

The operational Plan of College of Engineering

Vice-Deanship of Scientific

Second Semester 2015\2016- Second Semester 2016-17

Goal 6: Upgrading the quality value of scientific research and innovation regarding development priorities.

Sub-Goal (1): Improvement of scientific research quality and quantity

N	Initiatives	Activities	Implementation Period		Performance Indicator	Responsibility		Achievement		Remarks
			From	to		Basic	Support	Target	Actual	
1	Encourage Faculty to conduct Productive Research	Encouraging faculty to submit quality research works Listing out the faculty wise publications during the past years Identifying the faculty research interests for research projects. Distribution of funding to the department and the faculty.	August 2016	July 2017	Number of publications in reviewed scientific journals in the past year to the overall number of full-time faculty members Percentage full-time faculty members that published at least one paper in ISI journals past year	Faculty Research committee	Vice Dean(Research)			Research Committee to provide ISI list of Journals to all faculty

Sub-Goal (2): Discovering and nurturing talented and support innovation and patents

N	Initiatives	Activities	Implementation Period		Performance Indicator	Responsibility		Achievement		Remarks
			From	to		Basic	Support	Target	Actual	
1	To identify the existing potential innovative research works for submission of patents	Framing committee to assess existing Models, Devices, Equipment's etc., for identification of potentiality for consideration of innovative patents Facilitating the existing potential ideas, models, devices and communicating to organization where patents are granted.	August 2016	July 2017	Patents Rate	Faculty	Vice Dean(Research)			
2	Providing guidance and support for innovative and patents submission	Showing some patented innovative patents for students	August 2016	July 2017		Research committee	Vice Dean(Research)			

Sub-Goal (3): Directing the scientific research by development priorities and environmental researchers.

N	Initiatives	Activities	Implementation Period		Performance Indicator	Responsibility		Achievement		Remarks
			From	to		Basic	Support	Target	Actual	
1	To create awareness on research related to environment	Identify some thrust areas of in related to Environment research	August 2016	July 2017	The number of joint research projects with community organizations	Research committee	Vice Dean (Research)			
2	Environment friendly Senior design projects	Evaluation of senior design projects by research committee in related to environment	August 2016	July 2017	Number of published papers in ISI Journals that contribute to environmental concerns	Faculty	Research committee			

Sub-Goal (4). Reviewing of the scientific research and publication and enhancing its ethics

N	Initiatives	Activities	Implementation Period		Performance Indicator	Responsibility		Achievement		Remarks
			From	to		Basic	Support	Target	Actual	
1	Enhancing ethics in research publications.	Comparing specialization of each faculty and relate their published papers	August 2016	December 2016	Level of satisfaction of faculty members about transparency and fairness of scientific research practice	Research Committee	Vice Dean (Research)			
		Providing ethical guidelines of various highly reputed journals to all faculty	August 2016	December 2016		Research Committee	Vice Dean (Research)			
			August 2016	December 2016		Journal Editorial Committee				

Sub-Goal (5): Improvement of research centers and chairs in the university

N	Initiatives	Activities	Implementation Period		Performance Indicator	Responsibility		Achievement		Remarks
			From	to		Basic	Support	Target	Actual	
1	Identifying Potential chairs for various research areas	Survey the potential chairs in the existing universities in the Kingdom	August 2016	July 2017	Number of scientific chairs	Research Committee	Vice Dean (Research)			
		Improving the level of existing journal	August 2016	July 2017	Number of college scientific journals	Research Committee	Vice Dean (Research)			
		Taking the suggestions and recommendations from the Journal editorial committee how to improve the existing journal	August 2016	July 2017		Research Committee	Vice Dean (Research)			

Sub-Goal (6): The diversity of scientific research sources

N	Initiatives	Activities	Implementation Period		Performance Indicator	Responsibility		Achievement		Remarks
			From	to		Basic	Support	Target	Actual	
1	Comparison of funded projects to the total number submitted proposal	Collection of information from University	August 2016	December 2016	Number of funded project internally comparing to the total number of scientific proposed projects	Research Committee				

