

In the Name of God  
Submission for Outstanding Chapter Activities 2017

**ACM Student Chapter, University of Tehran**

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**Description of the School of Electrical and Computer Engineering (ECE)**

URL: <http://ece.ut.ac.ir>

The school of electrical and computer engineering at university of Tehran is one of the most prestigious academic institutions in Iran. Hosting more than 70 academic and 30 support and technical staff, school of ECE provides a friendly, modern and supportive environment which consistently leads to excellence in education and cutting-edge research. Offering both undergraduate and graduate programs, the school is a highly admired engineering college in Iran.

Flexibility of Graduate programs at ECE, encourages students to envision their educational goals early on, and move toward them with assistance of members of the faculty. In addition to participating in the educational curriculum, undergraduate students are welcomed at laboratories.

On average, number of students who major in the fields of Computer Engineering and Information Technology at the school of ECE is:

B.Sc. in Software Engineering:	130
B.Sc. in Hardware Engineering:	100
B.Sc. in Information Technology:	100
M.Sc. in Software Engineering:	20
M.Sc. in Hardware Engineering:	25
M.Sc. in Artificial Intelligence:	15
M.Sc. in Information Technology:	10
PH.D. in Software Engineering:	6
PH.D. in Hardware Engineering:	6
PH.D. in Artificial Intelligence:	6

### **Description of the chapter**

ACM student chapter at University of Tehran began its activity on January 10th, 2001 as the first ACM student chapter in Iran. The main motivation behind establishment of this chapter, was promoting knowledge and adequate skills among students studying computer science. Consistent engagement with students and encouraging them to pursue and improve their ideas, were other goals behind the formation of this chapter. Our engagement with students were mostly in following context:

Conducting introductory sessions in both software and hardware engineering, focused on technologies, methods, and views

Hosting conferences and educational workshops, which in turn leads to better social and managerial skill among students

Forming and participating in groups of special purposes

This chapter is also known as the scientific chapter of the computer engineering college of University of Tehran.

### **Essay**

The activities of University of Tehran ACM Student Chapter during the past year are as follows:

- **UTSec**

UTSec was held at the University of Tehran in two days in the light of the importance of hacking and how it is usually left out. This event consisted of three classes, covering the subjects reverse engineering, web attacks and network attacks followed by a Capture the Flag (CTF) competition. This event was sponsored by [Amnafzar group](#).

300 attendees

- **Panjareh Conference**

This conference was composed of 4 talks and a panel by teachers of University of Tehran, major tech companies, and startups in Iran. It pictured the state of industry and offered advice on career development. This event was sponsored by [Dotin](#).

300 attendees

- **Engineering: To Stay or Not to Stay**

This event was held with the intent to investigate the experience of changing majors with the presence of a number of engineering graduates who went on to study in majors other than engineering. In this event issues such as the reason for this change,

confusions of bachelors, the variety of paths a student can take and the correct way of thinking about this subject were addressed.

300 attendees

- **Technical Talks**

During Christmas holidays, we invited students and researchers who live outside of Iran to give talks. We managed to organize 5 talks on [deep learning](#), [CRSPR](#), [On-Time Actors in Cyber-Physical Systems](#), [Certified Concurrent and Distributed Systems](#), and [Fault-tolerant distributed runtime verification](#), areas that are not covered in the curriculum.

300 attendees

- **Summer of Code**

“Summer of Code” is one of the largest events held by UT ACM Student Chapter since 2012. The target audiences of the event are freshmen and sophomores. It's one of the most effective ways of strengthening social relations between students. Participants work on projects defined by the student chapter for three months in teams of 4-8 people, supervised by a mentor. Many of these projects are a beginning to a long-term cooperation of students with the chapter.

40 attendees

- **Summer classes**

This program’s main goal is to create an appropriate atmosphere during summers for the students interested in learning and cooperating with big-scale software projects and is mainly aimed at freshmen.

Numerous courses were available to both students and attendees from outside the university in summer. Courses varied from Preparation for ACM-ICPC, Introduction to Java Programming, Photoshop and MATLAB to JavaScript, IoT, Marketing Principles, and soft skills.

250 attendees

- **University of Tehran ACM Internet Contest**

Participation in ACM ICPC is one the main programs of the University of Tehran's ACM student chapter, so by holding preparation classes and practice contests the chapter helps talented students to become more adept at ICPC style problem solving.

In 2016, UT ACM contest held both on-site and online (on sharecode.io). 200 teams participated in contest. With former coordination 25 teams of universities of Tehran attended in contest at site of ECE school of University of Tehran.

600 attendees