Plan of Civil Engineering Department of Community Service for Year 1439 H

Introduction:-

The College of Engineering - Civil Engineering - seeks to develop renewed work plans with ambitious goals to achieve effective community contributions. Which will stimulate faculty members and students at all levels to serve the community. The Faculty of Engineering aspires to provide academic services to all levels of society, including all institutions of the State, private institutions and civil society institutions, so that everyone can exchange experiences and creative ideas aimed at developing society and sustaining sustainability in all sectors of engineering and industry. In the areas of sustainable engineering development. The College of Engineering will continue to work with ambitious and short-term plans. In this regard, each department of engineering will submit a five-year plan (five years) to ensure that the College is closely linked to community service and to the implementation of ambitious and sustainable programs. In this report, a brief description of the civil engineering plan for the community.

Committee for Scientific Research and Community Service:-

A committee was formed by the Civil Engineering Department to organize and manage all activities related to scientific research and community service. One of the most important responsibilities of this committee is to draw up strategic plans and service programs to transfer expertise and engineering skills to government and private institutions and individuals interested in community development.

1-Prof. Ahmed Helmi Civil Engineering

2- Dr. Saleh Hamel Civil Engineering

Ways to verify the effectiveness of strategic objectives for community service:-

A set of performance indicators has been monitored for the purpose of continuous development and an annual report of all activities completed and compared to the previous year. This table therefore presents the strategic objectives and associated activities. This table also shows the percentage of achievement of the strategic objective and completion of its activities. This activity is evaluated by performance indicators as shown below.

Objectives and Performance Indicators for Community Service						
No	Strategic objectives related to the institution's relationship with the community	Key Performance indicators	Activities achieved 100%	Activities Partially achieved (%)	Evidences	Remarks
1	Disseminate knowledge and awareness of the global orientation of community members	Number of education programs provided by the college to the community				
2	Develop a strategic partnership with the public and private sectors for community development	Number of agreements , scientific and research consultations with community institutions				
3	Preparing programs aimed at preparing human resources and	•Student participation in community activities •Participation rate of faculty members				

	conscious leaders	in community activities				
4	Contribute to solving the problems of the local community	Number of cooperative projects provided to the public or private sector				
5	Meeting the needs of the community inside and outside the university	Percentage of community satisfaction within and outside the university for the services provided				

Proposed training programs to contribute to the service of the community: Department of Civil Engineering - Faculty of Engineering

This year, the Department of Civil Engineering offers 1439 training courses, workshops and lectures designed to keep abreast of modern technologies and global trends by providing important courses for engineers who wish to develop their skills and obtain the latest technology and engineering information. Courses for this year include a series of courses in three different disciplines: (a) hydrology, hydrology and flood risk reduction methods; (b) reinforced concrete life cycle from laboratory to site; (c) latest technical techniques in surveying such as Total Station and GPS.

Faculty Members (Trainers):-

- **Dr. Abdul Alnoor Ghanem (Associate Professor)**
- **Dr. Esmail Elkhrachy (Assistant Professor)**
- **Dr. Ibrahim Hakeem (Assistant Professsor)**

Details (description of training program - training and cost requirements) Department of Civil Engineering - Faculty of Engineering

Session Name	Description (program) session	Trainee Name	– Target group Participating parties	Time		Participants from outside Najran University	Training requirements (Apparatus - tools - programs)	Estimated Cost Per Day or hour
				Days	Hrs			
Disaster Risk Reduction Floods and landslides	The current reality of flood disasters and landslides in Saudi Arabia. The role of relief and disaster relief organizations and bodies, identify the role that can be played to collaborate with disaster relief and disaster risk reduction agencies and organizations, how to manage disasters at the community level, identify international and Arab disaster risk reduction strategies, and how to plan and work Consistent with their response, and presented the experiences of some States in that area	**Dr. Abdul noor**	- Civil engineers working in the design of facilities to reduce flood disasters and landslides -Workers working in the areas concerned with reducing flood disasters and landslides	4	3	**Employees in:-** -General Directorate of Civil Defense -Ministry of Municipal and Rural Affairs -Ministry of Environment, Water and Agriculture -General Authority for Meteorology and Environmental Protection	1.Bowerpoint 2. Large sheets. 3. Large leaf holder. 4. Flomster pens	3000 (SR/Day)