Department	Year	Author (s)	Paper
Basic Engineering Sciences Department	1	2016	Mohammad Kashif Uddin
			Meraj Alam Khan, Mohammed Kashif Uddin, Rani Bushra, Anees Ahmad, Syed Ashfaq Nabi
	2	2015	Rifaqat Ali Khan Rao, Shaista Ikram, Mohammad Kashif Uddin
			Abid Hussanan, Mohd Zuki Salleh, Ilyas Khan, Sharidan Shafie
	3	2015	MA Imran, I Khan, M Ahmad, NA Shah, M Nazar
			Ahmad Qushairi
	4	2016	Mohamad, Ilyas Khan, Zulhibri Ismail, Sharidan Shafie
			Imran Ullah, Ilyas Khan, Sharidan Shafie
	5	2017	Zeeshan Khan, Saeed Islam, Rehan Ali Shah, Ilyas Khan

A review on the adsorption of heavy metals by clay minerals, with special focus on the past decade, *Chemical Engineering Journal* 308 (2017) 438–462

Synthesis and characterization of polyaniline Zr(IV) molybdophosphate for the adsorption of phenol from aqueous solution, *Reaction Kinetics, Mechanisms and Catalysis* 113 (2014) 499–517

Removal of Cr(VI) from aqueous solution on seeds of *Artemisia absinthium* (novel plant material), *Desalination and Water Treatment* 54 (2015) 3358–3371

Convection heat transfer in micropolar nanofluids with oxide nanoparticles in water, kerosene and engine oil, *Journal of Molecular Liquids*, 2016, <http://dx.doi.org/10.1016/j.molliq.2016.12.040>

Heat and mass transport of differential type fluid with non-integer order time-fractional Caputo derivatives, *Journal of Molecular Liquids*, 229, (2017), 67–75.

Exact solutions for unsteady free convection flow over an oscillating plate due to non-coaxial rotation, *SpringerPlus*, 5, (2016), 2090.

MHD Natural Convection Flow of Casson Nanofluid over Nonlinearly Stretching Sheet Through Porous Medium with Chemical Reaction and Thermal Radiation, *Nanoscale Research Letters*, 11, (2016), 527.

Flow and heat transfer of two immiscible fluids in double-layer optical fiber coating, *Journal of Coatings Technology and Research*, 13, (2016), 1055-1063.

- Unsteady MHD Mixed Convection Slip Flow of Casson Fluid over Nonlinearly Stretching Sheet Embedded in a Porous Medium with Chemical Reaction, Thermal Radiation, Heat Generation/Absorption and Convective Boundary Conditions, *PloS one*, 11, (2016), e0165348.
- 5 2016 Imran Ullah, Krishnendu Bhattacharyya, Sharidan Shafie, Ilyas Khan
Nor Athirah Mohd Zin · Ilyas Khan · Sharidan Shafie
Farhad Ali, Muhammad Saqib, Ilyas Khan,
7 2016 Nadeem Ahmad Sheikh
Farhad Ali, Syed Aftab Alam Jan, Ilyas Khan, Madeha Gohar,
8 2016 Nadeem Ahmad Sheikh
Madeeha Gohar and Ilyas Khan, Farhad Ali
9 2016 Abid Hussanan, Mohd Zuki Salleh, Ilyas Khan, Razman Mat Tahar
10 2016 Asma Khalid · Ilyas Khan · Sharidan Shafie
11 2016 Nehad Ali Shah, Ilyas Khan
12 2016 Ilyas Khan, Nehad Ali Shah, Dumitru Vieru
13 2016 Ilyas Khan, Farhad Ali, Nehad Ali Shah
14 2016
- The impact silver nanoparticles on MHD free convection flow of Jeffrey fluid over an oscillating vertical plate embedded in a porous medium, *Journal of Molecular Liquids*, 222, (2016), 138–150.
- Application of Caputo-Fabrizio derivatives to MHD free convection flow of generalized Walters'-B fluid model, *The European Physical Journal Plus*, 31, (2016), 377.
- Solutions with special functions for time fractional free convection flow of Brinkman-type fluid, *The European Physical Journal Plus*, 131, (2016), 310.
- MHD flow of water-based Brinkman type nanofluid over a vertical plate embedded in a porous medium with variable surface velocity, temperature and concentration, *Journal of Molecular Liquids*, 223, (2016), 412–419
- Heat and mass transfer in a micropolar fluid with Newtonian heating: an exact analysis, *Neural Computing and Applications*, doi:10.1007/s00521-016-2516-0.
- Heat transfer in ferrofluid with cylindrical shape nanoparticles past a vertical plate with ramped wall temperature embedded in a porous medium, *Journal of Molecular Liquids*, 221, (2016), 1175–1183.
- Heat transfer analysis in a second grade fluid over and oscillating vertical plate using fractional Caputo–Fabrizio derivatives, *The European Physical Journal C*, 76, (2016), 1-11.
- Unsteady flow of generalized Casson fluid with fractional derivative due to an infinite plate, *The European Physical Journal Plus*, 131, (2016), 1-12.
- Interaction of magnetic field with heat and mass transfer in free convection flow of a Walters'-B fluid, *The European Physical Journal Plus*, 131, (2016), 1-15

