

Curriculum Vitae

Personal Information

Last Name	:	Papadopoulos	
First Name	:	Ilias	
Position	:	Affiliate Teaching Staff (Academic Fellowship)	
Academic Field	:	Reinforced Concrete, Road Technical Works, Design and Construction of Structures	
Work Address	:	International Hellenic University, School of Engineering, Department of Environmental Engineering, P.O. Box 141, 574 00, Sindos, Thessaloniki, Greece	
Research Interests	:	Reinforced and Prestressed Concrete, Bridge Design, Earthquake Resistant Structures, Seismic Isolation, Pathology and Maintenance of Structures, Road Technical Works, Steel Structures, Drafting Design and Construction of Structures	
Contact Details:	:	tel.: 6974 019655	e-mail: iliaspap77@yahoo.gr

Education

1994-1999	Diploma in Civil Engineering , Aristotle University of Thessaloniki (AUTH), Faculty of Engineering, Department of Civil Engineering, Division of Structural Engineering, Laboratory of Reinforced Concrete and Masonry Structures, Grade «Very Good»
1999-2000	Master of Science – MSc, Aristotle University of Thessaloniki (AUTH), Faculty of Engineering, Department of Civil Engineering, Postgraduate Expertise Diploma in “Earthquake Engineering and Aseismic Design of Structures”, Grade «Excellent», First in rank, taking the oath
2011-2015	Doctor of Philosophy – PhD, Aristotle University of Thessaloniki (AUTH), Faculty of Engineering, Department of Civil Engineering, Postgraduate Studies leading to a PhD Diploma at the Laboratory of Reinforced Concrete and Masonry Structures. Title of Thesis: “Analytical and experimental investigation of an innovative friction-based isolator for the reduction of earthquake induced actions and displacements of bridges”, Grade «Excellent with Distinction», First in rank, taking the oath

Professional Experience

1999	Member of the Technical Chamber of Greece (TEE). Acquisition of the license to practice the profession of Civil Engineer
2001	Self-employed freelancer offering engineering services as main activity
2001-	Structural Engineer, Collaborator, Consultant and Company Partner since 2008 of METE SYSM S.A. Architects and Consulting Engineers, Thessaloniki

(www.metesysm.gr). Participated in the elaboration of numerous projects with more than twenty years of professional experience in the design and study of building and infrastructure works at any stage (concept, preliminary or detailed) as follows:

- Design Team member and manager
- Structural calculations, plan drafting, quantities estimation and Bill of Quantities compilation
- Final Design Calculations and Plan checking
- Structural design of bridges and infrastructure works:
Balanced Cantilever Bridges, Valleybridges, Highway Elevated Bridges (Flyover), Bridges with prefabricated beams, “Floating” bridges (resting on bearings), Cast in situ bridges, Railway bridges, Bridges utilizing seismic isolation systems, Steel bridges carrying conveyor belts, Crane bridges, Water bridges, Footbridges, Underpass technical structures, Overpass bridges etc.
- Structural design of buildings:
Hospital unit buildings, School buildings, Public sector buildings, Underground parking stations, Building complexes, Industrial buildings, Churches, Stadium upgrading, Stadium shelters, etc.
- Structural design of special works:
Sewage and drainage works, Gas pipeline suspension systems, Settling tanks, Storage tanks, Digesters, Protective buildings for archeological sites, etc.
- Structural design of interventions in existing buildings:
Damages due to fire, Preserved buildings, etc.
- Consulting services:
Bridge bearing capacity estimation, Technical consulting services, Supervision of construction, Structural calculations and plan checking, etc.
- Transportation studies:
Highway and roadway design, Traffic signing and road safety studies, Junction design, etc.

2004-	Chartered Engineer, registered (class C/C) in the Official List of the Hellenic Ministry of Public Works in the field of Structural Design (cat. 08) and registered (class A/C) in the field of Transportation Projects (cat. 10) (Reg. No 16809, valid until 22-02-2026)
2008-	Member of the list of Expert Engineers of TEE (TKM-Central Macedonia Department)
2009-2013	Affiliate Laboratory Staff, Department of Infrastructure Engineering, Alexander Technological Educational Institute of Thessaloniki (A.T.E.I.TH.)
2014-	Contractor designer of public projects, as individual: <ul style="list-style-type: none"> • Structural design of bridges and infrastructure works: Wood and Steel Footbridges • Structural design of interventions in existing buildings: Assessment of bearing capacity of a preserved school building

