

Sir Syed University of Engineering & Technology, Karachi.

OFFICE OF THE CONTROLLER OF EXAMINATIONS

NOTIFICATION

No SSUET/EXAM/PhD-6/2021

Dated: March 25, 2021

It is notified for the information of all concerned that Mr. **Rehan Shams S/o Mr. Shams ul Islam Baig**, Ph.D. scholar of Electronic Engineering Department of Sir Syed University of Engineering & Technology, Karachi has completed all the requirements for the award of Ph.D. Degree in the discipline of Electronic Engineering as per detail given hereunder:

Ph.D. in Electronic Engineering			Cumulative Result			
Enrolment No.	Scholar's Name	Father's Name	Credit Hours			Cumulative Grade Point Average (CGPA)
			Course Work	Research Work	Total	
021/PhDEE/2015 Roll No. 2015/PhDEE-003	Mr. Engr. Rehan Shams	Mr. Shams ul Islam Baig	18	30	48	3.53

Research Topic: **"Joint Localization and Time Synchronization in Underwater Wireless Sensor Networks"**

Local Supervisor Name: **Prof. Dr. Muhammad Aamir, Karachi.**

Foreign / External Examiners:

a) Name: **Prof. Dr. Jaime Lloret**
Associate Prof. Communication
Dept.
Polytechnic University of Valencia,
Spain

b) Name: **Dr. Tahir Riaz,**
Ex. Associate Prof.
Dept. of Electronics
Systems, Network and
Security,
Aalborg University,
Denmark

c) Name: **Prof. Dr. Muhammad Zubair Ahmed**
Iqra University, Karachi.

Detail of Research Articles published on the basis of thesis research work:

1. Shams, R., Khan, F.H., Amir, M. et al. **Critical Analysis of Localization and Time Synchronization Algorithms in Underwater Wireless Sensor Networks: Issues and Challenges.** Wireless Personal Communications 116, 1231–1258 (2021).
2. Shams, Rehan; Otero, Pablo; Aamir, Muhammad; Hanif, Fozia. 2020. **"E2JSL: Energy Efficient Joint Time Synchronization and Localization Algorithm Using Ray Tracing Model"** Sensors 20, no. 24: 7222.
3. R. Shams, P. Otero, M. Aamir and F. H. Khan, **"Joint Algorithm for Multi-Hop Localization and Time Synchronization in Underwater Sensors Networks Using Single Anchor,"** in IEEE Access, vol. 9, pp. 27945-27958, 2021.

Note: This result is declaration as notice only. Errors and omissions, if any, are subject to subsequent rectification.

Controller of Examinations

c.c: for information to

1. PS to Chancellor
2. PS to Vice Chancellor
3. Registrar
4. Director QEC
5. Director Postgraduate Studies