

# Asia Eastern University of Science and Technology Implementation Guidelines for Special Research of the Department of Electronic Engineering

Passed in the first department affairs meeting on September 1, 2010

Article 1 These Guidelines have been specially established to improve the teaching outcomes and implementation of the department's "special research" courses.

Article 2 These Guidelines apply to the students of the department who enroll in "special research" courses.

Article 3 All full-time teachers in this department have the obligation to lead students in conducting special research.

Article 4 Divide the total number of students taking the course in the current year by the number of full-time teachers in the department, and then round down to a whole number. This whole number plus or minus one gives, respectively, the upper and lower limits of the number of students led by each teacher. The actual number of students led by each teacher can be adjusted according to the actual situation with the approval of the department dean.

Article 5 The special research course is implemented over one year, and the procedures and schedule of which are as follows:

- (I) The topic can be selected by the students, and an instructor suitable for that topic can be found; Or an instructor can be found before deciding on the topic. As a principle, no more than 4 members are in the same group.
- (II) After the topic of each group has been approved by the instructor,

it is then necessary to fill in the student group topic proposal form (Attachment 1) and have the instructor sign it and send it to the department office within three weeks of the start of the semester. The topics and groups for that year will be those announced on the department website after compilation.

- (III) Students who fail to find a special research instructor within the time limit will be uniformly recommended by the department head to full-time teachers of the department who are below the lower limit.
- (IV) If the student wants to change the instructor after having already chosen an instructor, the student must fill in the special research change application form (Attachment 2) and have the old and new instructors sign and agree within six weeks (inclusive) after the start of the semester and then send it to the department for filing.

#### Article 6 Scoring method:

- (I) Day-time student special research competition: The topic competition schedule is held at the end of the first semester of the fourth year of studies. Participants are day-time students taking “special research” in the first semester of their fourth year of studies. The results of the competition will be included in the special research results of the semester. Other relevant competition regulations shall be based on actual announcements.
- (II) Other scoring methods: Except for the first semester of the fourth

year of studies in the daytime program, all special research is graded by the special research instructors at the end of each semester.

Article 7 Schedule and procedures for submitting reports: The special research report must be submitted to the department office within the final exam week of each semester and will not be accepted after the deadline; For group that have not submitted the special report, 10% of the special report grade for the group will be deducted. See the description of "Production of Special Research Results (Attachment 3) " for the format of submitting special research results.

Article 8 These Guidelines shall be implemented after approval by a department affairs meeting. The same applies to all subsequent amendments.

Department of Electronic Engineering, Asia Eastern University of Science and Technology, Special Topics Groups and Proposal Application Form for the \_\_ academic year

Special research category: <input type="checkbox"/> Microcontroller certification <input type="checkbox"/> SOPC prototype system design <input type="checkbox"/> Biomedical electronics <input type="checkbox"/> Other _____	
Special research topic:	
Abstract:	
Scope of topic (To be filled in by the teacher)	<input type="checkbox"/> Participate in research or collaborative projects <input type="checkbox"/> Small topics and associations <input type="checkbox"/> Obtained Grade B license or GEPT elementary level certification <input type="checkbox"/> Participate in off-campus competitions <input type="checkbox"/> Industry internship <40 hours/person> <input type="checkbox"/> Regular special research <input type="checkbox"/> Other. Note: _____

List of group members: (Each group is limited to a maximum of 4; if exceeded, the group must be participating in off-campus competitions)

Class	Student ID No.	Name	Contact number	EMAIL	Experience in specialty related to the research

Signature of Faculty Advisor: \_\_\_\_\_

(\_\_\_\_\_ year) Special Research Change Application  
Form for Department of Electronic Engineering Students

Date of application: \_\_\_\_/\_\_\_\_/\_\_\_\_ (yyyy/mm/dd)

Original special research name					
Original advisor			Class		
Original group member (student ID no.)	Class	Student ID No.	Name	Contact number	EMAIL

Signature of original advisor: \_\_\_\_\_

New special research name					
New advisor			Class		
New group member (student ID no.)	Class	Student ID No.	Name	Contact number	EMAIL
Reason for change					

Signature of the new advisor: \_\_\_\_\_

Director's Signature: \_\_\_\_\_

## Production of Special Research Results of the Department of Electronic Engineering

- I. Special research report (one original):
  1. Write a special research report; each group jointly writes one copy.
  2. Format: Typed out on A4 paper, portrait layout written horizontally. Border of 2 cm from the top and bottom, 1 cm from the right side, 2 cm from the left side, and bound 1 cm from the side.
  3. Content:
    - A: Use the cover and inner page format specified by the Department of Electronics
    - B: Use regular (Chinese) script for all fonts
    - C: Body text (size 16 font, line spacing is set to 1.5 times line height, paragraph headings use bold font); the report must include the following content, among which "equipment" can be omitted.
      - a. Table of contents (including chapters and page numbers)
      - b. Motivation and conception
      - b. Principles and methods (including theoretical basis and system architecture block diagram)
      - c. Circuitry and program flow chart
      - d. Implementation procedures (including work assignments, steps, progress schedule, and time)
      - e. Equipment (including materials, tools, instruments, and costs)
      - f. Description of current progress and difficulties (topic of the last semester; change name to "Results Presentation and Conclusion")
- II. Special research poster (one original):
  1. One original poster per group; all group members are co-authors.
  2. Poster format is mainly A3, font: Huakang Zhonghei (Chinese font), title font: 72  
Class, name, advisor, and title font: 36. Running text font: 22. Illustrations 3. The electronic file of the poster must be editable.
- III. Special research optical disc (in triplicate):
  1. The content of the disc must include "special research production report", "special research poster", and "special research production photos (5 or more)".
  2. The cover format of the special research optical disc is provided by the department.