- 15 2016 Nor Athirah Mohd Zin, Ilyas Khan, Sharidan Shafie
Influence of Thermal Radiation on Unsteady MHD Free Convection Flow of Jeffrey Fluid over a Vertical Plate with Ramped Wall Temperature, *Mathematical Problems in Engineering*, 2016, (2016), 1-12.
Heat transfer analysis in a second grade fluid over and oscillating vertical plate using fractional Caputo–Fabrizio derivatives, *The European physical journal C*, 76, (2016), 362.
- 16 2016 Ilyas Khan Nehad Ali Shah
Unsteady flow of generalized Casson fluid with fractional derivative due to an infinite plate, *THE EUROPEAN PHYSICAL JOURNAL PLUS*, 2016, (2016), 131.
- 17 2016 Nehad Ali Shah and Dumitru Vieru Ilyas Khan
Impacts of gold nanoparticles on MHD mixed convection Poiseuille flow of nanofluid passing through a porous medium in the presence of thermal radiation, thermal diffusion and chemical reaction, *Neural Computing and Applications*, 2016, (2016), 1-9
- 18 2016 Zuki Salleh
Analytical solution for suction and injection flow of a viscoplastic Casson fluid past a stretching surface in the presence of viscous dissipation, *Neural Computing and Applications*, 2016, (2016), 1-9.
- 20 2016 Sharidan Shafie
A note on entropy generation in MHD flow over a vertical plate embedded in a porous medium with arbitrary shear stress and ramped temperature, *Journal of Porous Media*,
- 21 2016 Arshad Khan · Ilyas Khan · Farhad Ali
A modern approach of Caputo–Fabrizio time-fractional derivative to MHD free convection flow of generalized second-grade fluid in a porous medium, *Neural Comput & Application DOI 10.1007/s00521-016-2815-5*.
- 22 2016 Farhad Ali, Ilyas Khan, Muhammad Saqib M Afriidi , M Qasim , Ilyas Khan, S Sharidan and Ali Saleh
Entropy Generation in Magnetohydrodynamic Mixed Convection Flow over an Inclined Stretching Sheet, *Entropy* 2017, 19, 10; doi:10.3390/e19010010
- 23 2017 Alshomrani
MHD Natural Convection Flow of Casson Nanofluid over Nonlinearly Stretching Sheet Through Porous Medium with Chemical Reaction and Thermal Radiation, *Nanoscale Research Letters*, 11, (2016), 527.
- 24 2016 Imran Ullah, Ilyas Khan and Sharidan Shafie
Magnetic field effect on blood flow of Casson fluid in the axisymmetric cylindrical tube: A fractional model. *Journal of Magnetism and Magnetic Materials*.
- 25 2016 Farhad Ali, NA Sheikh, Ilyas Khan, M. Saqib

