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## Curriculum Vitae

### Personal Data

Name Yasser Rifat Tawfic Mohamed  
Date of Birth 12<sup>th</sup> December, 1970  
Place of Birth Minia, Egypt  
Nationality Egyptian  
Affiliation Professor of Reinforced Concrete Structures  
Vice Dean for Community Service and Environmental Development Faculty of Engineering Minia University.  
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### Education

▪ **Doctor of Philosophy of Engineering:**

March 2006, (Reinforced Concrete Structures), Department of Civil Engineering, Faculty of Engineering, Gunma University, Gunma, Japan.

**Title: REPAIR AND STRENGTHENING OF RC SLABS WITH CFRP GRIDS.**

▪ **Master of Engineering:**

January 1998, Civil Engineering Department, Minia University, Minia, Egypt.

**Title: CHARACTERISTICS of RC BEAMS REINFORCED WITH EPOXY COATED STIRRUPS UNDER SHEAR FAILURE.**

▪ **Bachelor of Engineering:**

June 1993, Civil Engineering Department, Minia University, Minia, Egypt.

### Employment Record

- **Teacher assistant:** from 1994 until 1998 working in civil Engineering,
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Faculty of Engineering, Minia University, Egypt.

- **Assistant lecturer:** after Master degree from 1998 until 2002 working in civil Engineering, Faculty of Engineering, Minia University, Egypt.
- **Egyptian Government scholarship** to study my PhD in Japan, Gunma University, Gunma Ken, Japan, 2002-2006.
- **Assistant Professor:** Civil Engineering, Faculty of Engineering, Minia University, Egypt, 2006-2014.
- **Associate Professor:** Civil Engineering, Faculty of Engineering, Minia University, Egypt, 2014-2023.
- **Professor of reinforced concrete structures:** Civil Engineering, Faculty of Engineering, Minia University, Egypt, 2023 until now.

### Field of Interest

- Civil Engineering, Reinforced Concrete Structures.
- Repair and Strengthening of RC structures.
- Self-compacting Concrete.
- High-strength/high performance concrete.

### Work experiences and professional Memberships:

- Vice Dean for Environmental Affairs and Community Service Faculty of Engineering Minia University.
  - Vice president of the Engineering Consulting Center – Minia University.
  - Head of the Civil Engineering Department from 2021 - 2024.
  - Member of Egyptian Engineering Syndicate since 1993.
  - Supervising the General Administration of Engineering Affairs - Minia University, by a decision of the president of the university (2007-2010).
  - Chairman of the Committee "Fire Requirements and Codes to Secure
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**Facilities from Fire Dangers" (2007 – 2010).**

- **Member of the Higher Committee for Engineering Technical Support in Minya Governorate, by decision of the Governor, Major General 2015.**

### **Professional Applied Activity**

- **Design of the Radio and Television Buildings in Aswan Governorate.**
- **Design of the Television Buildings (Channel 7) in Minia Governorate.**
- **Design the Towers of the Railway Authority in Minia City - Minia Governorate.**
- **Designing and supervising the implementation of the Nile-View Compound, New Minia City.**
- **Designing buildings of Porto El Minia Compound, New Minia City.**
- **Designing and supervising the implementation of several residential buildings and towers in Minia Governorate, Cairo Governorate, 6 October City and New Minia City.**
- **Technical reports and restoration of some buildings at Minia University, such as (Faculty of Dar El-Uloom - Housing buildings for students - student housing buildings outside the campus - Faculty of Engineering - Water station buildings inside the university).**
- **Technical reports and restoration of some buildings in Minya Governorate, such as (Bani Mazar hospital buildings - high water tanks in Mattai and Bani Mazar city - developing a reservoir connected to the outlet of the water station in Bani Mazar – Technical report for repair and strengthening the transformer station buildings, Assiut Governorate.**
- **Al-Nasr Association towers in Minia.**
- **Design of the annex building of the kidney hospital, Minia University.**

### **Language ability:**

- **Arabic: Native Language**
  - **English: Fluent**
  - **Japanese: Good skill**
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## **Supervisor**

**Supervisor of Master/Doctor graduate students under the following research themes:**

- **PhD Students 7**
- **Master Students 8**

## **Courses**

### **Undergraduate students**

- **Reinforced concrete course (3) (fourth-year civil students, Faculty of Engineering).**
- **Elective reinforced concrete course (fourth-year civil students, Faculty of Engineering).**
- **Project of Reinforced concrete structures (fourth-year civil students, Faculty of Engineering).**
- **Reinforced concrete course (2) (third-year civil students, Faculty of Engineering).**
- **Reinforced concrete course (1) (second-year civil students, Faculty of Engineering).**
- **Reinforced concrete course (third-year architecture department, Faculty of Engineering).**
- **Reinforced concrete course (second-year architecture department, Faculty of Fine Arts).**

### **Postgraduate students**

- **Advanced reinforced concrete course (1).**
- **Advanced reinforced concrete course (2).**
- **Prestressed concrete course.**

