

الأستاذ الدكتور / هشام محمد علي البطش

الأستاذ بكلية الهندسة جامعة بنها

مقدمة

بدأ الأستاذ الدكتور هشام البطش عمله كمهندس في الصناعة. ثم انتقل إلى الجامعة ليبدأ عمله الأكاديمي. ركزت الدراسات العلمية على أنظمة الطاقة وتحديدًا في السريان الإحادي الطور والثنائي الأطوار في التطبيقات الهندسية المختلفة. غطت هذه التطبيقات التدفق في التوربينات والمقد في الطاقة المرتبطة بها. بالإضافة إلى ذلك ، درس التدفق الأحادي والثنائي الأطوار في خطوط أنابيب مصفاة النفط وحساب التآكل في أنابيب البترول مع زملائه. علاوة على ذلك ، أجرى دراسات معملية وعددية للسريان في فواصل السيكلونية. علاوة على ذلك درس الأستاذ البطش الطاقة المتجددة في مجالين يغطيان



توليد الطاقة من توربينات الرياح وأنواع الوقود البديلة في أنظمة الطاقة. يشرف الأستاذ الدكتور البطش على العديد من رسائل الدكتوراه وماجستير في جامعة بنها وجامعة أسيوط وجامعة المنيا. كما أشرف على العديد من المشاريع الجامعية في جامعة بنها والجامعات الأخرى. عمل في مختلف المشاريع الممولة من الاتحاد الأوروبي وجهات محلية. ولديه أكثر من ثلاثين عامًا من الخبرة التدريسية لطلاب البكالوريوس والدراسات العليا في مختلف الجامعات المصرية والعربية. يتمتع الأستاذ الدكتور البطش بخبرة إدارية طويلة كرئيس قسم ووكيل كلية وقائم بأعمال عميد كلية و مشرف عام على قطاع خدمة المجتمع وتنمية البيئة بالجامعة.

المؤهلات العلمية

دكتوراه الفلسفة في الهندسة – كلية الهندسة الميكانيكية – جامعة فيينا التكنولوجية – النمسا – ٢٠٠١.
ماجستير هندسة القوى الميكانيكية – كلية الهندسة – جامعة الإسكندرية – ١٩٩٤.
بكالوريوس هندسة القوى الميكانيكية – كلية الهندسة – جامعة المنوفية – ١٩٨٨ جيد جدا مع مرتبة الشرف

المجالات البحثية الرئيسية

- ✓ زيادة الطاقة المستخرجة من الرياح باستخدام توربينات الرياح الحديثة
- ✓ خصائص الاحتراق لأنواع الوقود البديلة مع إضافة جزيئات النانو
- ✓ فحص التدفق الثانوي وتدفق التسرب من خلال مصفوفات التوربينات والضواغط
- ✓ انتقال الحرارة والتبريد الغشائي لريش التوربينات الغازية
- ✓ السريان ثنائي الأطوار للمياه مع البترول وتآكل خطوط أنابيب البترول.

- ✓ فحص أنظمة تبريد الألواح وأنظمة تكييف الهواء تحت الأرض
- ✓ تدفق أحادي وثنائي الطور في فواصل السيكلون

المناصب الإدارية

- ✓ المشرف على تخطيط البرامج وتنمية البيئة وشئون الوحدات ذات الطابع الخاص بقطاع شئون خدمة المجتمع وتنمية البيئة بجامعة بنها - أكتوبر ٢٠١٨ وحتى فبراير ٢٠٢٠.
- ✓ رئيس قسم الهندسة الميكانيكية - كلية الهندسة بنها - جامعة بنها - أغسطس ٢٠١٩ - أكتوبر ٢٠٢٠
- ✓ القائم بأعمال عميد كلية الهندسة بنها - جامعة بنها - فبراير ٢٠١٨ وحتى أغسطس ٢٠١٨
- ✓ وكيل كلية الهندسة بنها للدراسات العليا والبحوث - جامعة بنها - مارس ٢٠١٣ وحتى يوليو ٢٠١٩.
- ✓ قائم بأعمال رئيس قسم الهندسة الميكانيكية بكلية الهندسة بنها - جامعة بنها - مارس ٢٠١٢ - فبراير ٢٠١٣
- ✓ مدير وحدة الجودة والاعتماد - مارس ٢٠٠٨ وحتى مارس ٢٠١٢

الأبحاث المنشورة

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