



GABM

Global Academy of
Business & Management

GABM Global Academy of Business and Management is most renowned online academy offering graduate and designation qualification's, short courses and mini-MBA in 10 management specializations through quality education and management certification around the world.

INDUSTRIAL AND ENGINEERING MANAGEMENT

Programme specification and Study guide



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CONTENTS

Foreword.....	i
About this Guide.....	ii
Welcome	iii
Summary programme details.....	7
Programme Overview.....	09
Rationale.	09
Qualification framework	09
Entry Requirements.....	09
What can I do with this major.....	10
Programme progression.	10
Awards	10
Career Prospects	10
Study programme focus.	11
Who should attend	11
Learning and Training Methods.	11
Assessment Strategy.....	11
Notification of Assignments.....	12
Referencing.	12
Feedback following assessments.	12
Study Support	13
Assessment	13
Academic Performance	14
Course / Module Waiver.....	14
Credit Sharing Policy.....	14
Non Compensable Modules.	14
Curriculum Map.	14
Information about assessment regulations.	14
Particular support for learning.....	14
Referencing points.	14
Programme Aims.	15
Learning Outcomes	15
Knowledge and Understanding and cognitive skills	16
Practical and Professional skills or subject skills.....	16
Programme structure.....	17
Programme Curriculum Map	18
Assessment pattern	19
Module Descriptions	20

FOREWORD

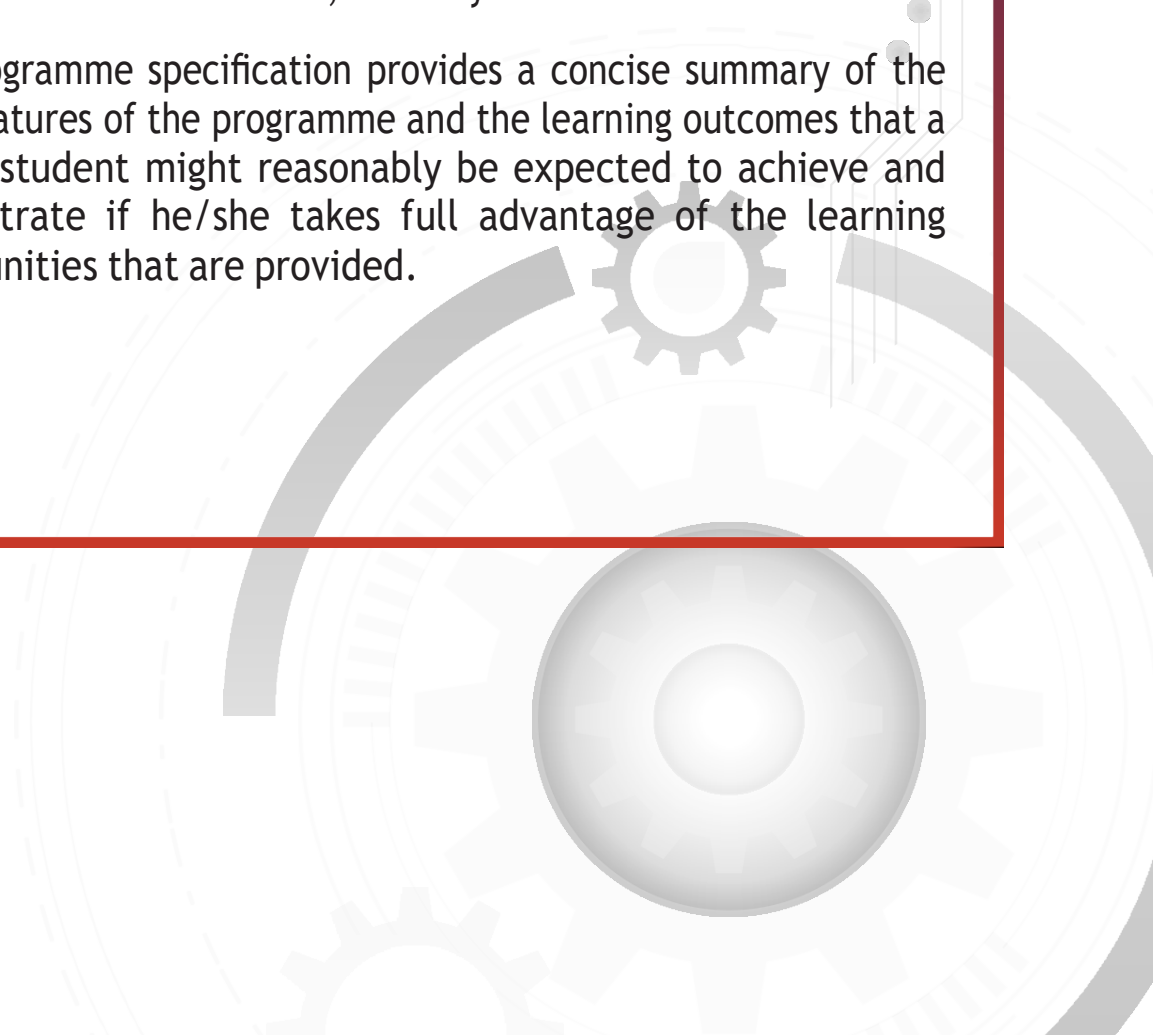
It is not expected that all answers will be found in this text. Unforeseen question will arise and answers will be needed. Students should begin addressing their questions to office of the executive education and professional certification of the academy. In most cases the student's academy officer or director or graduate secretary or associate director will be able to provide the required information. Complex issues may require further advice or action from the academy board or commission.

