Area 2: Curriculum Design and Delivery-Major Subjects

1.	Name of Course					TQM for Managers					
2.	Course Code				BMGT4043						
3.	Name(s) of academic staff										
4.	Name(s) of academic staff Rationale for the inclusion of the course/module in the programme					Quality is gaining in importance in all areas of modern life. Consumers require "products" where they are sure of getting top-quality, value-for-money services. The further reason for systematic quality management in the modern industry is widely documented: growing competition, lack of willingness to provide a service, growing loss of individuality by standardization of products, adverse price-performance ration etc. Total Quality is a description of the culture, attitude, and organization of a company that aims to provide, and continue to provide, its customers with products and services that satisfy their needs. The culture requires quality in all aspects of the company's operations, with things being done right first time, and defects and waste eradicated from operations.					
5.	Semester and Year o	ffered	l		1/2						
6.	Total Student Learning Time (SLT)	Fac	e to F	ace		Total Guided and Independent Learning					
	L = Lecture T = Tutorial P = Practical O = Others L T P 28 14 0				0	Guided = 42 Independent = 84 Total = 126					
7.	Credit Value				3						
8.	Prerequisite (if any)				Management						
9.	Prerequisite (if any) Management Objectives: To promote an understanding of The fundamentals of TQM and its historical development, The integration of quality control and management tools, the Six Sigma philosophy, Lean manufacturing and service concepts, Quality Function Deployment, Benchmarking and Statistical Process Control. The role of Supply Chain Management (SCM) in quality improvement will be reviewed.										

Area 2: Curriculum Design and Delivery-Major Subjects

(4) TQM for Managers-BMGT4043

10. Learning outcomes:

At the end of this subject, students should be able to:

- Understand the concepts quality and total quality management as well as of their importance
- Familiar with the numerous leading contributors to the field
- Know the various international and national quality systems and standards
- Understand the importance of quality from the strategic context
- Apply the various quality management methods and tools via in-class activities

11. Transferable Skills:

- To enhance the student's ability in applying demand analysis and segmentation techniques in quality management.
- To develop the student's ability for managing the firm's marketing efforts directed to the total quality management
- Provide a framework for understanding TQM strategy development and, thereby, provide the student with decision-making capabilities in the field.

12. Teaching-learning and assessment strategy

A variety of teaching and learning strategies are used throughout the course, including:

- Lecture sessions
- Tutorial sessions
- Case Studies
- Student-Lecturer discussion
- Collaborative and co-operative learning
- Workshops and Training Seminars
- Independent study

Assessment strategies include the following:

- Ongoing quizzes
- Midterm tests
- Performance Assessment (Participation, project, Assigned exercises)
- Case Presentations

13. Synopsis:

This course focuses on the essence, principles, and practices of total quality management (TQM). Some of the ideas and topics that are covered are: process improvement; process orientation; service quality; human resources; customer satisfaction programs; quality function deployment; process control and capability; role of inspection; economics of quality; productivity measurement; learning and organizational performance measures;

14. | Mode of Delivery: Face to Face

- · Lecture sessions
- · Tutorial sessions

Area 2: Curriculum Design and Delivery-Major Subjects

15.	Assessm							- 11							
	The asse			is cours	se will be			ollowing							
	Coursework 50%				0%										
	Quizzes				10										
		ssignme oject	ents			10° 10°									
	Mi	id-Sem		Exam		20	%								
	Final Exa	minatio	n			50	%.								
	Total						0%								
16.							amme Le apped to				ains	usino	aas	cale of	one
	to five w	here (d		ing the		levant/ı	related ar	nd five b	eing the	mos			t/ rel	ated).	1
	A'			A2 4		A3 4		A4 4		A5 3			A6 3		
17.									one						
	LO1				_	010 LO			LO12						
	4	4	2	2	4	3	2	2	2		2	4	ļ	4	
18.	Content of	outline o	of the	course/	module	and the	SLT pe	r topic							
												S	SLT 		
	WEEK	Detail	ls								L	Т	Indep.	Total	
	WEEK 1	Intro	Dim Qua Ana Bas Hist Lea Qua Qua Stra Den	nition o ensions lity Plai lysis Te ic conce orical R dership lity Cou lity Sta tegic P ning Ph	epts of T eview, F – Conce	lity, uality c s for Q otal Qu Principle epts, R	uality Co uality Mar es of TQI ole of Se	nagemer M,		nt,	2	1	6	9	