	<ul style="list-style-type: none"> Transportation studies: Road upgrading, , Traffic signing and road safety studies
2016-2019	Affiliate Scientific and Laboratory Staff, Department of Civil Engineering TE, Alexander Technological Educational Institute of Thessaloniki (A.T.E.I.TH.)
2019-	Affiliate Teaching Staff, Department of Environmental Engineering, International Hellenic University (Academic Fellowship or PD407/80)

Teaching Experience

A. Undergraduate

Alexander Technological Educational Institute of Thessaloniki, Department of Civil Engineering TE (and former Infrastructure Engineering)	
2009-2011	Affiliate Laboratory Staff, Course: «Entrepreneurship»
2009-2010	Affiliate Laboratory Staff, Course: «Reinforced Concrete»
2009-2012	Affiliate Laboratory Staff, Course: «Bridge Engineering»
2012-2013	Affiliate Laboratory Staff, Course: «Road Technical Works»
2016-2019	Affiliate Teaching Staff (Independent), Course: «Steel Structures»
2017-2019	Affiliate Laboratory Staff, Course: «Reinforced Concrete I»
2016-2019	Affiliate Teaching Staff (Independent), Course: «Reinforced Concrete II»
2016-2017	Affiliate Teaching Staff (Independent), Course: «Reinforced Concrete III»
2017-2018	Affiliate Teaching Staff (Independent), Course: «Computer aided drawing»
International Hellenic University, School of Engineering, Department of Environmental Engineering	
2019-2023	Affiliate Teaching Staff (Independent), Course: «Reinforced Concrete II»
2019-2021	Affiliate Teaching Staff (Independent), Course: «Computer aided drawing»
2020-2022	Affiliate Teaching Staff (Independent), Course: « Road Technical Works »
2021-2023	Affiliate Teaching Staff (Independent), Course: «Reinforced Concrete I»
2022-2023	Affiliate Teaching Staff (Independent), Course: «Steel Structures»

B. Supervision of Undergraduate Theses

2016-	Supervision of thirteen (13) undergraduate theses which are completed at the Department of Civil Engineering TE of the Alexander Technological Educational Institute of Thessaloniki
-------	--

C. Postgraduate

- 2008-2016 Aristotle University of Thessaloniki, Department of Civil Engineering, MSc in «Aseismic Design of Technical Works»
- Course A.Σ.T.E. 9: Earthquake Resistant Design of RC Bridges
- Lecturer, advisor and responsible for completion and correction of the obligatory semester course study in the context of the collaboration with the supervising Professor of my doctoral thesis, Mr. Ioannis Tegos
-

D. Supervision of Postgraduate Theses

- 2008-2016 Aristotle University of Thessaloniki, Department of Civil Engineering
- Assistant co-supervisor of four (4) postgraduate theses for the MSc Program of «Aseismic Design of Technical Works» in the context of the collaboration with the supervising Professor of my doctoral thesis, Mr. Ioannis Tegos
-

E. Member of Three-Member Committee of PhD Students

Departmental Administrative Work

Committees

Research Programs

A. Principal Investigator

I. International

II. National

B. Research Team Member

I. International

II. National

1. 2001 An upgraded approach to seismic hazard scenarios with applications to different European cities – RISK-UE. Research team member
 2. 2001 Athens 7-9-99 earthquake: Assessment of vulnerability in the earthquake-prone area. Research team member
 3. 2020-2021 Postdoctoral research in the A.U.TH., Department of Civil Engineering funded with a scholarship from IKY (State Scholarship Foundation) in the context of the action «Supporting Postdoctoral Researchers – 2nd Stage». Research Title: *“Analytical and experimental investigation of reinforced concrete industrial floors and roadways without joints”*
-

Publications

Publications in Scientific Journals (peer reviewed)

1. 2013 **I.C. Papadopoulos** & I.A. Tegos, An Innovative Friction-based Seismic Isolator Utilizing Bridge Approach Embankments, *Indian Geotechnical Journal*, 2013, DOI 10.1007/s40098-013-0090-2.
-

Publications in Scientific Conference Proceedings (peer reviewed)