Please note that in order to develop and improve the course, it may be necessary on occasions to amend or revise the details given in this course guide. We are pleased to hear your views and welcome suggestions for ways of improving the operation of the course.

ABOUT THIS GUIDE

This course guide has been designed to help you plan your course. You are encouraged to read this guide through now. It will be a considerable advantage to you to be familiar from the outset with the various aspects of your study that are described. It may be that the relevance of some of the sections will not be immediately obvious. Keep it somewhere accessible, so that you can refer to it as needed.

This programme specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided.



WELCOME

On behalf of GABM Global Academy of Business and Management Team I would like to extend to you a very warm welcome and wish you every success in your studies at GABM.

The Academy experience and academic success is all about the effort you put into learning and making the most of the wide range of opportunities available to you. We welcome students who are eager to think for themselves to take control of their own learning and who are ready to get involved in developing the skills required in a highly competitive job market.

You will need to demonstrate good time management skills, independent learning, flexibility and discipline in order to achieve a study work-life balance. We believe it is important that you are encouraged to make your own contribution to the effective operation and development of your chosen course. We are, therefore keen to hear your views and would welcome any suggestions that you may have about ways of improving any aspect of your course and / or the student experience here at GABM Global Academy.

I congratulate on securing your place on our GABM Global academy qualifications. I hope you find your time with us demanding, rewarding and enjoyable. The programme has been developed following themes implemented upon various professional training and management development courses.

Our training and education aimed at enhancing the skills of qualified professionals, engineers and managers. Our qualification formalizes this training and education into a full academic qualification, for which there is a strong demand both in India and Overseas.

May I wish you the very best of luck in your training, education and indeed in your career.

PROJECT MANAGEMENT

Summary Programme Details

GRADUATE QUALIFICATION

Title of the qualification award (1)		Graduate certificate in Industrial & engineering management
Credits Points		200
Level of award		5(Refer Global academy qualifications framework for more info)
Entry Requirements		Secondary school / Graduate/ Fresher's
Modules		7 Core
Electives		3 Electives
Fees		Indian Students : 14,999 / - Rs (including GST) International Students : 250 (USD)
Title of the qualification award (2)		Graduate Diploma in Industrial & engineering management
Credits Points		260
Level of award		5 (refer Global academy qualifications framework for more info)
Entry Requirements		Bachelor Degree / Final year students can apply
Modules		10 Core
Electives		3 Electives
Fees		Indian Students : 18,999 / - (including GST) International Students : 300 (USD)

