



## Programme Report

### Academic year 2013 / 2014

**University :** Minoufia University  
**Faculty :** Faculty of Engineering  
**Department:** Civil Engineering

#### A- BASIC INFORMATION:

1. Programme Title	<b>Civil Engineering</b>
2. Specialization	Civil Engineering (general)
3. Programme Duration	<b>5 years</b>
4. No. of Credit hours/ No. of Courses	( 161 ) Theoretical + (139 ) Practical = <b>300 hours</b>
5. Policy for constitution of examiner boards	Department Board
6. External Examiners system	Available <input type="checkbox"/> Unavailable <input checked="" type="checkbox"/>

#### B- PROFESSIONAL INFORMATION

<b>7. Statistics :</b>																
-No. of Students enrolled in the programme	<b>220</b>															
- Percentage of students passing the programme (%)	<b>96.36 %</b>															
- Trend of Joining the programme (According to the No. of students Joining the programme in last three years ) :	Increasing <input checked="" type="checkbox"/> Constant <input type="checkbox"/> Decreasing <input type="checkbox"/>															
<b>Final exam results :</b>																
<b>Grading : No. and percentage in each grade</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"><b>Excellent</b></td> <td style="width: 33%; text-align: center;"><b>20</b></td> <td style="width: 33%; text-align: center;"><b>9.09 %</b></td> </tr> <tr> <td><b>Very Good</b></td> <td style="text-align: center;"><b>100</b></td> <td style="text-align: center;"><b>45.45 %</b></td> </tr> <tr> <td><b>Good</b></td> <td style="text-align: center;"><b>68</b></td> <td style="text-align: center;"><b>30.91 %</b></td> </tr> <tr> <td><b>Passable</b></td> <td style="text-align: center;"><b>7</b></td> <td style="text-align: center;"><b>3.18 %</b></td> </tr> <tr> <td><b>Pass</b></td> <td style="text-align: center;"><b>25</b></td> <td style="text-align: center;"><b>11.36 %</b></td> </tr> </table>	<b>Excellent</b>	<b>20</b>	<b>9.09 %</b>	<b>Very Good</b>	<b>100</b>	<b>45.45 %</b>	<b>Good</b>	<b>68</b>	<b>30.91 %</b>	<b>Passable</b>	<b>7</b>	<b>3.18 %</b>	<b>Pass</b>	<b>25</b>	<b>11.36 %</b>
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<b>8. Academic Standards :</b>		
<b>-Achievement of Program Intended Learning Outcomes</b>		<b>Achieved</b>
<b>- Academic Reference Standards</b>	<b>NARS</b>	
<b>Knowledge and Understanding</b>	Engineering	<p>A.1) Concepts and theories of mathematics and sciences, appropriate to Civil Engineering.</p> <p>A.2) Basics of information and communication technology (ICT)</p> <p>A.3) Characteristics of engineering materials related to Civil Engineering.</p> <p>A.4) Principles of design including elements design, process and/or a system related to Civil Engineering.</p> <p>A.5) Methodologies of solving engineering problems, data collection and interpretation</p> <p>A.6) Quality assurance systems, codes of practice and standards, health and safety requirements and environmental issues.</p> <p>A.7) Business and management principles relevant to engineering.</p> <p>A.8) Current engineering technologies as related to Civil Engineering.</p> <p>A.9) Topics related to humanitarian interests and moral issues.</p> <p>A.10) Technical language and report writing</p> <p>A.11) Professional ethics and impacts of engineering solutions on society and environment</p> <p>A.12) Contemporary engineering topics.</p>
	Civil Engineering	<p>A.13) Engineering principles in the fields of reinforced concrete and metallic structures' analysis and design, geodetics and foundations, hydraulics and hydrology, water resources, environmental and sanitary engineering, roadways and traffic systems, surveying and photogrammetry</p> <p>A.14) Properties, behavior and fabrication of building materials</p> <p>A.15) Projects and construction management including planning, finance, bidding and contracts</p>
<b>- Intellectual Skills :</b>	Engineering	<p>B.1) Select appropriate mathematical and computer-based methods for modeling and analyzing problems.</p> <p>B.2) Select appropriate solutions for engineering problems based on analytical thinking.</p> <p>B.3) Think in a creative and innovative way in problem solving and design.</p> <p>B.4) Combine, exchange, and assess different ideas, views, and knowledge from a range of sources.</p> <p>B.5) Assess and evaluate the characteristics and performance of components, systems and processes.</p> <p>B.6) Investigate the failure of components, systems, and processes.</p> <p>B.7) Solve engineering problems, often on the basis of limited and possibly contradicting information.</p> <p>B.8) Select and appraise appropriate ICT tools to a variety of engineering problems.</p> <p>B.9) Judge engineering decisions considering balanced costs, benefits, safety, quality, reliability, and environmental impact.</p> <p>B.10) Incorporate economic, societal, and environmental and risk management dimensions in design.</p> <p>B.11) Analyze results of numerical models and assess their limitations.</p>

