

College of Engineering Academic Staff Profile



Full Name	Fairuz Bin Abdullah
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Contact No	03-8921 2376
Department	Electronics and Communication Engineering
Academic Qualifications	Masters in Electrical Engineering, UPM, 2004 B.Eng. (Hons.) Electrical / Electronics, UNITEN, 2001
Current Position	Lecturer
Working Experience	Research assistant (2001 -2003) Lecturer (2003-Now)
Courses Taught in Uniten	Microprocessor Systems Optoelectronics & Fiber Optic
Professional Bodies	IEEE Malaysia Section IEEE LEOS Malaysia IEEE GOLD Malaysia BEM Graduate Member

Research (any ongoing / completed research project)	No	Grant	Project Title	Role	Start and End Date	Amount
	1	Escience Fund	Fabry-Perot Interferometric Optical Pressure Sensor For Turbo-Machinery Application	Member	12/06-12/08	RM 383,000
	2	Escience Fund	A New Authentication Method for Voice over IP Session Initiation Protocol in Internet Protocol version 6	Member	10/07-03/09	RM119,000
	3	Escience Fund	Next Generation Quality of Service (QoS) Based Optical-IP Transceiver	Leader	10/07-09/09	RM 237,000
	4	Uniten Seed Funding	Preliminary study on IP- Optical Interface	Member	03/08-03/09	RM64,000
	5	Escience Fund	Internet Protocol to Optical Traffic Controller using Fuzzy Logic for Ethernet Passive Optical Network	Member	3/08-08/09	RM 493,800
	6	Flagship Internal Funding	Energy Extraction from Landfills in Malaysia	Member	Mac 08-Feb 09	RM80,000
Consultancy (any ongoing / completed project)						
Publications	<p><u>International Journals :</u></p> <ol style="list-style-type: none"> F. Abdullah, B. Bouzid, M.A. Mahdi, C.L. Cheah, M.Z. Jamaludin, M.K. Abdullah, "Characterization of a dual wavelength fibre laserbased on dumbbell configuration", Optics & Laser Techn. Lett., 36, 187-190 (2004). F. Abdullah, A.S.M. Noor, M.Z. Jamaludin, M.A. Mahdi, K. Dimyati, M.K. Abdullah, "Silmultaneous dual wavelength lasing of an erbiumdoped fibre laser over wide spectrum range by intracavity loss optimisation" Optic & Laser Tech. Lett., 37(8), 638-641 (2005). F. Abdullah, A.S.M. Noor, M.Z. Jamaludin, M.A. Mahdi, H.A. A. Rashid, M.K. Abdullah, "Intracavity Loss Control Effect on Tuning Range of Tunable Dual Erbium-Doped Fiber Laser", Laser Phys. Lett., 2(11), 535-537 (2005). A.A.A. Bakar, M.Z. Jamaludin, F. Abdullah, M.H. Yaacob, M.A. Mahdi, M.K. Abdullah, "A new technique of real-time monitoring of fiber optic cable network transmission", Optics & Laser Eng. Lett., 45, 126-130 (2007). 					

5. M. Zaini Jamaludin, M. Khazani Abdullah, Fairuz Abdullah, A. Fauzi Abas, M. Adzir Mahdi and Faidz Rahman, "A hybrid high-gain double-pass erbium-doped fiber amplifier with dispersion compensation feedback loop", *Optics & Laser Technology*, Vol. 40, Issue 2, March 2008, Pp. 270-272
6. **F. Abdullah**, M.A. Mahdi, B. Bouzid and M.K. Abdullah, "High power dual-wavelength loop-mirror cavity fibre laser," *Microwave & Opt. Tech. Lett.*, 39(4), 286-287 (2003).

International Conference Papers :

1. M.Z. Jamaludin, A.A.A. Bakar, **F. Abdullah**, F.A. Rahman, M.A. Mahdi, M.K. Abdullah, "Dual-pass EDFA with Built-in Variable Optical Bragg Grating". *IEEE ICON & MICC*, 2005, pp. 81-84.
2. M.Z. Jamaludin, M.K. Abdullah, F. Abdullah, A.F. Abas, F.A. Rahman, M.A. Mahdi, "Improving Optical Fiber Transmission Distance Using Chirped Bragg Grating Double-Pass Erbium-Doped Fiber Amplifier", *INTEC07*, March 2007, Jeddah.
3. M.Z. Jamaludin, F. Abdullah, A.F. Abas, F. A. Rahman, M.A. Mahdi, M.K. Abdullah, "Performance Enhancement of transmission system using Double-pass EDFA with Built-in Variable Optical Bragg Grating", *IEEE ICT&MICC 2007*, May 2007, Penang.
4. Mohamad K. Abdullah, A. Fauzi Abas, **Fairuz Abdullah**, Rosdisham Endut and Borhanuddin Mohd. Ali, Improving the Fibre Optics Data Transmission with DCM/ Diff. D Technique, *MICC, LISLO & ICSE 2001*
5. M. Khazani Abdullah, A. Fauzi Abas, **Fairuz B. Abdullah**, Rosdisham B. Endut, "Simplex-full duplex (SFD) converter to increase fiber utilization", *Proc. MICC, LISLO, ISCE 2001*, Kuala Lumpur, pp. 352-327, October 2001

National Conference Papers :

1. **F. Abdullah**, B. Bouzid, M.A. Mahdi, C.C. Lai, M.Z. Jamaludin, M.K. Abdullah, "A new erbium-doped fiber laser system producing two lasing output", *IPTA Conf.* 2003
2. **Fairuz Abdullah**, Ahmad Shukri Mohd Noor, Md. Zaini Jamaludin, Md. Adzir Mahdi, Mohd Khazani Abdullah, "A new freely tuned dualwavelength erbium-doped fibre laser using cavity loss optimization technique", *MU2SIC 2004*, Putrajaya, Malaysia, TS 1C-3 pp. 9-11.
3. M. Khazani Abdullah, A. Fauzi Abas, **Fairuz B. Abdullah**, Rosdisham B. Endut, Borhanudin Mohd Ali, "DCM/Diff.D, a simple technique to improve optical fiber communication system", *Proc. UPMICTMC 2001*, Universiti Putra Malaysia, pp. 30, November 2001.
4. Mohamad K. Abdullah, Ahmad F. Abas, **Fairuz B. Abdullah**, Rosdisham B. Endut, "STM-4 bi-directional transmission over single fiber using SFDC", *Proc. NSM 2001*, Genting Highland, pp. 234-237, November 2001

Awards

- ITEX 2003 Bronze Medal: IP Fiber Duplexer Module (Project Member)
- EINIC 2006 Consolation Prize: Wireless Sensor Network for Environment Monitoring (Project Member)