DESIGNATION QUALIFICATIONS

Designation Title		Certified Industrial and engineering Professional (CIEP)
Credit points		360 Points
Level of award		6(refer Global academy qualifications framework for more info)
Entry Requirements		Bachelor degree with Graduate certificate from GABM.
Modules		10 Core and 3 electives with PR
Fees		Indian Students : Rs. 18,999 / - (including GST) International Students : 300 (USD)
Designation Title		Certified Industrial and engineering Manager (CIEM)
Credit points		360 (all Modules core and electives) with PR
Level of award		6(refer Global academy qualifications framework for more info)
Entry Requirements		Bachelor degree with 2 years' experience
Fees		Indian Students : Rs. 24,999 /-(including GST) International Students :350 (USD)
Designation Title		Certified Industrial and engineering Director (CIED)
Credit points		360 (all Modules and electives) with PR
Level of award		7(refer Global academy qualifications framework for more info)
Entry Requirements		Bachelor degree with 5 years' experience
Fees		Indian Students :29,999 / - Rs (including GST) International Students : 400 (USD)

SUMMARY PROGRAMME DETAILS (CONT.)

VALIDATION

Validating Institution	GABM Global Academy of Business and Management
Date of Last Validation	October 2020
Date of next periodic review	October 2023

PROFESSIONAL ACCREDITATION

Accrediting body:	American Management Institute (AMI)
Date of last programme accreditation	October 2022
Date of next periodic review	September 2023
Accrediting body:	International Accreditation organization
Date of last programme accreditation	October 2020
Date of next periodic review	October 2025
Accrediting body:	European accreditation council for online learning
Date of last programme accreditation	October 2022
Date of next periodic review	September 2023
Accrediting body:	United states distance learning association
Date of last programme accreditation	October 2022
Date of next periodic review	September 2023
Accrediting body:	The international association for continuing education and training
Date of last programme accreditation	October 2022
Date of next periodic review	September 2023
Accrediting body:	International accreditation bureau for distance learning
Date of last programme accreditation	September 2022
Date of next periodic review	September 2023

LEARNING MATERIAL APPROVAL

Approving and Reviewing Body	American Management Institute (AMI)
Status	Approved
Approving and Reviewing Body	World certification Institute
Status	Approved
Approving and Reviewing Body	The CPD Certification Service, UK
Status	Approved
Approving and Reviewing Body	CPD Group , UK
Status	Approved
Approving and Reviewing Body	International Board of Certified Trainers (IBCT)Netherlands
Status	Approved

PROGRAMME OVERVIEW

RATIONALE

This course is aimed at individuals who wish to enhance their knowledge of industrial and engineering management. Students can have a variety of undergraduate degree qualifications coming from a mechanical, design, civil or manufacturing engineering background. In addition, it also helps experienced managers supplement their knowledge with educational qualifications.

The programme has a strong focus on the skills required by industrial engineers. As well as developing a wide range of skills set that a competent and highly skilled industrial engineer should have. This skill set includes production and productivity, product design, planning and development, system concept, industrial ownership, supervisory and leadership, engineering economics etc. students will acquire a skill set that is highly sought after by employers.

This programme gives you the skill to adopt changes in an industrial and engineering environment in a responsible and efficient manner, through established concepts in manufacturing, quality and innovation.

QUALIFICATION FRAMEWORK

The Programme maps closely to the Global academy qualifications framework prepared by GABM office of executive education and professional certification.

ENTRY REQUIREMENTS

Entrants to this programme are normally required to have attained the following.

- Applicants should either have at least Secondary school or entry to bachelor degree for Graduate certificate
- Students who have completed bachelor degree / fresher or final year students can apply for Graduate diploma.
- Bachelor degree with one of the graduate certificate from GABM for Professional certificate
- Bachelor degree with 2 years' experience for Managerial certificate.
- Bachelor degree with 5 years' experience for Director Certificate.
- A good honors degree or equivalent in a relevant subject or equivalent industrial and work experience in construction management or other related field.

WHAT CAN I DO WITH THIS MAJOR IN INDUSTRIAL AND ENGINEERING MANAGEMENT

Industrial and engineering management graduates typically find jobs in private or public sector companies or organizations. Fields of activity generally include, planning, technology and operations management, development and innovation and consultancy. Some are also engaged in more interdisciplinary work in the health care, safety and environment area. They often serve as the link between general management tasks and specialists' projects and assignments.

PROGRAMME PROGRESSION

All modules on this Programme are set at Global Academy qualification framework level 6 (Masters level) and there are no co-requisites or prerequisites in the study programme.

Assessments are conducted in accordance with the GABM General and Academic Regulations for Students and the GABM Postgraduate Programme Assessment, Progression and Award Regulations.