- MHD flow of water-based Brinkman type nanofluid over a vertical plate embedded in a porous medium with variable surface velocity, temperature and concentration. *Journal of Molecular Liquids*, 223, 412-419
- 26 2016 Ali, F., Gohar, M., & Ilyas Khan
Solutions with special functions for time fractional free convection flow of Brinkman-type fluid. *The European Physical Journal Plus*, 131(9), 310,2016.
- 27 2016 Ali, F., Jan, S. A. A., Ilyas Khan., Gohar, M., & Sheikh, N. A.
Application of Caputo-Fabrizio Derivatives to MHD Free Convection Flow of Generalized Walters'-B Fluid Model, " *The European Physical Journal Plus*131, no. 10 (2016): 377
- 28 2016 F. Ali, M. Saqib , Ilyas Khan, N. A. Sheikh
ROTATING MHD FLOW OF A GENERALIZED BURGERS'FLUID OVER AN OSCILLATING PLATE EMBEDDED IN A POROUS MEDIUM, *Thermal Science*, 19, (2015), S183-S190.
- 29 2015 Ilyas Khan, Sharidan Shafie
Energy Transfer in Mixed Convection MHD Flow of Nanofluid Containing Different Shapes of Nanoparticles in a Channel Filled with Saturated Porous Medium, *Nanoscale research letters*, 10, (2015), 1.
- 30 2015 Gul Aaiza, Ilyas Khan, Sharidan Shafie
Conjugate transfer of heat and mass in unsteady flow of a micropolar fluid with wall couple stress, *AIP Advances*, 5, (2015), 127125.
- 31 2015 Asma Khalid, Ilyas Khan, Arshad Khan, Sharidan Shafie
Muhammad Altaf Khan, Qaisar Badshah, Saeed Islam, Ilyas Khan, Sharidan Shafie, Sher Afzal Khan
Global dynamics of SEIRS epidemic model with non-linear generalized incidences and preventive vaccination, *Advances in Difference Equations*, 2015, (2015), 1-18.
- 32 2015 Ilyas Khan, Farhad Ali, Norzieha Mustapha, Sharidan Shafie
Closed-form solutions for accelerated MHD flow of a generalized Burgers' fluid in a rotating frame and porous medium, *Boundary Value Problems*, 2015, (2015), 1-17.
- 33 2015 Aaiza Gul, Ilyas Khan, Sharidan Shafie, Asma Khalid, Arshad Khan
Heat transfer in MHD mixed convection flow of a ferrofluid along a vertical channel, *PloS one*, 10, (2015), e0141213.
- 34 2015 Abid Hussanan, Salleh Mohd Zuki, Khan Ilyas,
Soret Effects on Unsteady Magneto-hydrodynamic Mixed-convection Heat-and-mass-transfer Flow in a Porous Medium with Newtonian Heating,

- Mat Tahar Razman, Ismail Zulkhibri
Taza Gul, Saeed Islam, Rehan Ali Shah, Asma Khalid, Ilyas Khan, Sharidan Shafie
36 2015 Hakeem Ullah, Saeed Islam, Ilyas Khan, Sharidan Shafie, Mehreen Fiza
37 2015 Asma Khalid, Ilyas Khan, Sharidan Shafie
38 2015 H Ullah, S Islam, LCC Dennis, TN
Abdelhameed, I Khan, M Fiza
39 2015 Hussanan Abid, Salleh Mohd Zuki, Khan Ilyas, Mat Tahar Razman
40 2015
- Maejo International Journal of Science and Technology, 9, (2015), 224-245.
- Unsteady MHD thin film flow of an Oldroyd-B fluid over an Oscillating inclined belt, PloS one, 10, (2015), e0126698.
- Formulation and Application of Optimal Homotopy Asymptotic Method to Coupled Differential-Difference Equations, PloS one, 10, (2015), e0120127.
- Exact solutions for free convection flow of nanofluids with ramped wall temperature, The European Physical Journal Plus, 130, (2015), 1-14.
- Approximate Solution of Two-Dimensional Nonlinear Wave Equation by Optimal Homotopy Asymptotic Method, Mathematical Problems in Engineering, 2015, (2015).
- Unsteady Free Convection Flow of a Micropolar Fluid With Newtonian Heating: Closed Form Solution, Thermal Science, 2015, (2015), 1-16.

