



SOUTH EASTERN EUROPEAN MATHEMATICAL OLYMPIAD FOR UNIVERSITY STUDENTS

PROGRAM

SEEMOUS 2020

MARCH 3-8, THESSALONIKI, GREECE





ID CARD DESCRIPTION

All the SEEMOUS participants, Leaders, Deputy Leaders, Observers, Contestants, Organizers and Staff must wear their ID card all times. If you lose your ID card, please contact the SEEMOUS office immediately for replacement. The colors used for ID cards are as follows:

Category	Color
Leaders	black and white
Deputy Leaders	
Observers	
Organizers	
Staff	
Contestants	blue and white





WELCOME MESSAGE

Dear Participants, Dear Guests,

It is our pleasure to welcome you to the 14th edition of the South Eastern European Mathematical Olympiad for University Students - SEEMOUS 2020.

We would like to express our gratitude to the Executive Committee of the Mathematical Society of South Eastern Europe (MASSEE) for trusting us to organize here in Thessaloniki the 14th edition of SEEMOUS. We are glad and honored to host such an important event in Greece, here in Thessaloniki.

Just like in the previous editions, SEEMOUS 2020 creates the premises for students around the world to encounter their forces in the common passion, Mathematics. This Olympiad is a great opportunity for establishing future links of scientific collaboration and friendship between our universities and our countries and we hope that in this edition of the olympiad these expectations will be reached.

During these days, you shall also have the chance to experience glimpses of our culture and our traditional hospitality.

Welcoming you all, we wish you a nice and pleasant stay here in Thessaloniki!

Good luck and success to all participants!

The Organizing Committee of SEEMOUS 2020





about the

Aristotle University of Thessaloniki

Aristotle University of Thessaloniki (AUTh) was founded in 1925 as the second Greek University and today it is the biggest in the country. It comprises 11 Faculties organized into 41 Schools. Operates 41 bachelor degree and 68 master degree programmes in individual Faculties and Schools, as well as interdisciplinary, inter-university and international. Furthermore, it has 23 collaborations with foreign universities for co-supervised PhD, for Greek and foreign doctoral candidates. 43.452 undergraduate and 8.000 postgraduate and PhD students (4.121 are foreign) are registered at AUTh. The Teaching and Research Staff are more than 2.000 and the total support staff around 1000 people. AUTh participates actively in International Meetings (IAU, EUA, COIMBRA, EMUNI, AUFFrancophonie, European University of Beijing, TIME etc)., as well as in 35 International Associations, Organizations and Networks and 5 International Student Associations. In the framework of European Educational Programmes, The South Eastern European Mathematical Olympiad for University Students with International Participation (SEEMOUS) was launched in 2007 by the Mathematical Society of South Eastern Europe.

The School of Mathematics has been opened since 1928; together with the Schools of Physics, Chemistry, Biology, Geology and Informatics, it is one of the six divisions of the Faculty of Sciences.





about the

South Eastern European Mathematical Olympiad for University Students

The South Eastern European Mathematical Olympiad for University Students with International Participation (SEEMOUS) was launched in 2007 by the Mathematical Society of South Eastern Europe.

The Mathematical Society of South Eastern Europe (MASSEE) is established on 1st March 2003. The main scope of the Association is to join the forces of all the communities that are involved and further collaborate for adding value to the common ground for actions in the area.

The previous editions of SEEMOUS took place as follows:

- 2007 Agros, Cyprus
- 2008 Athens, Greece
- 2009 Argos, Cyprus
- 2010 Plovdiv, Bulgaria
- 2011 Bucharest, Romania
- 2012 Blagoevgrad, Bulgaria
- 2013 Athens, Greece
- 2014 Iaşi, Romania
- 2015 Ohrid, FYROM
- 2016 Protaras, Cyprus
- 2017 Ohrid, FYROM
- 2018 Iași, Romania
- 2019 Devin, Bulgaria





COMMITTEES

MASSEE Committee

• President: Doru Ștefănescu, Romania

• Vice President: Peter Boyvalenkov, Bulgaria

• Vice President: Andreas Philippou, Cyprus

• Treasurer: Anargyros Fellouris, Greece

• Member: Andrian Naco, Albania

• Member: Zoran Kadelburg, Serbia

• General Secretary: Manolis Kritikos, Greece

MASSEE Olympiad Committee

- Gregoris Makrides (Chair), Cyprus
- Radu Gologan, Romania
- Sava Grozdev, Bulgaria

