

Subjects for the Graduation Projects, proposed to students of “Mechantronic Systems”.

prof. Todor Neshkov

1. Mechatronic approach for Design
2. Mechatronics and Computer Integrated Manufacturing - an integrated approach
3. Education in macaronis - bachelor and master program oriented to industry

assoc. prof Konstantin Dimitrov:

It is recommended the students to work as a team on these projects, because they are related.

1. Logistics Structures and Mechatronic Systems Applied in a Zinc Galvanizing Facility.
2. Mechatronic Systems for Monitoring and Supervision of Technological Processes in a Zinc Galvanizing Facility.
3. Mechatronic Systems for Supervision of the Waste-Treatment in a Zinc Galvanizing Facility.
4. Mechatronic Systems for Control of Industrial Equipment in a Zinc Galvanizing Facility.

assoc. prof Ivanka Kalimanova

1. Photoelectric autocollimator
2. Colorimeter
3. Laser alignment system

assoc. prof. Todor St. Todorov

1. Design of Shape memory actuator for valve
2. Creation and investigation of piezoelectric kinetic MEMS energy harvester
3. Development of MEMS-based vibro-impact energy harvester

assoc. prof. Geno Hadjikosev:

1. Manufacturing technology for CNC lathes.
2. Manufacturing technology for CNC machining centers.
3. Manufacturing technology for CNC wire cutting EDM.

assoc. prof Boris Tudjarov

1. Web based Modeling of Mechatronic Systems
2. Web Intelligence & Mechatronic Systems
3. Reactive Planning the Trajectory of Mechatronic Systems

ass. prof. dr Maria Aleksandrova

1. Technology for production of pressure microsensors for MEMS devices.

prof. Tihomir Takov

1. Investigation of Application-Specific Hall Sensor Integrated Circuits;
2. Integrated Hall Effect Sensors, Linear and Digital Devices.

ass. prof. dr. Alexander Tzokev

1. Design and programming of an automated process control system for preparation of chocolate bar desserts.
2. Control program for packaging of small chocolate desserts system in automated control production.

assoc. prof. Ivo Ianakiev

1. Design and development of embedded system for data acquisition from a industrial portal robot.
2. Development of manual control for industrial portal robot.
3. Implementation of RapMan technology for design and production of a industrial portal robot gripper.
4. Programming of an articulated industrial robot “ABB” by proprietary software solution

Diploma projects of prof. Lubomir Dimitrov, ass. prof. Petko Nedyalkov and assoc. prof. Milka Vicheva will be announced.

If you have some questions contact with prof. Todor Neshkov.

Декан на МФ
проф. д-р инж.Л. Димитров
.....

До
Р-ля на катедра
.....
ТУ-София

МОЛБА

От студента.....

Факултет..... ф. №....., курс....., група....., спец.....

Адрес:.....

Телефон:..... e-mail:.....

Уважаема г-жо/г-н ръководител на катедра,

Моля да ми разрешите да разработя дипломната си работа в катедра

“.....”..... с

ръководител на дипломната ми работа

..... на

дипломна тема

.....

.....

.....

София,2012г.

С уважение:.....

Съгласен!.....

.....

/Р-л на дипломна работа/



TECHNICAL UNIVERSITY OF SOFIA

FACULTY OF MECHANICAL ENGINEERING

Deadline:

Dean:.....

Name: Prof. Dr. Eng. L. Dimitrov

RESEARCH PROJECT ASSIGNMENT
BEng course in Mechatronic Systems

1. Student's name:

Faculty No:

2. Project title:

3. Basic project specifications:

.....
.....

4. Contents:

a) Introduction

b) State -of-the -Art and trends

c) Basic theory, analysis, synthesis, hardware and/or software development, design, block diagrams, justifications (as applicable!)

d) Equipment

e) Simulations, experiments and analysis

f) Conclusions

g) Others (if applicable):

.....
.....

Project supervisor:.....

Deputy Dean:.....

Name:

Name: Assoc. Prof. M. Vicheva

Consultant:.....

Name:.....

Note: the requests of the students who have unpassed exam and unclosed 8th semester are not going to be accepted.

DIPLOMA PROJECT REQUIREMENTS

1. Title and Contents related to Mechatronic Systems.

2. Pre-Diploma Project – State-of-the-art on the topic and List of references; Structure of the Diploma Project and List of References. Volume: 20-30 pages and title page.

The Project will be reviewed by the supervisor and Prof. Neshkov.

3. The Diploma assignment /Final variant/ have to be ready before starting the work on the Diploma Project.

4. The printed and bound Diploma Project have to contain:

4. 1. Title page and Assignment page with signatures and official stamp;

4. 2. Volume of the Bound: 60-120 pages, minimum 10 figures, List of references incl. more than 10 titles, Structure/Contents, Annexes etc.

5. The Diploma Project has to be presented with at least 15-30 slides using Power Point within approx. 10 minutes.

6. The Diploma Project completed with the Review has to be submitted at least one week prior to the date of presentation.