AWARDS

- Graduate certificate in Industrial and engineering management
- Graduate Diploma in Industrial and engineering management
- Certified Industrial and engineering Professional (CIEP)
- Certified Industrial and engineering Manager (CIEM)
- Certified Industrial and engineering Director (CIED)

Awards are conferred in accordance with the GABM General and Academic Regulations for Students and the GABM Postgraduate Programme Assessment, Progression and Award Regulations.

CAREER PROSPECTS

Alumni of the industrial and engineering management bachelor degree programme are able to carry out, for example, operational analysis, process organization and technical plant maintenance working as production engineers or qualified production engineers assistants. Other fields of work include quality management, supply chain management, innovation management, project management as well as technical procurement, marketing, sales and relevant consulting activities.

Graduates are sought after in various industries, including the following.

- Production industry and management
- Metal producing and processing
- Mechanical engineering and plant construction
- Power generation
- Material conversion
- Chemicals, chemical products and pharmaceuticals
- Production and processing of food, luxury foods and beverages.
- Information technology
- Robotics.

STUDY PROGRAMME FOCUS

On the programme, you will participate in courses at a high academic level providing you with both quantitative and qualitative management competencies. You will work with mathematical optimization and other quantitative tools together with a number of process tools that are crucial in the context of project management and change management. In addition, the programme focuses on the typical areas where extensive management competencies play a decisive role e.g. operations management, supply chain management, innovation management and problem structuring.

WHO SHOULD ATTEND

The industrial and engineering management programme is designed for graduates of bachelor programmes in industrial engineering, biotechnology and food engineering, environmental process and energy engineering or mechatronics. Graduates of other degree programmes with a substantial amount of technical components may also be admitted.

LEARNING AND TRAINING METHODS

The Human Resource management programme uses a number of different assessment techniques that will allow you to demonstrate your understanding of concepts and issues covered. These may be broadly categorized as 'coursework' which may be in the form of individual or group assignments, practical problem-solving exercises and presentations.

It should be emphasized that the purpose of assessment is not only grade you, and provide information to facilitate management of the course, but also to provide feedback to you. In this manage it accordingly. You should keep all the returned assessment work in a file as you may have to submit this at the end of the programme for the academy to assess.

Individual model leaders will distribute information on the methods of assessment used, and their weighing at the start of each module.

ASSESSMENT STRATEGY

The assessment strategy for each module will be outlines within the module. The modules will be assessed as coursework. Each of the assessments that you complete will assess a series of learning outcomes defined in the modules. Note that within some modules you may complete assessments that do not carry marks, these are termed formative and are an opportunity for your to gain feedback on your progress that will help you in your summative (marks carrying) assessments.

NOTIFICATION OF ASSIGNMENTS

You will be notified of assessments by the academy. They will advise you of the requirements, the marking criteria and of the respective submission dates during one or more of the timetabled sessions.

Submission of coursework assignments is typically by one of two methods. Paper submissions are made to the address of the academy. Electronic submissions are made through email or through myglobal platform.

REFERENCING

For most of your assignments you will be expected to do some further reading and you are required to think and produce increasingly original work, around the work of others. You need to give suitable credit to those that have produced the work that you are using.

The default referencing is the GABM referencing system (a guide to this system can be found on the course space, accessed through the student portal). Please use this unless you are directed differently within your assignment brief.

FEEDBACK FOLLOWING ASSESSMENTS

You will be provided with generic feedback for in module formative and summative elements of assessment which contribute to a module within 15 working days of the scheduled submission date. Generic feedback on end of module assessment will be made available within 15 days of publication of results. Feedback may be oral, written, posted on a website or other.

The module tutors have a variety of methods for helping you to improve your performance. They will often give you direction prior to the deadline in the form of feed forward pointers based on their experiences of delivering similar learning and assessment before use this to gain a better understanding of what is expected of you.

STUDY SUPPORT

INDUCTION MODULE

All students are expected to complete the non-credit bearing Induction Module before the programme commences. The Induction Module is designed to equip students with the skills they need to study at GABM. The topics covered include:

- Studying at a distance
- Understanding your learning style
- How to manage your time
- Reading actively and critically
- Introduction to the e-library
- Developing academic writing
- Writing in your own words - a guide to how to reference your work

The resources within the Induction Module are available to students throughout the duration of their study with GABM.