Organizing Committee

- Nicholas P. Karampetakis Chairman
- Ioannis Kafetzis
- Panagiotis Tzounakis Web Page
- Maria Tsitsilianou Secretary





Problem Selection Committee

- Asen Bozhilov, Sofia University "Saint Kliment Ohridski"
- Dimitrios Betsakos, Aristotle University of Thessaloniki
- Georgios Gavrilopoulos, National and Kapodistrian University of Athens
- Nikolaos Roidos, University of Patras, Greece
- Aleksa Malcheski, Republic of North Macedonia, Saints Cyril and Methodius University of Skopje
- Cornel Baetica, University of Bucharest
- Corina Forascu, Alexandru Ioan Cuza University of Iasi
- Alexandru Negrescu, University Politehnica of Bucharest
- Marcel Roman, "Gheorghe Asachi" Technical University of Iasi
- Mircea Dan Rus, Technical University of Cluj-Napoca
- Tiberiu Trif, Babes-Bolyai University Cluj-Napoca
- Ivan Gadjev, Sofia University "Saint Kliment Ohridski"
- Gabriel Mincu, University of Bucharest
- Vasile Pop, Technical University of Cluj-Napoca
- Shahlo Hasanova, International University for the Humanities and Development
- Radu Strugariu, "Gheorghe Asachi" Techincal University of Iasi
- Perman Iljanov, International University for the Humanities and Development
- Chrysostomos Psaroudakis, Aristotle University of Thessaloniki
- Romanos Diogenis Malikiosis Chairman of the Jury, Faculty of Sciences, School of Mathematics, Aristotle University of Thessaloniki





TEAMS LIST

- Lucian Blaga University of Sibiu, Romania
- "Gheorghe Asachi" Technical University of Iasi
- Babes-Bolyai University Cluj-Napoca
- Technical University of Cluj-Napoca, Romania
- University "Alexandru Ioan Cuza" Iasi, Romania
- University of Bucharest, Romania
- University Politehnica of Bucharest, Romania
- Saints Cyril and Methodius University of Skopje, Republic of North Macedonia
- Sofia University "Saint Kliment Ohridski", Bulgaria
- Aristotle University of Thessaloniki, Greece
- National and Kapodistrian University of Athens, Greece
- National Technical University of Athens, Greece
- Technical University of Crete, Greece
- University of Patras, Greece





LIST OF PARTICIPANTS

TEAM LEADERS

First Name	Family Name	Country	University
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Dimitrios	Betsakos	Greece	Aristotle University of Thessaloniki
Georgios	Gavrilopoulos		National and Kapodistrian University of Athens
Nikolaos	Roidos	Greece	University of Patras, Greece
Aleksa	Malcheski	-	Saints Cyril and Methodius University of
			Skopje
Cornel	Baetica	Romania	University of Bucharest
Corina	Forascu	Romania	Alexandru Ioan Cuza University of Iasi
Alexandru	Negrescu	Romania	University Politehnica of Bucharest
Marcel	Roman	Romania	"Gheorghe Asachi" Technical University of Iasi
Mircea Dan	Rus	Romania	Technical University of Cluj-Napoca
Tiberiu	Trif	Romania	Babes-Bolyai University Cluj-Napoca

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Vasile	Pop	Romania	Technical University of Cluj-Napoca
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OBSERVERS

Name Family Name Country	University
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Marian	Panțiruc	Romania	"Gheorghe Asachi" Techincal University of Iasi

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Konstantinos	Kitsios	
Vasileios	Makridis	
Kosmas-Louis	Meta	
Artemis Chrysanthi	Savva	
Chara	Soumelidou	
Dimitrios	Tsintsilidas	





CONTESTANTS

Forename	Surname	Country	University
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Plamen	Ivanov	Bulgaria	Sofia University
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Viktor	Terziev	Bulgaria	Sofia University
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Aristotle University of Thessaloniki