Civil

Engineering Department

- 1 2016 Amjad Khabaz
Baig, Z. I., Saleh, H. A., and Husain, A
2 2016 68
- Monitoring of Impact of Hooked Ends on Mechanical Behavior of Steel Fiber in Concrete", Construction and Building Materials, Volume 113, 2016, pp 857-863
Punching of Slab-Column Connections Strengthened using External Steel Shear Bolts", Magazine of Concrete Research, Volume 68 (2), 2016, pp 55-68

Electrical Engineering Department

Efficient reluctance network formulation for modeling design and optimization of linear hybrid motor, IEEE Transactions on Magnetics, Institute of Electrical and Electronics Engineer

1 2016 El Manaa Barhoumi
 Combined emission economic dispatch of power system including solar photo voltaic generation, Energy Conversion and Management 92 . January 2014

2 2014 A. Awan, N. Khan
 Exponential spline perfect reconstruction, decomposition and reconstruction with applications in compression and denoising, Signal, Image and Video Processing, 2014

3 2014 M. F Fahmy, G Fahmy

Mechanical Engineering Department

T. M. EL-Bagory ,and
 1 2016 Younan, M.A
 Crack Growth Behavior of Pipes Made from Polyvinyl Chloride Pipe Material,Journal of Pressure Vessel and Technology,Accepted Economic Production Quantity in Batch Manufacturing with Imperfect Quality, Imperfect Inspection, and Destructive and Non-destructive Acceptance Sampling in a Two-Tier Market, Computers and Industrial Engineering, Vol. 93 pp 275–285.

Muhammad Al-
 2 2016 Salamah
 Heat and mass transfer in nanofluid thin filmover an unsteady stretching sheet using Buongiorno model, The European Physical Journal Plus, Vol.131(1), pp. 1-11, 2016.

M. Qasim, Z.H. Khan,
 3 2016 R.J. Lopez, W.A. Khan,
 A. Jabbarnia, W. S. Khan , A.
 Tuning the Ionic and Dielectric Properties of Electrospun Nanocomposite Fibers for Supercapacitor Applications Vol. 6, Issue 6, (Part -1) pp.65-73

Ghazinezami1 and R.
 4 2016 Asmatulu,
 Electrokinetic effects on pressure driven flow of viscoelastic fluids in nanofluidic channels with Navier condition,Journal of Molecular Liquids, Vol.PP 472-480.

Meisam Habibi Matin,
 5 2016 Waqar A. Khan,
 Non-aligned MHD stagnation point flow of variable viscosity nanofluids past a stretching sheet with radiative heat, International Journal of Heat and MassTransfer, Vol.96, Pages 525-534.

W.A. Khan, O.D.
 6 2016 Makinde, Z.H. Khan,

- M.A. Al-Bukhaiti, A. Abouel-Kasem, K.M. Emara and S.M. Ahmed, 7 2016 Particle Shape and Size Effects on Slurry Erosion of AISI 5117 Steels Journal of Tribology, Vol. 138
- Muhammad Al-Salamah, 8 2015 Constrained Binary Artificial Bee Colony to Minimize the Makespan for Single Machine Batch Processing with Non-Identical Job Sizes Applied Soft Computing, Vol. 29, pp 379–385
- Waseem S. Khan, 9 2015 Thermal, Electrical and Surface Hydrophobic Properties of Electrospun Polyacrylonitrile Nanofibers for Structural Health Monitoring, Journal of Material, Vol. 8, No. 10, pp 7017-7031
- Alklaibi AM, 10 2015 Experimental and theoretical investigation of internal two-stage evaporative cooler. Energy Convers Management, Vol. 95:140–8. Evaluation of Fracture Toughness Behavior of Polyethylene Pipe Materials, Journal of Pressure Vessel and, Technology, December, 2015 ,137, 6
- T. M. EL-Bagory, H Sallam and M. Younan S.A. Musmar, A.T. Al-Halhouli, I. Tlili and S. Büttgenbach, 11 2015 Performance Analysis of a New Water Based Micro-Cooling System Experimental Heat Transfer
- K. Ramadan and I. Tlili A, Saleh, B, Abouel-Kasem, A. and Ahmed, S. M, 12 2015 Numerical Study of the Extended Graetz Problem in a Microchannel with Constant Wall Heat Flux: Shear Work Effects on Heat Transfer, Journal of Mechanics, 1-11
- Iskander Tlili, 13 2015 Effect of Surface Properties Modification on Slurry Erosion-Corrosion Resistance of AISI 5117 Steel, Journal of tribology, 137 pp. 1-8
- Iskander Tlili, 14 2015 Renewable Energy in Saudi Arabia: Current Status and Future Potentials Environment, Development and Sustainability, Vol. 17, No. 4, 859-886