## **Publications**

- 1- **Yasser Rifat, Ahmed El-Badawi, Rabiee Aly and Abd-El-Rahman Megahed, "Statical Behaviour of R.C. Beams reinforced with epoxy coated stirrups and mainly failed in shear." Helwan conference, 1997.**
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- 2- **Yasser Rifat, Ahmed El-Badawi, Rabiee Aly and Abd-El-Rahman Megahed, "Characteristics of R.C. Beams reinforced with epoxy coated stirrups under shear failure." MSc. Minia University, 1998.**
  - 3- **Yasser Rifat, Tsuji, Y., and Sugiyama, T. "Flexural Strengthening of Reinforced Concrete Slabs Using CFRP Grid." Journal of Cement Science and Concrete Technology, No. 58, 2004, pp. 460-467.**
  - 4- **Yasser Rifat, Tsuji, Y., and Sugiyama, T. "Flexural Performance of RC Slabs Strengthened with Spliced CFRP Grids." Journal of Cement Science and Concrete Technology, No. 59, 2005, pp. 490-497.**
  - 5- **Yasser Rifat, Yukikazu Tsuji, and Takafumi Sugiyama, "Repair and Strengthening of RC Slabs with CFRP Grids" Phd thesis, Gunma University, Japan, 2006.**
  - 6- **Yasser Rifat Tawfic and Yukikazu Tsuji, "Flexural Performance of preloaded RC elements strengthened with CFRP Grids and polymer cement mortar", 13th International Conference on Structural and Geotechnical Engineering-Ain Shams University, 2008.**
  - 7- **Ahmed El-Badawi Rabiee Aly and Yasser Rifat, "Prosperities of Fresh and Hardened Self Compacting Concrete (SCC) Produced by Using Locally Available Materials", Journal of Civil Engineering and Architectural, Volume 4, Number 10, October 2010.**
  - 8- **L. M. Hafez, Y. R. Tawfic, A. B. Sdeek and M. Abdelazeem "Theoretical and Experimental Study for the Behavior of Short Composite Columns Tested under Static Centric or Eccentric Loads" Journal of Engineering Sciences, Assuit University, Vol. 40, No. 3, May 2012, pp. 639-655.**
  - 9- **L. M. Hafez, Y. R. Tawfic, A. B. Sdeek and M. Abdelazeem "Finite Element Analysis for the Behavior of Short Concrete Filled Steel Box (CFSB) Columns Subjected to Static Load" Minia Journal of Engineering and Technology (MJET), Faculty of Engineering, Minia University Vol. 31, No. 2, July 2012, pp. 45-55.**
  - 10- **Yasser R. Tawfic "Fresh and Hardened Properties of Highly Workable Concrete (HWC)" 3rd International Conference on Sustainable Construction Materials & Technologies (SCMT3), Kyoto, Japan, August 2013.**
  - 11- **Yasser R. Tawfic "Self-Compacting Fiber Reinforced Concrete" Minia Journal of Engineering and Technology (MJET), Faculty of Engineering, Minia University Vol. 32, No. 2, July 2013.**
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- 12- L. M. Hafez, Alaa A. AlKhadary Y. R. Tawfic, Mohamed Atalla "Repair and Strengthening of RC Beams in Shear Zone" *Minia Journal of Engineering and Technology (MJET)*, Faculty of Engineering, Minia University Vol. 32, No. 2, July 2013.
- 13- Yasser R. Tawfic and Wael Abdelmoez "The Influence of "Water Magnetization" on Fresh and Hardened Concrete Properties" *International Journal of Civil Engineering & Technology (IJCIET)*, Volume 4, Issue 6, November - December (2013).
- 14- Yasser R. Tawfic "Flexural Behavior of Strengthened RC Beams Using Different Materials and Techniques" *International Journal of Civil Engineering & Technology (IJCIET)*, Volume 4, Issue 6, November - December (2013).
- 15- laila Mahmoud Abdel- Hafaz, Rabiee Ali Sadeek, Yasser RifatTawfic, Naglaa Glal- Eldin fahmy "Theoretical study of improving the ductility of high strength reinforced concrete beams under flexure; Faculty of Engineering" *Minia University*, Vol 33, July 2014.
- 16- laila Mahmoud Abdel- Hafaz, Rabiee Ali Sadeek, Yasser RifatTawfic, Naglaa Glal- Eldin fahmy "Design of high strength fiber reinforced concrete sections under flexure, Faculty of Engineering, Minia University, Vol 33, July 2014.
- 17- Yasser R. Tawfic, Mohamed A. Eid " Application of Micro-Tunneling Technique to Rectify Tilted Structures Constructed on Cohesive Soil" *World Academy of Science, Engineering and Technology International Journal of Structural and Construction Engineering*, Vol:9, No:11, 2015, pp. 1450-1457.
- 18- Ahmad Saudi Abdul-Zaher, Laila Mahmoud Abdul-Hafez, Yasser Rifat Tawfic, Osama Hammed "SHEAR BEHAVIOR OF FIBER REINFORCED CONCRETE BEAMS" *Journal of Engineering Sciences Assiut University Faculty of Engineering* Vol. 44 No. 2 March 2016 PP. 132 – 144.
- 19- D. A. Makhloof, A. Y. Abouelezz, Yasser R. Tawfic, L.M. Abdel-Hafez "SHEAR CAPACITY OF REINFORCED CONCRETE BEAMS WITH STIRRUPS" *Minia Journal of Engineering & Technology (MJET)*, Vol. 37, No. 1. January 2018.
- 20- Yasser R. Tawfic, Ahmad Saudi A. Sayed, Mohamed A. Eid, L.M. Abd-El Hafez "Experimental Investigation to Evaluate the Behavior of Concrete-Filled Steel Tubular Columns under the Effect of the Distribution of the Total Steel Area between the Internal Concrete Core and the External Steel
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Tube" International Journal of Engineering Research in Africa, Vol. 54, 2021, pp 86-99.