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Marius - Horațiu Totoian Romania Technical University of Cluj-Napoca Andrei-Robert Bâra Romania University of Bucharest Andrei-Vlad Cațaron Romania University of Bucharest Dan-Ștefan Dumitrescu Romania University of Bucharest Andrei Alexandru Jelea Romania University Politehnica of Bucharest Radu Mustățea Romania University Politehnica of Bucharest Ştefan Cristian Popa Romania University Politehnica of Bucharest	Raluca	Bozdog	Romania	Technical University of Cluj-Napoca
Andrei-Robert Bâra Romania University of Bucharest Andrei-Vlad Caţaron Romania University of Bucharest Dan-Ştefan Dumitrescu Romania University of Bucharest Andrei Alexandru Jelea Romania University Politehnica of Bucharest Radu Mustăţea Romania University Politehnica of Bucharest Ştefan Cristian Popa Romania University Politehnica of Bucharest	Andrei	Tămâian	Romania	Technical University of Cluj-Napoca
Andrei-Vlad Caţaron Romania University of Bucharest Dan-Ştefan Dumitrescu Romania University of Bucharest Andrei Alexandru Jelea Romania University Politehnica of Bucharest Radu Mustăţea Romania University Politehnica of Bucharest Ştefan Cristian Popa Romania University Politehnica of Bucharest	Marius - Horațiu	Totoian	Romania	Technical University of Cluj-Napoca
Dan-ȘtefanDumitrescuRomaniaUniversity of BucharestAndrei AlexandruJeleaRomaniaUniversity Politehnica of BucharestRaduMustățeaRomaniaUniversity Politehnica of BucharestȘtefan CristianPopaRomaniaUniversity Politehnica of Bucharest	Andrei-Robert	Bâra	Romania	University of Bucharest
Andrei Alexandru Jelea Romania University Politehnica of Bucharest Radu Mustățea Romania University Politehnica of Bucharest Ştefan Cristian Popa Romania University Politehnica of Bucharest	Andrei-Vlad	Cațaron	Romania	University of Bucharest
Radu Mustățea Romania University Politehnica of Bucharest Ștefan Cristian Popa Romania University Politehnica of Bucharest	Dan-Ştefan	Dumitrescu	Romania	University of Bucharest
Ştefan Cristian Popa Romania University Politehnica of Bucharest	Andrei Alexandru	Jelea	Romania	University Politehnica of Bucharest
· · · · · · · · · · · · · · · · · · ·	Radu	Mustățea	Romania	University Politehnica of Bucharest
Andrei Săceleanu Romania University Politehnica of Bucharest	Ștefan Cristian	Popa	Romania	University Politehnica of Bucharest
	Andrei	Săceleanu	Romania	University Politehnica of Bucharest