A. International

1. 2000 Kappos A.J. & **Papadopoulos E.**, Seismic vulnerability assessment of the Potenza building stock using the Greek methodology, *International Workshop on Seismic Risk and Earthquake Scenarios of Potenza*, (Potenza, Italy, November 2000), pp. 57-70.
 2. 2012 I. A. Tegos, K. T. Psarras, D. Kalkinis, **I. C. Papadopoulos** & N. Legbelos, Experimental Evaluation of Transverse Reinforcement Configurations of Earthquake – resistant R/C Shear Walls, *15th World Conference on Earthquake Engineering*, (Lisbon, Portugal, September 2012), Paper No 2065.
 3. 2012 I.A. Tegos & **I.C. Papadopoulos**, An Innovative Friction-based Seismic Restrainer Utilizing Bridge Approach Embankments, *15th World Conference on Earthquake Engineering*, (Lisbon, Portugal, September 2012), Paper No 1860.
 4. 2014 A. J. Kappos, **I. Papadopoulos** & A. Tokatlidis, “Design of a Seismically Isolated Railway Viaduct over Axios River in Northern Greece”, in J. Pombo, (editor), *“Proceedings of the Second International Conference in Railway Technology: Research, Development and Maintenance”*, Civil – Camp Press, Stirlingshire, UK, Paper 80, 2014.
 5. 2017 Ioannis Papaefthymiou, **Ilias Papadopoulos**, Dimitrios Pesios, Ioannis Tegos, Analytical and experimental research on the possibilities of attaining a monolithic connection with earthquake resistance, aesthetic and economic advantages for the prefabricated bridges, *COMPDYN 2017*, Rhodes Island, Greece, Paper 17946, 15-17 June 2017.
-

B. National

1. 1999 Τσώνος Α. & **Παπαδόπουλος Η.**, Σεισμική συμπεριφορά δοκιμίου εξωτερικού κόμβου σχεδιασμένου σύμφωνα με τον Ευρωκώδικα 8, *13^ο Ελληνικό Συνέδριο Σκυροδέματος*, Ρέθυμνο, Κρήτη, ΤΕΕ, Οκτώβριος 1999.
 2. 2012 **Παπαδόπουλος Η.**, Σιδηροδρομική Κοιλαδογέφυρα Αξιού, *Η Αντισεισμική Μηχανική μέσα από την Επιστημονική Ματιά Νέων Ερευνητών και Μηχανικών*, Ελληνικό Τμήμα Αντισεισμικής Μηχανικής, Θεσσαλονίκη, Δεκέμβριος 2012.
-

3. 2016 Τέγος Ι., Ψάρρας Κ. & **Παπαδόπουλος Η.**, Πειραματική και αναλυτική έρευνα επί των βιομηχανικών δαπέδων και οδοστρωμάτων οπλισμένου σκυροδέματος χωρίς αρμούς, *17^ο Πανελλήνιο Συνέδριο Σκυροδέματος*, Θεσσαλονίκη, ΕΠΕΣ-ΤΕΕ/ΤΚΜ, α/α Εργασίας 072, Νοέμβριος 2016.
4. 2016 Παντίδης Π., **Παπαδόπουλος Η.**, Τσιτώτας Μ. & Τέγος Ι., Συμβατική και εναλλακτική αντιμετώπιση καμπύλης γέφυρας μεγάλου μήκους με καινοτόμες επιλογές υπέρ της αισθητικής, της οικονομίας και της κατασκευασιμότητας, *17^ο Πανελλήνιο Συνέδριο Σκυροδέματος*, Θεσσαλονίκη, ΕΠΕΣ-ΤΕΕ/ΤΚΜ, α/α Εργασίας 083, Νοέμβριος 2016.
5. 2016 **Παπαδόπουλος Η.**, Τέγος Ι. & Ψάρρας Κ., Προταθέντα μέτρα αποκατάστασης του φέροντος οργανισμού πυροπλήκτου κτηριακού συγκροτήματος, *17^ο Πανελλήνιο Συνέδριο Σκυροδέματος*, Θεσσαλονίκη, ΕΠΕΣ-ΤΕΕ/ΤΚΜ, α/α Εργασίας 086, Νοέμβριος 2016.
6. 2016 **Παπαδόπουλος Η.**, Παπανικολάου Β. & Τέγος Ι., Ανάσχεση των σεισμικών δράσεων και μετακινήσεων γεφυρών μέσω ανάπτυξης δράσεων τριβής στην περιοχή των ακροβάθρων, *17^ο Πανελλήνιο Συνέδριο Σκυροδέματος*, Θεσσαλονίκη, ΕΠΕΣ-ΤΕΕ/ΤΚΜ, α/α Εργασίας 087, Νοέμβριος 2016.
7. 2018 Τέγος Ν., Μαργογιαννάκη Ο. & **Παπαδόπουλος Η.**, Η ταχύτητα κατασκευής ως ζητούμενο κατά την επιλογή της κατασκευαστικής μεθόδου μιας γέφυρας, *18^ο Πανελλήνιο Συνέδριο Σκυροδέματος*, Αθήνα, ΤΕΕ, α/α Εργασίας 105, Μάρτιος 2018.
8. 2019 **Παπαδόπουλος Η.** & Τέγος Ν., Περιορισμός του χρόνου κατασκευής και του κόστους αποκατάστασης των εκ του σεισμού βλαβών σε γέφυρες με τη χρήση προκατασκευασμένων σπονδυλωτών μεσοβάθρων, *4^ο Πανελλήνιο Συνέδριο Αντισεισμικής Μηχανικής Τεχνικής Σεισμολογίας*, Αθήνα, ETAM/ΤΕΕ, α/α Εργασίας 18684, Σεπτέμβριος 2019.