- 21- A. S. Abdel-zaher<sup>1</sup> , L. M. Abdel-Hafez<sup>2</sup> , Y. R. Tawfic<sup>3</sup> and M. E. Abdelfattah "THEORETICAL INVESTIGATION OF CONCRETE FILLED STEEL HOLLOW SECTION COLUMNS" Journal of Advanced Engineering Trends, Vol. 39, No. 1. January 2020, pp. 63-76.
- 22- Yasser R. Tawfic, Abdel-Nasser A. Soltan, Amr B. Saddek "CHARACTERISTICS OF STEEL PLATE-REINFORCED CONCRETE COMPOSITE BEAMS SUBJECTED TO FLEXURAL STRESSES" Journal of Advanced Engineering Trends, Vol. 41, No.2. July 2022, pp. 41-53.
- 23- Mohamed A. Eid, Yasser R. Tawfic "Iterative search for optimized configurations of micro-tunneling as a compensation method for rectifying tilted structures based on numerical simulations" Journal of Case Studies in Construction Materials, Vol. 17, 2022.
- 24- Mahmoud Elsayed, Israa Abdel-Hady, L.M. Abdel-Hafez, Yasser R. Tawfic " Strengthening of slab-column connections using ultra high-performance fiber concrete" Journal of Case Studies in Construction Materials, Vol. 17, 2022.
- 25- Yasser R. Tawfic, Mohamed Y. Farid, Kamal A. Assaf, L. M. Abd-elhafez "SHEAR STRENGTH OF LOW VOLUME STEEL FIBER CONCRETE UNDER STATIC OR REPEATED LOADS" Journal of Advanced Engineering Trends, Vol.42, No.2, July 2023.
- 26- Yasser R. Tawfic, Ahmad Saudi A. Sayed, L. M. Abdel-Hafez, Mohamed A. Eid "Numerical Analysis to Evaluate the Behavior of the Concrete-Filled Hollow Steel Tubular Columns" Journal of Advanced Engineering Trends, Vol 43, No. 1, January 2024.
- 27- L. M. Abd el-Hafez, Fatma R. Mahmoud, *Yasser R. Tawfic* "Behavior of large-scale columns strengthened with basalt fiber-reinforced polymers sheets or bars and hybrid FRPs Case Studies in Construction Materials" December 2023.

### Attending Conferences

- Minia International Conference on Environment and Engineering, Hurgada, Egypt (MICEE 2024).
  - Minia International Conference on Environment and Engineering, Hurgada, Egypt (MICEE 2022).
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- **International Conference on Civil and Environmental Engineering (ICCEE 2018). Hurgada, Egypt, 24-26 November 2018**
  - **13<sup>th</sup> International Conference on Structural and Geotechnical Engineering, Ein Shams University", December 2009 (ICSGE-13).**
  - **2<sup>nd</sup> Minia International Conference, "Environment and community development in third world countries", March 2009.**
  - **3<sup>rd</sup> International Conference on "Sustainable Construction Materials & Technology", Kyoto, Japan, August 2013.**
  - **ICSECM 2015: "17th International Conference on Structural Engineering", Construction and Management, Paris, France, November 19-20, 2015.**

### **Member of the Organizing committee for conferences**

- **1st Minia Conference “Investment in Technology” Faculty of Engineering, Minia University, May 2007.**
- **International Conference on Civil and Environmental Engineering (ICCEE 2018), 24-26 November, Hurgada, Egypt.**
- **Minia International Conference on Environment and Engineering (MICEE 2022), 14-16 July, Hurgada, Egypt.**
- **Minia International Conference on Environment and Engineering (MICEE 2024), Hurgada, Egypt.**

### **Reviewer for journals and conferences:**

- **ACI Structural and Materials Journals (Q1).**
  - **STRUCTURES Journal (Q1).**
  - **Journal of Advanced Engineering Trends, Faculty of Engineering, Minia University.**
  - **Basic and Applied Sciences (BJBAS) journal of Beni-Suef University.**
  - **Third International Conference on Sustainable Construction Materials & Technologies (SCMT3), Kyoto, Japa**
  - **International Conference on Civil and Environmental Engineering (ICCEE 2018), 24-26 November, Hurgada, Egypt.**
  - **Minia International Conference on Environment and Engineering (MICEE**
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**2022), 14-16 July, Hurgada, Egypt.**

- **Minia International Conference on Environment and Engineering (MICEE 2024), Hurgada, Egypt.**

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