PROGRAMME

DAY	STUDENTS DEPUTY LEADERS			DEPUTY LEADERS	TEAM LEADERS		
	TIME	ACTIVITY	TIME	ACTIVITY	TIME	ACTIVITY	
TUESDAY, March 3	12:00-20:00	Arrival and registration (ABC Hotel)	12:00-20:00	Arrival and registration (Philippion Hotel)	12:00-20:00	Arrival and registration (Philippion Hotel)	
	20:00	Dinner (KAMARES)	20:00	Dinner (Philippion Hotel)	20:00	Dinner (Philippion Hotel)	
WEDNESDAY, March 4	8:00	Breakfast (ABC Hotel)	8:00	Breakfast (Philippion Hotel)	8:00	Breakfast (Philippion Hotel)	
,	9:00-11:30	Free time	9:00-11:00	Free time	9:00-11:00	Jury meeting	
	11:30-12:30	Opening Ceremony (Faculty of Philosophy)	11:00	Transfer to Aristotle University	11:00	Transfer to Aristotle University	
	13:00 -15:00	Lunch	11:30-12:30	Opening Ceremony (Faculty of Philosophy)	11:30-12:30	Opening Ceremony (Faculty of Philosophy)	
	15:00-20:00	Free time	13:00 -15:00	Lunch (KAMARES)	13:00 -15:00	Lunch (KAMARES)	
	20:00	Dinner (KAMARES)	15:00	Transfer to Philippion Hotel	15:00	Transfer to Philippion Hotel	
			15:00-20:00	Free time	15:30-20:00	Jury meeting	
	0.00	D. 16 (ADCH (1)	20:00	Dinner (Philippion Hotel)	20:00	Dinner (Philippion Hotel)	
THURSDAY, March 5	8:00	Breakfast (ABC Hotel)	8:00	Breakfast (Philippion Hotel)	8:00	Breakfast (Philippion Hotel)	
,	9:30-14:30	COMPETITION (Faculty of Sciences, A.U.Th.)	9:00	Transfer to Aristotle University	9:00	Transfer to Aristotle University	
	15:00-16:30	Lunch (KAMARES)	9:30-10:30	Answering questions	9:30-10:30	Answering questions	
	16:30 – 20:00	Free time	10:30-14:30	Grading teams and grading schemes	10:30-14:30	Grading teams and grading schemes	
	20:00	Dinner (KAMARES)	14:30 – 15:30	Lunch (KAMARES)	14:30 – 15:30	Lunch (KAMARES)	
			16:00	Transfer to Philippion Hotel	16:00	Transfer to Philippion Hotel	
			16:00-20:00	Jury meeting : Grading	16:00-20:00	Jury meeting : Grading	
			20:00-21:00	Dinner (Philippion Hotel)	20:00-21:00	Dinner (Philippion Hotel)	
			21:00-24:00	Grading	21:00-24:00	Grading	
FRIDAY, March 6	8:00	Breakfast (ABC Hotel)	7:30	Breakfast (Philippion Hotel)	7:30	Breakfast (Philippion Hotel)	
	9:00-18:00	Excursion	8:30	Transfer to ABC Hotel	8:30	Transfer to ABC Hotel	
	20:00	Dinner (KAMARES)	9:00-18:00	Excursion	9:00-18:00	Excursion	
	0.00	D 16 (ADGH)	20:00	Dinner (KAMARES)	20:00	Dinner (KAMARES)	
SATURDAY, March 7	8:00	Breakfast (ABC Hotel)	8:00	Breakfast (ABC Hotel)	8:00	Breakfast (ABC Hotel)	
	9:00-13:00	Free time	9:00-13:00	Appeals	9:00-13:00	Appeals	
	13:30	Lunch (KAMARES)	13:00	Approving Final Scores and	13:00	Approving Final Scores and	
				Medals		Medals	
	15.00		13:30	Lunch (KAMARES)	13:30	Lunch (KAMARES)	
	16:30	Transfer to Planetarium	16:30	Transfer to Planetarium	16:30	Transfer to Planetarium	
CUNDAY Manak 0	20:30 8:00	Dinner & Awards Ceremony	20:30 8:00	Dinner & Awards Ceremony	20:30 8:00	Dinner & Awards Ceremony	
SUNDAY, March 8	8:00 9:00-12:00	Breakfast (ABC Hotel) Departure	8:00 9:00-12:00	Breakfast (ABC Hotel) Departure	8:00 9:00-12:00	Breakfast (ABC Hotel) Departure	
	9:00-12:00	Departure	9:00-12:00	Departure	9:00-12:00	Departure	





SEEMOUS - South Eastern European Mathematical Olympiad for University Students

These regulations were approved by the MASSEE (Mathematical Society of South Eastern Europe) on April 1, 2006.

- 1. The aims of the SEEMOUS include:
 - a. The challenging, encouragement and development of mathematically gifted higher education students in all participating institutions and corresponding countries;
 - b. The fostering of friendly relationships among higher education students and educators of the participating institutions;
 - c. The creation of opportunities for the exchange of information on higher education syllabi and the development of partnerships and networks between the participating institutions;
 - d. The development of young researchers in mathematics and its applications.
- 2. The official language of the SEEMOUS is English.
- 3. The SEEMOUS is organized once every year within the first 15 days of the month of March.
- 4. Countries or universities interested to host SEEMOUS should apply to MASSEE at least 15 months before the date of organization.
- 5. The SEEMOUS Jury shall consist of all leaders of the participating teams representing an institution.
- 6. New participants have to be accepted by MASSEE at least three months before participation.
- 7. Teams represent institutions but results per country will be computed for teams of six students made up by the best six scores of students participating from each country, except if a National team is officially participating. The National teams have to be specified, in writing, by the national Mathematical Society or the Ministry of Education of the country.
- 8. All decisions by the Jury are based on simple majority unless it is otherwise specified. The Chairman may vote only when a tie break is needed.
- 9. The Jury could decide to suggest changes to the regulations. Suggestions are submitted to MASSEE by the chairman of the Jury for changes to be applicable from the next Olympiad. Changes in the regulations can only be approved by MASSEE.
- 10. Deputy leaders may participate in the Jury and they may also replace their leaders in his/her absence.
- 11. Each participating institution has one vote regardless of the size of their team.