- 16 2014 T. M. EL-Bagory, M. Younan, H. Sallam , T. M. EL-Bagory, H. Sallam and M. Younan, 2014 T. M. EL-Bagory, M. Younan, H. Sallam and L. A. Latif, 2014 Y. M. Abd-Elrhman, A. Abouel-Kasem, S. M. Ahmed and K.M. Emara 2014 Y. M. Abd-Elrhman, A. Abouel-Kasem, K.M. Emara and S. M. Ahmed 2014 Iskander Tlili and Sa'ed a. Musmar 2015 B. Saleh and S.M. Ahmed 2013 F. A. Alturki, A.Abouel-Kasem and S. M. Ahmed, 2013 S. A. Karrab, M. A. Doheim, Mohamed S. Mohammed and S. M. Ahmed 2012
- Limit Load Determination and Material Characterization of Cracked Polyethylene Miter Pipe Bends, Journal of Pressure Vessel and Technology, 136, 4
- Effect of Strain Rate, Thickness, Welding on the J-R Curve for Polyethylene Pipe Materials, Theoretical and Applied Fracture Mechanics 74, 164–180.
- Effect of Load Angle on Limit Load of Polyethylene Miter Pipe Bends, Journal of Pressure Vessel and Technology, Vol 136, No. 3,
- Stepwise Erosion as a Method for Investigating the Wear Mechanisms at Different Impact angles in Slurry Erosion Journal of Tribology, 136, No. 2
- Effect of Impact Angle on Slurry Erosion Behaviour and Mechanisms of Carburized AISI 5117, Steel Journal of Tribology January, Vol. 136, No. 1
- Thermodynamic Evaluation of a Second Order Simulation for Yoke Ross Stirling Engine, Energy Conversion and Management, 68, 149-160
- Slurry Erosion-Corrosion of Carburized AISI 5117 Steel, Tribology Letters, Vol. 51, No. 1, 135-142
- Characteristics of Cavitation Erosion using Image Processing Techniques, Journal of Tribology, Vol. 135, No. 1.
- Investigation of the Ring Area Formed Around Cavitation Erosion Pits on the Surface of Steel Tribology Letters, Vol. 453, 437-444

- 26 2012 A. Abouel-Kasem and S.M. Ahmed Bubble Structures Between Two Walls in Ultrasonic Cavitation Erosion, Journal of Tribology, Vol. 134, No. 2
- 27 2011 Mohammed AL Salamah, F. A. Alturki, A.Abouel-Kasem and S. M. Ahmed Optimum Process Parameters with Imperfect Infinite Reworks The International Journal of Advanced Manufacturing Technology, Vol.3, No. 9-12 pp 1239-1246.
- 28 2011 A.Abouel-Kasem and S. M. Ahmed Fractal Analysis of Cavitation Eroded Surface in Dilute Emulsions, Journal of Tribology, Vol. 133 pp 1334

Research units of Civil Engineering		
	Unit title	Brief description
CEU1	Structural Engineering	
CEU2	Water and Environmental Engineering	
CEU3	Surveying Engineering	
Research units of Electrical Engineering		
	Unit title	Brief description
EEU1	Power & Machine Engineering	
EEU2	Communications & Electronics Engineering	
EEU3	Control & Systems Engineering	
Research units of Mechanical and Industrial Engineering		
	Unit title	Brief description
MEU1	Thermal power Engineering	<ol style="list-style-type: none"> 1. Fluid flow and heat transfer characteristics in micro channels and mini channels 2. Enhancing heat transfer through heat exchangers 3. Analytical study of performance of thermal power plant, gas turbine power plant and combined cycle power plant. 4. Analytical study of refrigeration cycles
MEU2	Industrial Engineering	<ol style="list-style-type: none"> 1. Simulation and Modelling of Industrial Engineering systems 2. Meta-heuristics and Multi Objective Optimization 3. Buyer Supplier Linkages in Supply Chains
MEU3	Design and Production	<ol style="list-style-type: none"> 1. Rapid Prototyping and Campsite Materials 2. Fracture Mechanics of Materials 3. Nano Composites and Materials

