

**TECHNICAL UNIVERSITY OF GABROVO
FACULTY OF ECONOMICS**

Endorsed with Academic Council resolution
Record No 10 dated 03.07.2012.

Approved by,
Rector: /s/

QUALIFICATION REFERENCE

Degree course: **INDUSTRIAL MANAGEMENT**
Master's program in: **INNOVATIVE AND INVESTMENT MANAGEMENT IN INDUSTRY**
Educational-qualification degree: **MASTER**
Field of higher education: **TECHNICAL SCIENCES /code 5./**
Professional trend: **GENERAL ENGINEERING /code 5.13/**
Professional qualification: **MASTER OF INDUSTRIAL MANAGEMENT**

ANNOTATION

Training in this Master's program will raise the educational level and capacity of bachelors in the managerial aspects of development and introduction of new products. It adds further level of interdisciplinary knowledge in project management, generation and implementation of innovative solutions, nonconventional materials, high technologies, investment risk and insurance.

Acquisition of disciplines included in the program enables prospective master degree holders to determine their own field of professional realization and development in the context of inevitable competition, market economy and aggravating economic crisis.

The program is consistent with the Order for application of the system for academic credit transfer in institutions of higher learning.

VOCATIONAL PURPOSE

Training in the Master's program and the knowledge acquired by students enables them to carry out managerial functions and processes which are related to:

- ✓ innovations in SMB;
- ✓ national and European innovation policy;
- ✓ industrial clusters;
- ✓ valuation of innovative projects;
- ✓ capital budgeting;
- ✓ investment risk and insurance;
- ✓ nonconventional materials in industry;
- ✓ highly effective industrial technologies, etc.

TRAINING REQUIREMENTS

Training in the master's degree program in **Innovative and Investment Management in Industry (IIMI)** will be carried out, based on the training received by bachelor degree holders at Technical University of Gabrovo and other related universities.

The general study plan builds up on the training received by students in the degree courses of Industrial management and Management of economy and takes two semesters – *1 semester of contact hours plus 1 semester of contact hours, pre-graduation practice and writing of thesis work in accordance with the parameters of the Master's degree syllabi endorsed by the Academic Council (Record No11dated 30.06.2009)*. Bachelor degree holders, who graduated other degree courses taught at TU-Gabrovo, will need a preparatory semester to align their training with the study plan of the degree course in Industrial management viz. 3 semesters in all. Training in this program is full-time and part-time. The course curriculum includes elective subjects to meet the individual interests of students.

AREAS OF REALIZATION

Master's degree holders in Industrial management are in possession of solid background which enables them to follow a successful career in manufacturing enterprises from SMB, entrepreneurial and consultancy activities.

Successful graduates of the Master's degree course in **IIMI** are well able to realize their professional knowledge, skills and competencies in the following professional trends:

- ✓ *Organization and management of industrial enterprises;*
- ✓ *Methods for generation of innovative ideas;*
- ✓ *Methods and techniques for improvement of outcomes;*
- ✓ *Financial-economic analysis of organizations' activities;*
- ✓ *Development and introduction of innovative solutions in manufacture/production;*
- ✓ *Funding of innovative projects;*
- ✓ *Development of strategies for investment development of companies;*
- ✓ *Financial and stock markets, etc.*

Endorsed with Faculty Council resolution, Record No 6 dated 26.06.2012

Department Chair: /s/

Dean: /s/

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CURRICULUM

Degree course: **INDUSTRIAL MANAGEMENT**

Master degree program: **INNOVATIVE AND INVESTMENT MANAGEMENT IN INDUSTRY**

Academic degree: **MASTER**

Higher education area: **TECHNICAL SCIENCES /code 5./**

Professional trend: **GENERAL ENGINEERING /code 5.13./**

Professional qualification: **MASTER OF INDUSTRIAL MANAGEMENT**

Form of training: **FULL-TIME**

Duration of training: **2 /TWO/ SEMESTERS**

No	SUBJECTS TAUGHT	FORMS OF ASSESSMENT		COURSE- WORK	WORKLOAD IN NUMBER OF ACADEMIC HOURS				WEEKLY DISTRIBUTION	TYPE OF SUBJECT	ECTS CREDITS T / C
		E- EXAMIN ATION	CA – CONTINUOUS ASSESSMENT		LECTU- RES	SEM. CLASSES	LAB. CLASSES	TOTAL	L+SC+LC		
1	2	3	4	5	6	7	8	9	10	11	12
	First Semester										
1.1.	Innovations in small and medium businesses	E		CW	30	15	0	45	2+1+0	E	5/1,8
1.2.	Innovative management in industrial enterprises										
2.1.	National and European innovation policies	E			30	15	0	45	2+1+0	E	4/1,8
2.2.	Industrial clusters										
3.1.	Financial innovations and management	E			30	15	0	45	2+1+0	E	4/1,8
3.2.	Capital budgeting										
4.	Development and introduction of innovative solutions	E			30	0	30	60	2+0+2	C	5/2,2
5.	Non-conventional materials in industry	E			30	0	30	60	2+0+2	C	5/2,2

6.	Information back up of project management		CA	CW	30	0	15	45	2+0+1	C	5/1,8
7.	Course project on development and introduction of innovative solutions (No4)		CA							C	2/0
	<i>Analysis and assessment of competitiveness</i>		(CA)		(15)	(15)	(0)	(30)	(1+1+0)	(O)	(2/1)
	<i>Re-engineering Management</i>										
	first semester	5E	2CA	2CW	180	45	75	300	12+3+5=20		30/11,6
	Second Semester										
8.	Efficient industrial technologies	E			32	0	32	64	4+0+4	C	5/2,2
9.	Methods of investment projects assessment	E			32	24	0	56	4+3+0	C	4/2
10.1.	Investment risk and insurance	E			32	24	0	56	4+3+0	E	4/2
10.2.	Innovative entrepreneurship and risk										
	Pre-graduation apprenticeship										2/0
	Thesis work										15/0
	second semester	3E			96	48	32	176	12+6+4=22		30/6,2
	Total for Master degree program	8E	2CA	2CW	276	93	107	476			60/17,8

ABBREVIATIONS USED:

- C – compulsory subjects according to the curriculum
- E – elective subjects
- O – optional subjects
- T – Total number of credits
- C – Credits from contact hours

SUBJECTS		WORKLOAD	
TYPE	NUMBER	HOURS	%
C	6	285	59,87
E	4	191	40,13
TOTAL:	10	476	100
O	1	30	

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Department Chair: /s/

Dean: /s/