	Innovation & Medical Engineering: how To Turn Your Ideas Into A Patent on WIPO
13:45 – 14:00	Dr. Raneem Knaj	A Multimodal Intelligent System for Supporting Pregnant Women and Diagnosing Mood Disorders Using Artificial Intelligence Techniques
14:00 – 14:15	Dr. Ramia Aljubayli	Biomedical Engineering and Operations Management: Integrating Innovation and Efficiency to Improve Healthcare
14:15 – 14:30	Dr. Maan Ammar	A fully automatic system for liver cancer detection and diagnosis from abdominal CT images
14:30 – 14:45	Dr. Mohammad Al Lahham	Carbon Ion Therapy in nuclear medicine
14:45 – 15:00	Dr.-Ing. Ali Allousch	Distributed Optical Fiber Sensing in Healthcare: Applications of Rayleigh, Brillouin, and Raman Scattering Mechanisms
15:00 – 15:15		Discussion

Faculty of Dentistry workshops

2 / 8 / 2025
1st Session   **Session Chair:**   **Asst. Prof. Muhammad Salameh**

Time	Lecturer	Lecture title
9:00 - 9:15	Prof. Fawaz Baddour	Cone Beam Computed Tomography (CBCT): Acquisition and image Generation
9:15 - 9:30	Lect. George Wassousf	Digital Radiography in Dentistry
9:30 - 9:45	Lect. Mohammad Aboshanb	CBCT Applications in Endodontics
9:45 - 10:00	Lect. Mohamad Droubi	CBCT Applications in Oral and Maxillofacial Surgery
10:00 - 10:15	Lect. Mahmoud Rajab	CBCT Applications in Orthodontics
10:15 - 10:30		Discussion

2nd Session   **Session Chair:**   **Lect. Ghassan Al Mohammad**

Time	Lecturer	Lecture title
11:00-11:15	Lect. Mohammad Aboshanb	Artificial Intelligence and Endodontics: more than Second Opinion
11:15-11:30	Lect. Tayseer Salman	Using AI in academic writing and graduation projects
11:30-11:45	Moayed mahjob	Using artificial intelligence in dental clinic management, Thuraya program
11:45-12:00	Waled sobeh & Malek alhalabi	3D printing applications in dentistry
12:00-12:15	Lect. Ayssar Alqudsi	The integration of digital dentistry in the planning and execution of dental treatments: A scientific and clinical approach
12:15-12:30		Break

2 / 8 / 2025   **Workshop on Cone Beam Computed Tomography (CBCT) Applications in Dentistry**

Time	Lecturer	Lecture title
	Lect. Mohamad Droubi	CBCT Applications in Oral and Maxillofacial Surgery
12:30 – 14:45	Lect. Mohammad Aboshanb	CBCT Application in Endodontics
	Lect. Mahmoud Rajab	CBCT Application in Orthodontics

3 / 8 / 2025   **Workshop on Digital Smile Design and Intraoral Scanner**

Time	Lecturer	Lecture title
9:00-10:45	Lect. Ayssar Alqudsi	Two-dimensional digital smile design
10:45-11:00		Break
11:00 -15:00	Lect. Ayssar Alqudsi	Clinical and Technological Applications of Intraoral Scanner