Area 2: Curriculum Design and Delivery-Major Subjects

	TOM Principles				
WEEK 2	 TQM Principles Customer satisfaction – Customer Perception of Quality Customer Complaints Service Quality Customer Retention Employee Involvement – Motivation, Empowerment Teams, Recognition and Reward, Performance Appraisal, Benefits Continuous Process Improvement – Juran Trilogy, PDSA Cycle, 5S, Kaizen Supplier Partnership – Partnering, sourcing Supplier Selection, Supplier Rating Relationship Development Performance Measures – Basic Concepts Strategy – Performance Measure. 	2	1	6	Ø
WEEK 3	 Statistical Process Control (SPC) The seven tools of quality Statistical Fundamentals – Measures of central Tendency and Dispersion Population and Sample Normal Curve Control Charts for variables and attributes Process capability, Concept of six sigma, New seven Management tools. 	2	1	6	9
WEEK 4	 TQM TOOLS Benchmarking – Reasons to Benchmark Benchmarking Process Quality Function Deployment (QFD) – House of Quality QFD Process, Benefits Taguchi Quality Loss Function Total Productive Maintenance (TPM) – Concept, Improvement Needs, FMEA – Stages of FMEA 	2	1	6	9

Area 2: Curriculum Design and Delivery-Major Subjects

WEEK 5	 Organization Responsibilities Quality Operations. Quality Uniformity. Compliance Audits. Six Sigma Introduction. Procedure. Quality Problems. TQPC Management Operations. Preventive Action 	2	1	6	9
WEEK 6	 Establishing the Limits for Quality Control Preproduction Product Analysis. Taguchi Methods. Prototyping. Mold Limits. Material Selection. Estimating Part Cycle Time. Injection Molding Machine Selection. Machine Hourly Rate. Machine Setup Charges. Calculating Product Manufacturing Cost. Material Supplier Limits. Establishing Manufacturing Limits. Auxiliary Equipment. In-Process Inspection. Establishing Total Quality Process Control. Acceptable Quality Limits. 	2	1	6	9
WEEK 7	 Material Selection and Handling Product Certification. Material Specification. Product Variable Specification. Incoming Material Testing. Material Testing Equipment. Material Safety Data Sheets. Record Accuracy. Bar Coding: An Aid in Total Quality Process Control. Regrind Control. Material Handling and Storage. Regrind Usage. Processing Aids. 	2	1	6	9

Area 2: Curriculum Design and Delivery-Major Subjects

WEEK 8	 Quality Systems Need for ISO 9000 and Other Quality Systems ISO 9000:2000 Quality System – Elements, Implementation of Quality System, Documentation Quality Auditing TS 16949, ISO 14000 – Concept, Requirements, and Benefits 	2	1	6	9
WEEK 9	 Quality Improvement Techniques Pareto Diagrams Cause-Effect Diagrams Scatter Diagrams Run Charts Cause and Effect Diagrams 	2	1	6	9
WEEK 10	 Statistical Concepts Definitions Measures of Central Tendency Measure of Dispersion Concepts of Population and Samples Normal Curves 	2	1	6	9
WEEK 11	 Control Charts for Variables Definitions Variation: Common vs. Special Causes Control Chart Techniques X-bar and R chart Correlation X-bar and S charts 	2	1	6	9
WEEK 12	Reliability / Quality Costs	2	1	6	9
WEEK 13	 Control Chart Interpretation and Analysis Using Charts to Pinpoint Problems Process Capability Other Variable Control Charts Individuals and Moving Range Charts Moving Average and Moving Range Charts Charts for Individuals Median and Range Charts 	2	1	6	9

Area 2: Curriculum Design and Delivery-Major Subjects

	WEEK 14	Fundamentals of Probability / Control Charts for Attributes Basic Concepts and Definitions Discrete Probability Distributions Continuous Probability Distributions Definitions Control Charts for Non-conforming Units Control Charts for Counts of Non-conforming Units	2	1	6	9			
		Total	2	1 4	8	12 6			
19.	Main refe	rences supporting the course:							
	Goetsch & Davis. (2010). <i>Quality Management for Organizational Excellence: Introduction to Total Quality,</i> (6 th Edition), Pearson								
	Addition	al references supporting the course:							
	 Amitava Mitra. (2008). Fundamentals of Quality Control and Improvement, (3rd Edition), Wiley James R. Evans, William M. Lindsay. (2008). Managing for Quality and Performance Excellence, (7th Edition), Cengage Learning 								
20.		ditional information I subject materials will be available to the students during the per	iod c	of the	cou	rse			