Concrete from the plant to the site	The course program aims at giving the trainees the basic concepts of their engineering and the necessary tests and the production of concrete with high specifications serving in all the surrounding environments. It also aims to train the engineers to prepare the designs of different concrete mixtures depending on the required resistance and local conditions and the most important requirements for implementation in the site according to international standards. There will also be field visits to the laboratories to identify the equipment and tests of the special works of the field and there will be a visit to the field of buildings under construction to identify the necessary precautions during the implementation of construction buildings	**Dr.Ibrahim Hakeem**	Civil engineers working in the field of Indian Chinese designers, supervisors, consultants and site engineers Engineers working in the field of laboratories and tests of special materials	4	3	**Engineers working in:** -General Authority of Engineers -Regional Secretariat in the Kingdom -Municipalities offices -contracting companies *-Engineering & Consultancy Offices* *-Engineers working in the field of design and implementation of construction works*	1.Bowerpoint 2. Large sheets. 3. Large leaf holder. 4. Flomster pens	3000 (SR/Day)

Uploading and surveying using GPS devices and map production	Global Positioning System (GPS) is a major breakthrough in the field of employing modern technology to serve humanity in general and the general public in the engineering sector in particular. In this sense, the idea of training programs on the system came to the knowledge of the user or the bodies on some of the enrichment information that helps them to understand modern technologies. After the course is completed, participants will be able to familiarize themselves with the Global Positioning System (GPS) using a GPS device and transmitting information between the GPS and the computer. Use of mapping software. Practical application to these technologies	**Dr.Ismail El-khrachy**	-Engineers, technicians, specialists in the works of nature and the Office for the production of digital maps and the establishment of constants ground . -Professionals and technicians in government institutions, NGO staff, professors, researchers and technicians in universities and scientific research centers, graduate students in all disciplines in natural resources	2	4	**Worker in:-** -General Directorate of Civil Defense -Ministry of Transport and Road Engineers -Ministry of Municipal and Rural Affairs Ministry of Environment, Water and Agriculture	1.Bowrpoint 2. Large sheets. 3. Large leaf holder. 4. Flomster pens 5.Technician and labor for transporting the	4000 (SR/Day)
Surveying Cycle using Total Stations	Training the participants on the concepts of the devices of the stations Total Monitoring and describes in detail the meaning	**Dr.Ismail El-khrachy**	-Engineers, technicians, specialists in the works of nature	2	4	**Worker in:-** -General Directorate of	1.Bowerpoint 2. Large sheets 3. Large leaf	4000 (SR/Day)

	of this system and its components and how to use it also addresses the most important sources of errors in this system and methods of treatment. Studying the different parts of the Total Station. Studying the different types of the Total Station. Study and explain the observations of distances and angles using the device. Using the Total Station to measure distances and angles electronically. Studying the various applications and examples of the calculations of the device practical application on these technologies		and the Office for the production of digital maps and the establishment of constants ground . -Professionals and technicians in government institutions, NGO staff, professors, researchers and technicians in universities and scientific research centers, graduate students in all disciplines in natural resources			Civil Defense -Ministry of Transport and Road Engineers -Ministry of Municipal and Rural Affairs Ministry of Environment, Water and Agriculture	holder. 4. Flomster pens 5. Technician and labor for transporting the surveying apparatuses	

Introduction to Geographic Information System and Remote Sensing	Due to the great development in the field of computer and GIS, and the importance of these systems in the analysis of spatial and descriptive data and their integration with the GPS system, the use of these techniques is necessary in most studies and projects vital in various disciplines. The objectives of this course include: 1. Definition of GIS and its applications. 2. The definition of remote sensing and its integration with GIS. 3. Dealing with tables and	**Dr.Ismail El-khrachy**	-Engineers, technicians, specialists in the works of nature and the Office for the production of digital maps and the establishment of constants ground . -Professionals and technicians in government institutions, NGO staff, professors, researchers and technicians in universities and scientific research centers, graduate students in all disciplines in natural resources	2	4	**Worker in:-** -General Directorate of Civil Defense -Ministry of Transport and Road Engineers -Ministry of Municipal and Rural Affairs Ministry of Environment, Water and Agriculture	1- GIS Software 2.Bwerpoint 3. Large sheets. 4. Large leaf holder. 5. Flomster pens 6. Technician and labor for transporting the surveying apparatuses	4000 (SR/Day)

	external databases.							

Methods of Inventory of Community Contributions through the Faculty of Engineering - Civil Engineering Department 1438/1439

First: scientific research			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			
3			

Second: Training Courses			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			

3			

Third: Scientific Seminars			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			
3			

Fourth: Workshops			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			
3			

Fifth: Conferences			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			

3			

Sixth: Seventh: bulletins and manuals			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			
3			

Seventh: Agreements			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			
2			
3			

Eighth: Consulting			
No	**Community Contribution**	**The beneficiary**	**The number of beneficiaries**
1			

2			
3			