- 12. National teams can participate with students not representing institutions or a mixture. If a national team participates with a leader then the leader becomes a member of the jury and has one vote.
- 13. The minutes of the Jury meeting are approved at the last meeting of the jury and before the closing of SEEMOUS. The Chairman of the Jury of the SEEMOUS is obliged to give the minutes of the Jury meetings to all leaders and to send them to the MASSEE Council.
- 14. The Jury may consider and decide on any matter raised, which is not covered by any other regulation item, provided that such decision does not violate the constitution of MASSEE.
- 15. Additional regulations may be added by the Jury, in which case at least two thirds majority is needed. New regulations become effective beginning the next SEEMOUS, provided they are approved by the MASSEE Council.
- 16. The Chairman of the Jury may call as many day meetings as he/she deems necessary during an SEEMOUS or when at least one third of the participating institutions or national representations request an additional Jury meeting.
- 17. Proposals to host an SEEMOUS are discussed during a Jury meeting and recommended to MASSEE by the Jury in an order of preference. The MASSEE shall always approve the host countries/institutions of the next two SEEMOUS.
- 18. Invitations for participation are sent by MASSEE at least two months before the contest day and it should include:
 - a. An invitation up to six students from each institution is sent by MASSEE. Students must be higher education students, who did not complete 120 ECTS (European Credit Transfer System) or the equivalent by the date of the Olympiad;
 - b. An invitation for up to two educators(leader and deputy leader);
 - c. A call for up to three problem proposals with a deadline of one month before the contest date;
 - d. All participants in SEEMOUS will have to cover their own travel, accommodation and subsistence. A participation fee to cover accommodation and subsistence will be determined every year according to the host country and institution. All payments are pre-paid to the local organizer as approved by MASSEE.
- 19. The SEEMOUS contest shall take place during one day and should have duration of 5 hours. The contest paper shall consist of four problems, each carrying 10 points for a total of 40 points maximum.
- 20. Each country/institution except the host institution can propose up to three problems and they should be mailed to MASSEE special Jury secretariat at least one month before the day of the contest. The proposed problems should include their solutions and the field of mathematics that are covering. The proposed problems are given to the Problem Selection Committee appointed by MASSEE.





- 21. The Problem Selection Committee should make a short list of at most 50, but not less than 20 of the problems proposed and present it to the Jury for a final problem selection. The rest of the proposed problems are kept confidential and returned to the team leader of the country/institution, which has proposed them.
- 22. The days before the contest, the leaders, the Jury and members of the Problem Selection Committee shall meet and accommodate at a place different and at distance from the place where students stay. During this meeting, the final contest paper will be decided and approved, translated into different languages and approved and multiplied for the contest. No member of this Committee may communicate by any means with any person other than the members of this meeting and no telephone calls will be allowed until the contest begins. If it is found absolutely necessary for someone to make a phone call, then this will have to be done at the presence of at least two leaders from different countries/institutions other than one hosting the SEEMOUS.
- 23. Each student contestant will submit solutions in the English language. Solutions may be written only on paper provided by the Organizing Committee.
- 24. Each student contestant must work independently. Violation of this provision will result in disqualification of the student contestant from the SEEMOUS. The hosting country/institution should make provisions for preventing the use of any dishonest means during the contest.
- 25. Student contestants are not permitted to bring any books or papers or calculators into the examining rooms. The only instruments permitted in the contest are writing and mechanical drawing instruments. Any student contestant making use of any prohibited item may be disqualified from the SEEMOUS.
- 26. During the first half-hour, only, of the examination period, each student contestant may submit, on special notepaper provided, written questions for considerations by the Jury. Each paper with such questions shall be given, first to the Chairman of the Jury, and then to the team leader of the country from which the student comes. The leader will translate the question into English and will propose an answer. If the Jury approves the answer, the leader will write the answer on the paper with the student contestant question. This paper shall be given to the Chairman of the Jury for verification before it is returned to the student contestant who submitted the question.
- 27. The student contestant's solutions will be assessed in a group evaluation process where all leaders and deputy leaders will participate. The official scores are decided by the coordinators of each problem.
- 28. Problem coordinators will be appointed for each problem, whose responsibility will be to accept and discuss appeals by leaders for assigned scores and correct scores, if necessary. A leader may appeal an assigned score for a specific problem to the Coordinator of the specific problems. If the two cannot agree, the appeal and the reason for rejecting the appeal will be forwarded to the Chief Coordinator who





makes the final decision. Final decisions of the Chief Coordinator are accepted by the Jury by default.