		B.12) Innovate systematic and methodic approaches when dealing with new and advancing technology.
	Civil Engineering	B.13) Select appropriate building materials from the perspective of strength, durability, suitability of use to location, temperature, weather conditions and impacts of seawater and environment B.14) Select and design adequate water control structures, irrigation and water networks, sewerage systems and pumping stations B.15) Analyze and select codes of practices in designing reinforced engineering concrete and metallic structures of all types. Determine the levels, types and design systems of building foundations, tunnels and excavations B.16) Define, plan, conduct and report management techniques B.17) Assess and evaluate different techniques and strategies for solving engineering problems
<b>- Professional and Practical Skills :</b>	Engineering	C.1) Apply knowledge of mathematics, science, information technology, design, business context and engineering practice integrally to solve engineering problems. C.2) Professionally merge the engineering knowledge, understanding, and feedback to improve design, products and/or services. C.3) Create and/or re-design a process, component or system, and carry out specialized engineering designs. C.4) Practice the neatness and aesthetics in design and approach. C.5) Use computational facilities and techniques, measuring instruments, workshops and laboratory equipment to design experiments, collect, analyze and interpret results. C.6) Use a wide range of analytical tools, techniques, equipment, and software packages pertaining to Civil Engineering and develop required computer programs. C.7) Apply numerical modeling methods to engineering problems. C.8) Apply safe systems at work and observe the appropriate steps to manage risks. C.9) Demonstrate basic organizational and project management skills. C.10) Apply quality assurance procedures and follow codes and standards. C.11) Exchange knowledge and skills with engineering community and industry. C.12) Prepare and present technical reports.
	Civil Engineering	C.13) Use laboratory and field equipment competently and safely C.14) Observe, record and analyze data in laboratory and in the field C.15) Practice professionally construction management skills. Prepare technical drafts and detailed drawings both manually and using CAD C.16) carry out maintenance of all types of roadways and traffic systems C.17) Prepare quantity surveying reports C.18) Plan, design, constructs, operate, control and carry out maintenance of all types of roadways and traffic systems.
	Engineering Civil Engineering	D.1) Collaborate effectively within multidisciplinary team. D.2) Work in stressful environment and within constraints. D.3) Communicate effectively. D.4) Demonstrate efficient IT capabilities. D.5) Lead and motivate individuals. D.6) Effectively manage tasks, time, and resources. D.7) Search for information and engage in life-long self learning discipline. D.8) Acquire entrepreneurial skills. D.9) Refer to relevant literatures.
<b>General and Transferable Skills :</b>		

<b>- Methods of Supporting the Low- Capacity – Students and outstanding students :</b>	For low capacity students	Assign a portion of the office hours for those students.
		Give them specific tasks.
		Repeat the explanation of some of the material and tutorials.
		Assign a teaching assistance to follow up the performance of this group of students.
	For outstanding Students	Hand out project assignments to those students.
		Give them some research topics to be searched using the internet and conduct presentation.
		Encourage them to take parts in the running research projects.
<b>-References standards for the program :</b>	<b>Assessment</b>	<b>NARS</b>
<b>- Guidebook for the program :</b>	<b>Available</b>	<input checked="" type="checkbox"/>
	<b>Unavailable</b>	<input type="checkbox"/>
<b>- Periodical revision system for the program :</b>	<b>Available</b>	<input checked="" type="checkbox"/>
	<b>Unavailable</b>	<input type="checkbox"/>
	<b>Yearly</b>	<input type="checkbox"/>
	<b>More than year</b>	<input checked="" type="checkbox"/>
<b>- Adequacy of the program academic Structure With the outcomes :</b>	The Civil Department has a variety of staff in diverse specifications that cover all the necessary teaching and training efforts to achieve the ILOs of the program. This is dynamically changing according to accepted number of students and the number of staff on special leave.	
<b>- Management and organization defects :</b>	Official leaves of staff enforced by laws may present a staff deficiency in some specialization in the program.	