STUDENT LEARNING SUPPORT

The Programme is delivered via the online and distance learning and support is provided online giving students' access to GABM tutors and other students worldwide.

The GABM Programme administrator or Director of the academy will act as the main point of contact to students throughout the duration of their Programme. The academic team will guide and support students' learning. Other GABM teams provide support for assignments, exams and technical issues.

Each student, whatever their location, will have access to a wealth of library and online materials to support their studies.

ENGLISH LANGUAGE SUPPORT

English is the common language for all programmes. It is appreciated that some students will need additional support. Therefore, the GABM provides learning resource to help students whose first language is not English.

ASSESSMENT

Assessment for the course is based primarily on coursework. In some modules tests are used to confirm knowledge and understanding of core concepts. In modules where enquiry-based learning is used, the scenarios adopted will provide the vehicles for the coursework. For the dissertation / thesis module, the assessment is based on an individual piece of research conducted by the student and culminating in the submission of a dissertation / thesis.

ACADEMIC PERFORMANCE

Students will receive a written evaluation of their academic progress, performance and professional potential. This evaluation will assist students to define their strength and weakness allowing the student to work on improving the weaker performance areas.

COURSE / MODULE WAIVER

Students requesting course waivers must compile suitable documentation for how the proposed course is comparable. Suitable documentation may include but is not limited to course syllabi, examinations, term papers, bibliographies, textbooks, reading lists and lecture notes. Lack of suitable documentation may result in denied request. Once documentation is compiled, students will request written permissions from their committee and the instructor of the course to be waived. After completing the proceeding steps, students must submit all materials to the academy.

CREDIT SHARING POLICY

If your programme includes more than 200 points, then you may share up to 30% of the total credits with another graduate or designation qualification credential.

NON- COMPENSABLE MODULES

None

PARTICULAR SUPPORT FOR LEARNING

- Learning enhancement team
- Learning resources
- Programme handbook and module handbooks
- Access to progression and support advisors
- MyGabm

REFERENCE POINTS

- Programme specification guidelines.
- GABM student handbook
- Global Academy qualifications framework
- GABM policies and procedures

PROGRAMME AIMS

PROGRAMME AIMS

This programme has been specifically designed to equip graduates with problem solving, technical and managerial skills and knowledge related to industrial and engineering management and to prepare them for professional careers in managing manufacturing, engineering and other technologically oriented services.

Graduates from this programme should develop.

- A thorough understanding of the principles and technology related to engineering and manufacturing services.
- In-depth knowledge of industrial engineering and industrial management concepts and techniques and the ability to apply these techniques in designing and managing, manufacturing, engineering and other services.
- The ability to conceptualize, analyze, synthesize and implement industrial systems and services and
- Efficiently manage manufacturing, engineering and others technology oriented systems.

LEARNING OUTCOMES

A. KNOWLEDGE AND UNDERSTANDING COGNITIVE SKILLS

LEARNING OUTCOMES

Upon successful completion of the programme you should be able to demonstrate that you have achieved a number of key learning outcomes to a level appropriate for the award of graduate or designation qualifications of the academy.

In particular, you should be able to show that you can,

Develop detailed knowledge of contemporary issues in industrial management and engineering management from both academic and professional perspectives.

Develop managerial skills to be able to communicate effectively and work efficiently individually and in teams across all levels of organizations.

Understand the difference in managing large organizations, SME's or new startups.

Critically examine evaluate and reflect on current and future challenges of industrial and service companies across the globe evaluating solutions in a rational and orderly manner but taking into account human factor related challenges and environmental and ethical issues

TEACHING/LEARNING METHODS AND STRATEGIES

Module delivery follows a standard format incorporating a range of subject appropriate resources suitable for the online distance learner. This may include, but is not limited to, video visual presentations, interactive case studies and online journals. Modules will be supported by a core e-book.

In the Postgraduate Research Project module, self-directed learning and problem solving combined with supervisor consultation further enhances knowledge and understanding, focusing on students' own chosen research topics.

Throughout the programme, students are encouraged to undertake independent study and enquiry to broaden their knowledge and understanding of the subject.