SENIOR DESIGN PROJECT (MIE-498/ MIE-499) EVALUATION

(By Supervisor)

Semester:

Project Title:

Student Name: ID No.:

KPI No.	KPI Description	Marks	
		Maximum	Obtained
1	Apply mathematical and scientific principles to formulate models and systems relevant to civil engineering	2	
3	Translates academic theory into civil engineering applications	2	
6	Data documentation	3	
8	The analysis and interpretations of data using appropriate theory	2	
10	Using computer engineering tools	2	
12	Applying engineering and/or scientific principles correctly to design practical processes	2	
13	Team Participation (<i>Cooperation</i>)	4	
15	Role in a group	4	
18	Predict and defend problem outcomes	2	
19	The uses of appropriate resources needed to solve problems	2	
23	Personal responsibility for his/her actions	4	
24	Punctual, professional, and collegial	3	
25	The organization of the written materials	2	
26	The Use of graphs, tables, and diagrams	3	
27	Grammar and spelling	3	
30	Historical aspects of civil engineering solutions	2	
31	Technical periodicals	3	
33	Assignment completion	2	
35	Capability to think for one's self	2	
37	Knowledge of current events in the civil engineering discipline	3	
39	Ability to discuss major political issues at national, state and local levels	2	
40	Development and implementation of logical experimental procedures	3	
43	Seeking information	3	
	TOTAL	60	

Supervisor Name:

Approved by

Signature:

HoD Signature:

Date:

Date:

SENIOR DESIGN PROJECT (MIE-498) EVALUATION

Semester:

Project Title:

Student Name: ID No.:

Evaluation Criteria	SLO	KPI No.	Marks			
			Out of	Examiner-1	Examiner-2	Average
The degree of compatibility with the predefined sequence and specification of writing the project	g	25	4			
Literature Survey	h	30	4			
Problem Presentation	c	11	4			
Scientific criteria used to solve the project objectives	c	12	4			
Student Scientific Character	f	23	4			
Student Manipulation with Questions	g	28	4			
Student Engineering thinking & Practical Implementation	a	1	6			
Answering the Questions	e	18	5			
Ability to Extract Solutions	i	35	5			
TOTAL			40			

Average Marks (40%)	
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Examiner-1

Examiner-2

Name:

Name:

Signature:

Signature:

Supervisor Name:	Supervisor's Evaluation (60%)	
Signature:		

Total Marks (100%)	Number	Words

Moderation Committee

Coordinator Signature:

Date:

Environmental related paper's list

S.No.	Year	Author(s)	Paper
1	2016	Mohammad Kashif Uddin	A review on the adsorption of heavy metals by clay minerals, with special focus on the past decade, <i>Chemical Engineering Journal</i> 308 (2017) 438–462
2	2015	Meraj Alam Khan, Mohammed Kashif Uddin, Rani Bushra, Anees Ahmad, Syed Ashfaq Nabi	Synthesis and characterization of polyaniline Zr(IV) molybdophosphate for the adsorption of phenol from aqueous solution, <i>Reaction Kinetics, Mechanisms and Catalysis</i> 113 (2014) 499–517
3	2015	Rifaqat Ali Khan Rao, Shaista Ikram, Mohammad Kashif Uddin	Removal of Cr(VI) from aqueous solution on seeds of <i>Artimisia absinthium</i> (novel plant material), <i>Desalination and Water Treatment</i> 54 (2015) 3358–3371
4	2014	A. Awan, N. Khan	Combined emission economic dispatch of power system including solar photo voltaic generation, <i>Energy Conversion and Management</i> 92 · January 2014

Ethical Guidelines to Submit Research Papers to Journals

- Authors should be limited to those who belongs to the similar or interdisciplinary research area and make substantial contribution to the submitted work, else the names of the persons who provide little or partial contribution should be added in the acknowledge section.
- Literal copying (reproducing a work word for word), substantial copying (this can include research materials, processes, tables), paraphrasing (reproducing someone else's ideas), and text recycling (reproducing portions of an author's own work in a paper).
- Simultaneous submission of research articles to the journals cannot be permitted.
- Source of funding for research outcome should always be disclosed in research publication.
- Name of the software not to mention in the submitted work for which University does not have appropriate license validity.