Submission:

Submission time: Final exam week of each semester.

Submission content: Have the advisor sign before submitting it to the department office within the deadline:

1. Special research report (one original): Bound.
2. Special research poster (one original): Burned to a optical disc.
3. Special research optical disc (in triplicate): Electronic files of the special report and poster

are enclosed.

Department of Electronic Engineering,  
Asia Eastern University of Science and Technology  
Student special research report

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Unsupervised Fuzzy Pattern  
Classification Approach Based on  
Data Distribution and Feature  
Weights (example)

Special research students: ○○○(951030233)

○○○(951030234)

○○○(951030235)

○○○(951030235)

Advisor: ○○○

2010/\_\_\_\_/\_\_\_\_ (mm/dd)



\_\_\_\_\_ academic year, Department of Electronics  
Student special research report

☐ Microcontroller certification ☐ SOPC prototype system design

☐ Biomedical electronics

☐ Other \_\_\_\_\_

Title: \_\_\_\_\_

Name of your advisor: \_\_\_\_\_

Name of group member:

Student No.:

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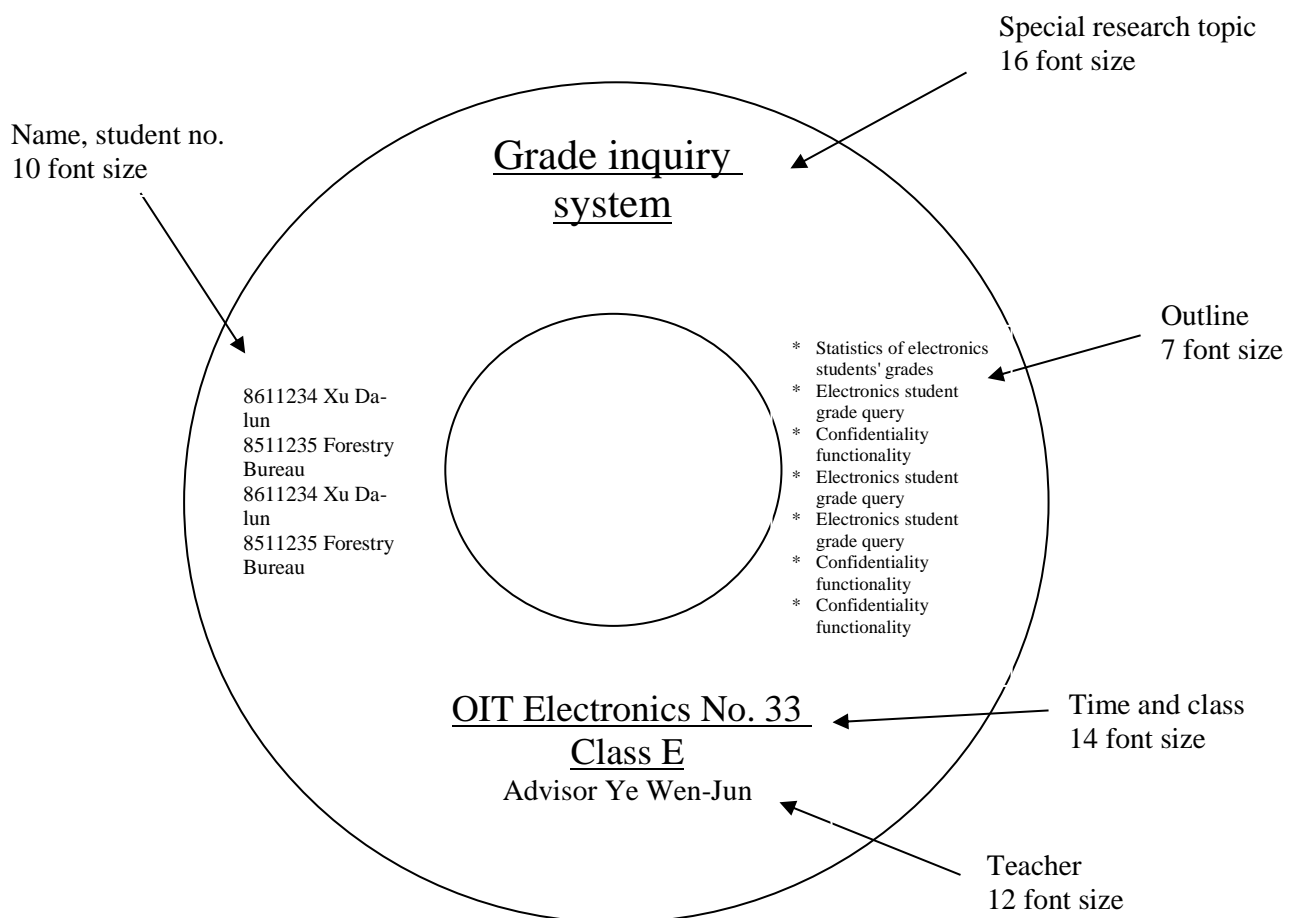
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Advisor's reviews and signature: \_\_\_\_\_

1. The format of optical disc cover label is as follows:



- The background color should not be too dark (the submitted manuscript must be printed with the background)
- For all fonts, use regular (Chinese) script in black, set to single-line spacing; the font size is as specified in the figure.
- The "Outline" items that must be listed begin with \*, and must explain the key points and main functions of the topic. The details are shown in the figure.
- Manuscripts must be submitted with the class noted