ASSESSMENT METHODS

Formative assessment opportunities and feedback are provided throughout the programme. These vary in format and may include self-assessment assignments and tutor guided discussion. All are designed to motivate and support the student.

Summative assessment methods and formats vary across the modules and are appropriate to the module and its stated learning outcomes.

B. PRACTICAL AND PROFESSIONAL OR SUBJECT SKILLS

LEARNING OUTCOMES

By the end of the Programme students should be able to demonstrate how to:

- Understand the various challenges facing managers at work, and how the manager can attempt to solve these challenges.
- Understand and apply different research methods used in organizational and management studies.
- Offer practical solutions in problem solving through analysis and discussion.
- Deal with complex ethical and professional issues in organizational studies.
- Examine the findings of researchers in organizational studies.

TEACHING/LEARNING METHODS AND STRATEGIES

Students are encouraged to share knowledge and ideas in relation to financial and accounting management. A range of online activities require students to analyze given information and make reasoned decisions.

ASSESSMENT METHODS

A range of formative assessment activities are utilized to help develop the ability to analyze problems and provide reasoned advice.

Summative assessment tests that the students have formulated appropriate strategies for financial and accounting management

PROGRAMME STRUCTURE

Module Code	Module	Core / Elective	
IEM - 101	Industrial engineering and management science	Core	20
IEM - 102	Production and Productivity	Core	20
IEM - 103	Organization	Core	20
IEM - 104	Product design, planning and development	Core	20
IEM - 105	Systems concept, value analysis and plant	Core	20
	maintenance		20
IEM - 106	Management Concepts	Elective	20
IEM - 107	Industrial Ownership, Supervisory and leadership	Core	20
IEM - 108	Industrial Psychology and Environment pollution	Elective	20
IEM - 109	Union and industrial (Labor) relations and labor	Core	20
	Legislation		20
IEM - 110	Materials, purchase, stores management,	Core	20
	Inventory control and management		20
IEM - 111	Financial management, Cost accounting and c	Elective	20
	ontrol, Budget and Budgetary Control		20
IEM - 112	Job Evaluation, merit rating and wage payment plan	Core	20
IEM - 113	Small Scale Industries and entrepreneurship	Core	20
IEM - 114	Engineering economics, Professional and	Elective	20
	business Ethics		20

DISTINCTIVE FEATURES OF THE PROGRAMME

- The Induction Module.
- The flexibility to choose the start date.
- Syllabus maps fully to the Global Academy Qualifications Framework.
- The flexibility for students to choose the pace of their study.
- The ability to interact with students from different Programmes and in varied geographical locations locally and internationally via the Mygabm.
- International professional, personal and academic networking opportunities.
- The programme and its syllabus is internationally recognized.
- Availability of interim awards either Graduate Certificate or Graduate Diploma.
- Availability of Designation Qualifications in Construction Management.

PROGRAMME CURRICULUM MAP

Module Code	Graduate Certificate	Graduate Diploma	Certified I and E Professional	Certified I and E Manager	Certified I and E Director
Industrial engineering and management science	✓	✓	✓	✓	✓
Production and Productivity	✓	✓	✓	✓	✓
Organization	✓	✓	✓	✓	✓
Product design, planning and development	✓	✓	✓	✓	✓
Systems concept, value analysis and plant maintenance	✗	✓	✓	✓	✓
Management Concepts	✓	✓	✓	✓	✓
Industrial Ownership, Supervisory and leadership	✓	✓	✓	✓	✓
Industrial Psychology and Environment pollution				✓	✓
Union and industrial (Labor) relations and labor Legislation	✓	✓	✓	✓	✓
Materials, purchase, stores mgmt, Inventory control and management		✓	✓	✓	✓
Financial management, Cost accounting and control, Budget and Budgetary Control	✓	✓	✗	✓	✓
Job Evaluation, merit rating and wage payment plan	✗	✓	✓	✓	✓
Small Scale Industries and entrepreneurship	✗	✓	✓	✓	✓
Engineering economics, Professional and business Ethics	✗	✗	✓	✓	✓
Assignments	✓	✓	✓	✓	✓
Project Report - 100 Points	✗	✗	✓	✓	✓
Credit Points	200	260	360	380	380

ASSESSMENT PATTERN

The GABM global academy consists of variety of assessment modes.