THE STUDENTS FROM THIRD COURSE, PROFESSIONAL FIELD MECHANICAL ENGINEERING HAVE TO CHOOSE FOR THE VII SEMESTER :

1. OPTIONAL SUBJECT 1

<i>LIST 1</i>		lecturers
1.	Modelling and simulation of mechanical systems	assoc. prof. Tomov
2.	Manipulators and robots	assoc. prof. B. Grigorov
3.	Measuring Devices	assoc. prof. V. Bogevev
4.	Non-destructive Control	ass. prof. D. Ganchev

2. ENGINEERING DESIGN PART II (COURSE PROJECT)

39	Quality Management and Control	ass. prof. V. Kamenov
40	European Technical Legislation and Standardization	assoc. prof. Vicheva
41	Computer Integrated Manufacturing	prof. T. Neshkov
42	Optional subject 1	
43	Construction and Road Equipment	prof. V. Panov

THE STUDENTS FROM PROFESSIONAL FIELD MECHANICAL ENGINEERING HAVE TO CHOOSE FOR THE VIII SEMESTER :

3. OPTIONAL SUBJECT 3

<i>LIST 2</i>	
1.	Intelligent Manufacturing Systems
2.	Loading and warehouse logistics
3.	Office Devices

NOTE: THE NOTICE OF THE OPTIONAL SUBJECTS WILL BE MADE IN OFFICE:3242 UNTIL 22.06.2012.

AWARDS FOR OUTSTANDING SUCCESS WILL BE PAID IN OFFICE 1341 FROM 10:00 UNTIL 12:00a.m AND FROM 1:30 UNTIL 3:30 p.m

FIRST PAYMENT:

FROM 04.06.2012- 12.06.2012
FROM 18.06.2012- 28.06.2012
FROM 01.07.2012- 20.07.2012

SECOND PAYMENT:

01.10.2012-30.10.2012

LIST OF THE STUDENTS:

Курс/Специалност	Име Презиме Фамилия	Фак. Номер
3 Курс Маш-АЕ	ЕМИН ЧОЛАК	313210026
3 Курс Маш-АЕ	ЙЕТМЕН ЙЪЛМАЗ	313210071
1 Курс МС-АЕ	ЕРГИН ЮСЕИН САБРИ	283211182
2 Курс МС-АЕ	ХАСАН МЕШХУРТЮРК	283210114
2 Курс МС-АЕ	ЕРХАН ЕРДИНЧ ИДАЕТ	283210121
3 Курс МС-АЕ	МЕТИН ЧАТАК	283209044
3 Курс МС-АЕ	МЕХМЕТ ЧЕШМЕДЖИ	283209049
3 Курс МС-АЕ	АЛИ КЕМАЛ ДОГАН	283209050
3 Курс МС-АЕ	СЕЗЕР СЕЛИМ СЮЛЕЙМАН	283209062
3 Курс МС-АЕ	ТОДОР ГЕОРГИЕВ ЕМИЛОВ	283209066
3 Курс МС-АЕ	СЕМИХ ЮНАЛ	283210128
3 Курс МС-АЕ	ИБРАХИМ МЕМЕТ ОЛГУНЛУ	283210139
3 Курс МС-АЕ	ЮМЕР БАХАДЪР КОДЖАБЪЙЪК	283210174
4 Курс МС-АЕ	СЕДА ГЮЛЕЧ	283208007
4 Курс МС-АЕ	СЕЧКИН ЙЕНЕРЕР	283208008
4 Курс МС-АЕ	НОЯН НАМОГЛУ	283208019
4 Курс МС-АЕ	ГАЛИН ДИНКОВ РОСЕНОВ	283208030
4 Курс МС-АЕ	АЛШЕР ТУРГУЛ	283208033

4 Курс МС-АЕ	ИЛХАН РЕДЖЕБ ФЕЙЗУЛА	283208034
4 Курс МС-АЕ	КРАСИМИР ДЕЯНОВ ДЕЯНОВ	283208035
4 Курс МС-АЕ	ФАРУК ГЮРЕЛ	283208038
4 Курс МС-АЕ	ГЮЛЕР ГЮНЕР РЕДЖЕБ	283208003
4 Курс МС-АЕ	ФИЛИП ЮРИЕВ АНДОНОВ	283208004
4 Курс МС-АЕ	АЛПЕР ТУРГУЛ	283208033
4 Курс МС-АЕ	СЛАВИ БИСЕРОВ МИХАЙЛОВ	283208036

**CONSULTATIONS FOR MATHEMATICS II EXAM ON 06.06.2012,
08.06.2012 AND 11.06.2012, TIME:2:00-4:00 P.M, HALL:2538.**

ASSOC. PROF. VIRBANOVA

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Deadline for Pre-Diploma Project:12.06.2012

Deadline for Diploma Project: 30.06.2012