C. Other publications

Collective Volumes

Course Books/Scientific Books

Research Program Reports

Acknowledgement of Scientific Expertise

A.Awards - Distinctions – Scholarships- Patents

2021-2021 IKY (State Scholarship Foundation), Postdoctoral research scholarship

B. Citations/ h-index

Γ. Reviewer in Scientific Journals

Δ. Member of Conference Scientific and Organizing Committees

1999-	Member of Technical Chamber of Greece (T.E.E.)
2003-	Member of Hellenic Association of Public Projects Consultants of Central Macedonia
2008-	Member of the list of Expert Engineers of TEE/TKM

Other Activities - Interests

A. Special Knowledge - Skills

- Use of DOS operating system, Windows, Office applications, Internet (ECDL Certificate)
 - Use of computer programming languages Matlab, Visual Basic etc. (postgraduate course "Computer Science", Postgraduate course "Applied Computer Science")
 - Use of drafting-drawing software Autocad (drawing of structural and architectural projects – ECDL Certificate) and Revit (BIM)
 - Use of finite element structural analysis software for static and dynamic analyses and dimensioning of structures from concrete, steel etc. (Sofistik, SAP, Next, Instant etc.)
 - Scientific research via internet (A.U.TH. Central Library Seminars, Postgraduate course "Introduction to Research Methodology")
 - Computerization knowledge (IT company manager)
 - Thorough knowledge and application of relevant design Codes, Eurocodes, Preparation of contractual documents, Health and Safety planning and provisions, Invoice and Tender documents preparation etc.
 - English Language: Good knowledge (B2 Level)
 - German Language: Very Good knowledge (C1 Level)
 - Second lieutenant Engineering officer in reserve, member of the Association of Reserve Officers of the Prefecture of Thessaloniki from 2007. Training at the Army School of Engineering (Loutraki) with the specialty of Pioneer Engineer in bridge building, disasters, military projects etc.
 - Training in "Special Education and Training" program of the Center for Training and Lifelong Learning of the University of the Aegean (2022)
 - Volunteer blood donor and platelet donor
-

B. Appendix – Most notable bridge design projects

- Road bridge T9a with a total length of 2.000m for the construction of an Elevated Expressway (Flyover)), in the context of the upgrading project of the existing Eastern Inner Ring Road of Thessaloniki. Along the 2.000m of the bridge, a total of nine (9) independent substructures are formed, with lengths between 170,0m and 235,0m. The superstructures are continuous, with four to five spans of about 45,0 m and expansion joints at the ends of the subsections. At the predesign stage the bridge is to be constructed using the launching formwork system ("movable scaffolding")
-

-
- Two Road bridges G1 on the Chortiatis-Raidestos Section of Thessaloniki External Ring Road, with a total length of 360,0m each ($97,5+165,0+97,5=360,0\text{m}$), constructed using the balanced cantilever method
 - Two Road bridges G1 on the Efkarpia-Pefka Section of Thessaloniki External Ring Road, with a total length of 305,0m each ($82,5+140+82,5=305\text{m}$), constructed using the balanced cantilever method
 - Road bridge G4 on the Gournes-Hersonissos section of the northern Crete road axis (BOAK), with a total length of 440,0m ($58,75+3\times 107,5+58,75=440\text{m}$), constructed using the balanced cantilever method (recently awarded a Silver metal)
 - Seismically Isolated Railway viaduct T12 over Axios river on the new Thessaloniki–Eidomeni railway line with a total length of 800,0m ($40+16\times 45+40=800\text{m}$), constructed using the launching formwork system ("movable scaffolding")
 - Road viaducts T4 on the N. Kostarazi-Argos Orestiko section of Vertical Road Axis Siatista-Krystalopigi of Egnatia Odos Motorway, 10-span twin road viaducts with a total length of 310m each, and a bridge superstructure consisting of precast prestressed beams and a cast-in-situ continuous deck
-

Date

Sindos, January 2023