Assessed assignments (in essay , report, problem, case studies or short question format)

Written examination papers.

Project report submission.

The exact combination of assessment vary from programme to programme and from module to module.

Graduate certificate in Industrial and Engineering management	1 Assignment	200
Graduate Diploma in Industrial and Engineering management	2 Assignments	260
Certified Industrial and Engineering Professional (CIEP)	3 Assignments	360
Certified Industrial and Engineering Manager (CIEM)	3 assignments with project report	380
Certified Industrial and Engineering Director (CIED)	3 assignments with project report	380

Note: Assignments and patterns are subject to change without notice; candidates are required to contact office of executive education and professional certification of the academy for respective programme before start of the course.

MODULE DESCRIPTIONS

Module Code	IEM - 101
Module Title	Industrial engineering and management science
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about introduction to Industrial engineering and management science.

MODULE LEARNING OUTCOMES

- Define the Concept of industrial engineering
- Explain the History and development of industrial engineering
- Discuss History and development of industrial engineering
- Explain Application of industrial engineering
- Define Production management
- Differentiate Production management vs. Industrial engineering
- Discuss Operations management
- Explain Management science - Its historical development
- Summarize the Characteristics of management science
- Define The tools of management science
- Explain Managerial economics
- Explain Managerial accounting

MODULE SYLLABUS

a.	Concept of industrial engineering
b.	History and development of industrial engineering
c.	Roles of industrial engineer
d.	Application of industrial engineering
e.	Production management
f.	Production management vs. Industrial engineering
g.	Operations management
h.	Management science - Its historical development
i.j.	Characteristics of management science
k.	The tools of management science
l.	Managerial economics
m.	Managerial accounting

MODULE DESCRIPTIONS

Module Code	IEM - 102
Module Title	Production and Productivity
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Production and Productivity.

MODULE LEARNING OUTCOMES

- Define the term Production
- Explain Production function
- Discuss Production system
- Summarize Input output model
- Define Microeconomics
- Define Productivity
- Summarize the Factors affecting productivity
- Explain Increasing productivity of resources
- Explain different Kinds of productivity measures

MODULE SYLLABUS

a.	Production
b.	Production function
c.	Production system
d.	Input output model
e.	Microeconomics
f.	Productivity
g.	Factors affecting productivity
h.	Increasing productivity of resources
i.	Kinds of productivity measures

MODULE DESCRIPTIONS

Module Code	IEM - 103
Module Title	
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about organization.