- 29. The type of prizes to be awarded are: Gold Medal, Silver Medal and Bronze Medal. Special prizes may be awarded for particularly meritorious and elegant solutions. A certificate of Honorable Mention shall be awarded to each student contestant who does not receive a prize and who has obtained full marks on at least one question. The total number of prizes will not exceed two thirds of the total number of student contestants participating and the Gold, Silver and Bronze medals will be distributed in a ratio closely approximating 1:2:3. A Certificate of Participation shall be given to all student contestants.
- 30. The schedule of a SEEMOUS event should not exceed 6 nights and may look like the following:

1st day: Arrival and Jury meeting.

2nd day: Opening Ceremony and Jury meeting for problem selection.

3rd day: Contest Day. Papers are saved, approved by the Chairman of the Jury and numbered. Names are hidden.

4th day: Marking of papers by the leaders and deputy leaders. Jury meeting to approve results and medals.

5th day: Excursion and awards day.

6th day: Departure.

- 31. Each hosting institution or country must ensure quality of accommodation and food to reflect the payment of the participants. Also, it has to ensure free use of Computer facilities and Internet access, free copy service and a free excursion for all.
- 32. No hosting institution can violate or modify a regulation without the agreement of MASSEE.





The opening ceremony of SEEMOUS 2020 takes place in the Old Building of the Faculty of Philosophy of the Aristotle University of Thessaloniki.











The contest takes place in the **Amphitheatre Empeirikos** of the Faculty of Sciences of the Aristotle University of Thessaloniki.









All contestants will be accommodated in the **ABC Hotel,** Thessaloniki (Aggelaki 41 Str.), which is situated on the opossite site of the University.









The Leaders will be accommodated during the first three nights in the **Phillipion Hotel,** Thessaloniki (7,2 Km. from ABC hotel). There exist shuttle bus for free transfer to and from the city centre within a pre scheduled timetable.









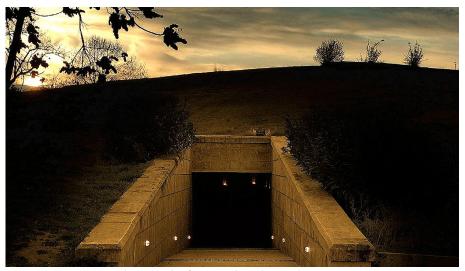
The Award Ceremony and the Gala Dinner will take place at the Planetarium of Thessaloniki (8,9 Km from ABC Hotel).







The excursion is optional and will be at the royal capital of Macedon (Aigai) in Vergina. We shall also have lunch in the town of Edessa where we shall visit the Edessa Waterfalls. All the students must bring their identity card or passport for free entrance to the museum.



Royal capital of Macedon (Aigai) in Vergina



Edessa Waterfalls





ABOUT THESSALONIKI

Thessaloniki (520 km. north of Athens) is the second largest city of Greece and the most important centre of the area. Built near the sea (at the back of the Thermaïkos Gulf), it is a **modern metropolis** bearing the marks of its stormy **history** and its **cosmopolitan** character, which give it a **special beauty** and charm.

Take a <u>tour in the centre</u> of Thessaloniki and plan to visit its <u>nearby destinations</u>. Also, while being in Thessaloniki it is worth going up to <u>Halkidiki</u>.

Visit Thessaloniki's Archaeological sites

- The **ancient forum** (dated to the late 2nd or the early 3rd century AD) with squares, porticoes, additional buildings and odeum (293-395 AD), the palace complex of Galerius Maximianus (4th c. AD), the thermae, the hippodrome, the temples and other monuments and moveable finds (among them mosaics of exquisite art) brought to light in excavations and surveys. In the south square, is the famous Stoa of the Idols, which was two-storeyed and lavishly decorated.
- The Triumphal Arch of Galerius (Kamara), built in AD 305 to commemorate his military successes in general in the eastern provinces of the Roman Empire.
- The Rotunda is an early 4th century building which later was converted into a Christian church.