### ***9. Students assessment to measure the achievement of the Intended learning outcomes (ILOs)***

<b>- Assessment Tools :</b>	<ol style="list-style-type: none"> <li>1. Written examinations</li> <li>2. Oral examinations</li> <li>3. Practical examinations</li> <li>4. Class work</li> <li>5. Laboratory work</li> </ol>
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	<b>6. Quizzes</b>
<b>- Schedules :</b>	1. End of term 2. End of term 3. Around End of term 4. Along the course 5. At selected timing <b>6. Quizzes as selected timing</b>
<b>- External reviewer</b> <b>- Comments ( if any ) :</b>	
<b>10- Learning resources :</b>	
<b>- Ratio of department members to students :</b>	No. and ratio of faculty members and their assistants to student: <b>45/ 845 5.4 %</b>  Almost (1 staff for 19 students)
<b>- Matching of department members specialization to program needs :</b>	<b>Adequate</b> <input type="checkbox"/> <b>Adequate to some extent</b> <input type="checkbox"/> <b>Inadequate (Why?)</b> <input checked="" type="checkbox"/> Drop in some specializations (due to official leaves), remedial through assigning similar specialization for teaching.
<b>- Adequacy of library :</b>	<b>Adequate</b> <input type="checkbox"/> <b>Adequate to some extent</b> <input checked="" type="checkbox"/> <b>Inadequate (Why?)</b> <input type="checkbox"/> To be updated with new references
<b>- Adequacy of laboratories :</b>	<b>Adequate</b> <input type="checkbox"/> <b>Adequate to some extent</b> <input checked="" type="checkbox"/> <b>Inadequate (Why?)</b> <input type="checkbox"/> Under continuous upgrade
<b>- Adequacy of computer facilities :</b>	<b>Adequate</b> <input type="checkbox"/> <b>Adequate to some extent</b> <input checked="" type="checkbox"/> <b>Inadequate (Why?)</b> <input type="checkbox"/> Department has its own computer lab fairly equipped and requires periodical upgrade
<b>- Extent of cooperation with industry and business community in</b>	Through faculty management (still need improvement)

providing training opportunities for students :	
- Any other program needs :	Making available more educational space\ rooms
<b><i>11- Quality management and development</i></b>	
- Follow up system for defects sides.	<b>Effectual</b> <input type="checkbox"/> <b>Effectual to some extent</b> <input type="checkbox"/> <b>Ineffectual (Why?)</b> <input checked="" type="checkbox"/>
- Effectiveness of faculty and University laws and regulations :	<b>Adequate</b> <input checked="" type="checkbox"/> <b>Adequate some extent</b> <input type="checkbox"/> <b>Inadequate (Why?)</b> <input type="checkbox"/> <b>List any inadequacies</b> <input type="checkbox"/> Through internal faculty procedures
- Effectiveness of internal revision system in development the program :	Fairly Effective through continuous communications
- Comments of external reviewers in respect to the program ILOs and assessment standards	Attached

<b><i>12- Proposals for program development</i></b>	
-Programme Structure (Courses/hours)	New Bulletin (Layha) was prepared for the department under approval
- Courses , deletions and additions and modifications	Included in new Bulletin
- Training and Skills	Extend training with other stakeholders
- Stakeholders recommendations for development of the programme	Verbal Contacts with some of current stakeholders to be transformed into written recommendations
- Preson responsible	Department Head

- <b>Completion date</b>	One academic year
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<b>Coordinator of Program Quality Assurance Committee</b>	<b>Head of Civil Dept. Council</b>
<b>Prof. Magdy Tayel</b>	<b>Prof. Mahmoud Elsheikh</b>
14\ 12 \ 2014	14\ 12 \ 2014

**Programme Coordinator :**

**Signature :**

**Date :**

**Head of Department :**

**Signature :**

**Date :**