Visit Thessaloniki's Byzantine monuments

Thessaloniki, with its host of **Byzantine monuments** (due to it's significance during the Byzantine period), justifiably is considered an open-air museum of Byzantine art. Wandering through the city, it is worthwhile to see:

- The churches of Acheiropoietos (5th century) a three-aisled, timber-roofed basilica, the Holy Wisdom of God (Hagia Sophia) (7th century), the Panaghia (Virgin) Chalkeon (1028), Hosios David (12th century), St Panteleemon (late 13th or the early 14th century), is of four-columned cross-in-square type, Ayioi Apostoloi (1310-1314), Taxiarches (14th century), Panagouda a three-aisled basilica with significant icons, Agios Ioannis Prodromos (Nymphaion), Vlatadon monastery a 14th century foundation of which only the katholikon and two cisterns within the precinct survive, Ayios Demetrios a splendid basilica dedicated to the patron saint and protector of the city, etc.
- The **byzantine walls** of the city.
- The **archaeological site** in 3 Septemvriou St., with remnants of a cemetery basilica, a martyrion and Early Christian graves.
- The **byzantine bathhouse** (late thirteenth century).
- The **Heptapyrgion** castle was raised in stages, from the early years of the Byzantine Age into the Ottoman period.



Amazing Ottoman monuments

- The **White Tower** (15th century), the hallmark of the city.
- The **Mosques of the Hamza Bey Cami** (15th century), the Aladja Imaret Cami (1484) and the Yeni Cami (1902).
- **Hamams** (turkish bathhouses): The Pazar Hamam (15th century), the Pasha Hamam (15th century), Bey Hamam (16th century), Yeni Hamam and the Yahudi Hamam.
- **Bezesteni**, a rectangular building with lead-covered domes and four entraces was built in the late fifteenth century and operated as a cloth market.





Discover neighbourhoods and focal points in the city

- The **Old City (Ano Polis)**, in which many notable examples of Ottoman and traditional Macedonian architecture still stand, alongside humble dwellings put up by the refugees who reached Thessaloniki in droves, after the Greek defeat in Asia Minor, in 1922.
- The historical quarter of the **Ladadika**. In recent years, a series of interventions to rehabilitate the urban fabric have helped to enhance the Ladadika as a quarter for leisure pursuits.
- The **traditional markets**: the Modiano, which is housed in a rectangular building of 1922, with pedimented facade and glass roof; the Kapani or Vlalis market; Athonos Square and the 'Louloudadika' (literally flower market).
- Vasilissis Olgas Avenue, lined with many representative Neoclassical buildings and examples of late 19th century eclectic architecture.
- The central **Aristotelous Square**, surrounded by monumental buildings and open to the waterfront for a width of 100 metres.

Other monuments and buildings in the city:

- Mylos (literally mill). An old industrial complex, built in 1924, today have been remodelled to house cultural events and leisure activities, as well as the industrial buildings of the old FIX Brewery and the VILKA plant.
- Lazarist monastery (1886) by the monastic order of the Brothers of Mercy, and now used for cultural events.
- Royal Theatre
- Thessaloniki Concert Hall. A newly-built, magnificent yet austere, multipurpose venue for cultural and other events.
- YMCA Building, a building of 1924, with a mixture of Neocolonial and Byzantesque architectural elements.







Museums

It's worth seeing the Archaelogical Museum, the Museum of Byzantine Culture, the Folk and Ethnographic Museum, the State Museum of Contemporary Art, the Teloglion Foundation of Art, the Thessaloniki Cinema Museum, the Thessaloniki Science Center and Technology Museum, etc.

The above information for Thessaloniki is from http://www.visitgreece.gr/en where you can download a map from Thessaloniki and find much more information for Thessaloniki and other cities of Greece.





USEFUL INFORMATIONS

CURRENCY	EURO 1 EUR = 1.95583 BGN 1 EUR = 4.76660 RON 1 EUR = 3.81955 TMT 1 EUR = 61.6216 MKD 1 EUR = 26.6866 UAH
TIME	GMT+2
WATER	Drinkable
Dial Codes	+30

USEFUL PHONES

Emergency	The European Emergency Number	
(Police, Hospital, Fire Dept.)	112	
SEEMOUS Organizing Committee	0030 6983 917940	

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