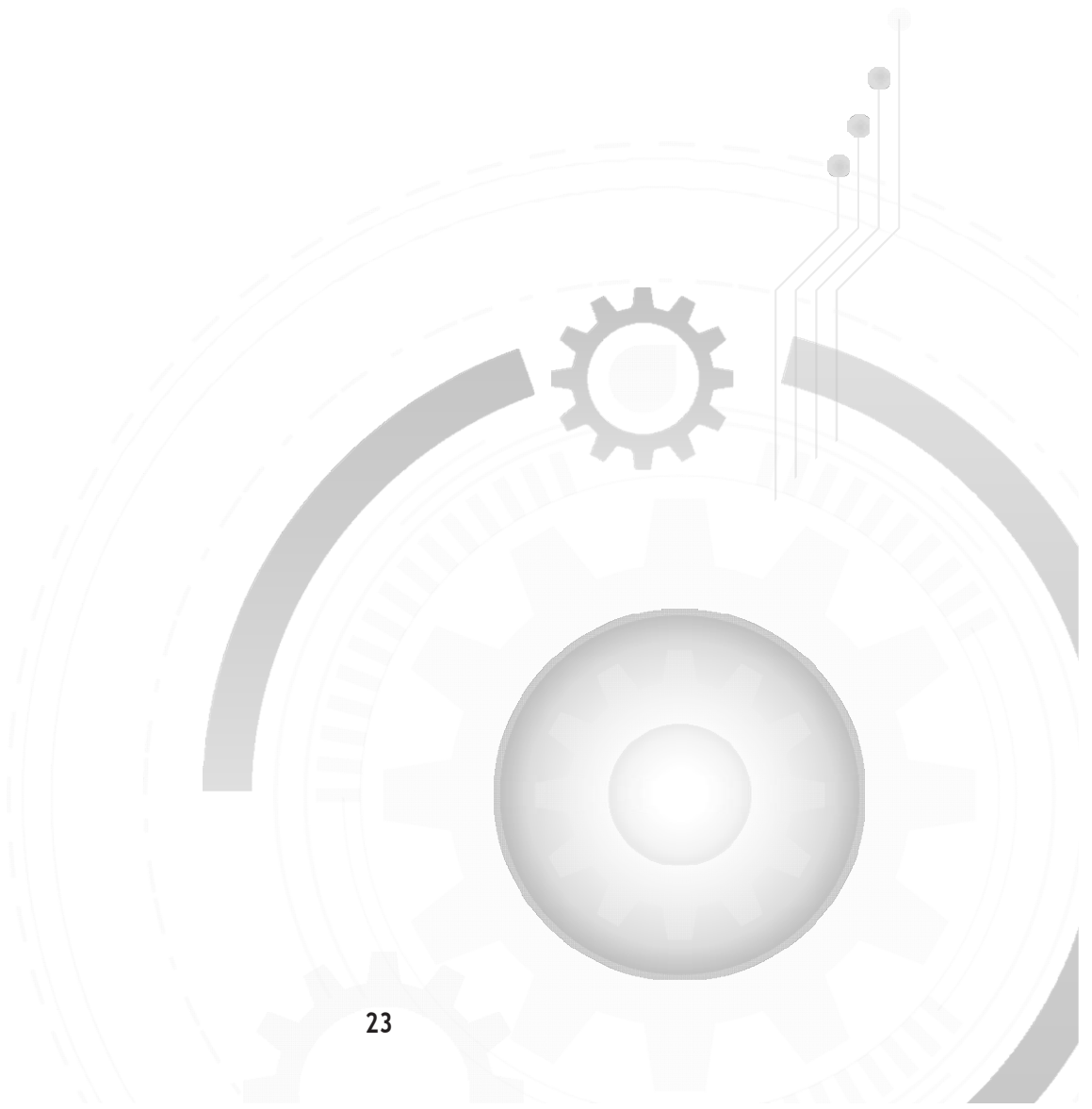
MODULE LEARNING OUTCOMES

- Define the Concept of organization
- Explain the Importance of organization
- Summarize Characteristics of organization
- Define Elements of organization
- Explain the process of organization
- Define Organization theory and Principles of organization
- Explain Organization structure
- Define design of organization structure
- Explain Organization chart and manual
- Summarize types of organization
- Define what is Committee
- Explain Project organization
- Explain Matrix organization
- Define informal organization
- Define Organization conflict
- Define Managerial leadership
- Describe Communication system
- Define the dynamics of organization

MODULE SYLLABUS

a.	Concept of organization
b.	Importance of organization
c.	Characteristics of organization
d.	Elements of organization
e.	The process of organization
f.	Organization theory
g.	Principles of organization
h.	Organization structure

l.	Design of organization structure
j.	Organization chart
k.	Organization manual
l.	Types of organization
m.	Committee
n.	Project organization
o.	Matrix organization
p.	The informal organization
r.	Organization conflict
s.	Managerial leadership
t.	Communication system
u.	The dynamics of organization



MODULE DESCRIPTIONS

Module Code	IEM - 104
Module Title	Product design, planning and development
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Product design, planning and development.

MODULE LEARNING OUTCOMES

- Give a brief Introduction to product design
- Define effect of design on cost
- Describe the requirements of a good product design
- Summarize the factors affecting product design
- Define the term design by imitation
- Define product planning
- Define product classification
- Define Product development
- Define the terms Standardization, Simplification, Specialization, Diversification, and
- Interchangeability.

MODULE SYLLABUS

a.	Introduction to product design
b.	Effect of design on cost
c.	Requirements of a good product design
d.	Factors affecting product design
e.	Design by imitation
f.	Product planning
g.	Product classification
h.	Product development
i.	Standardization
j.	Simplification
k.	Specialization
l.	Diversification
m.	Interchangeability

MODULE DESCRIPTIONS

Module Code	IEM - 105
Module Title	Systems concept, value analysis and plant maintenance
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Systems concept, value analysis and plant maintenance.

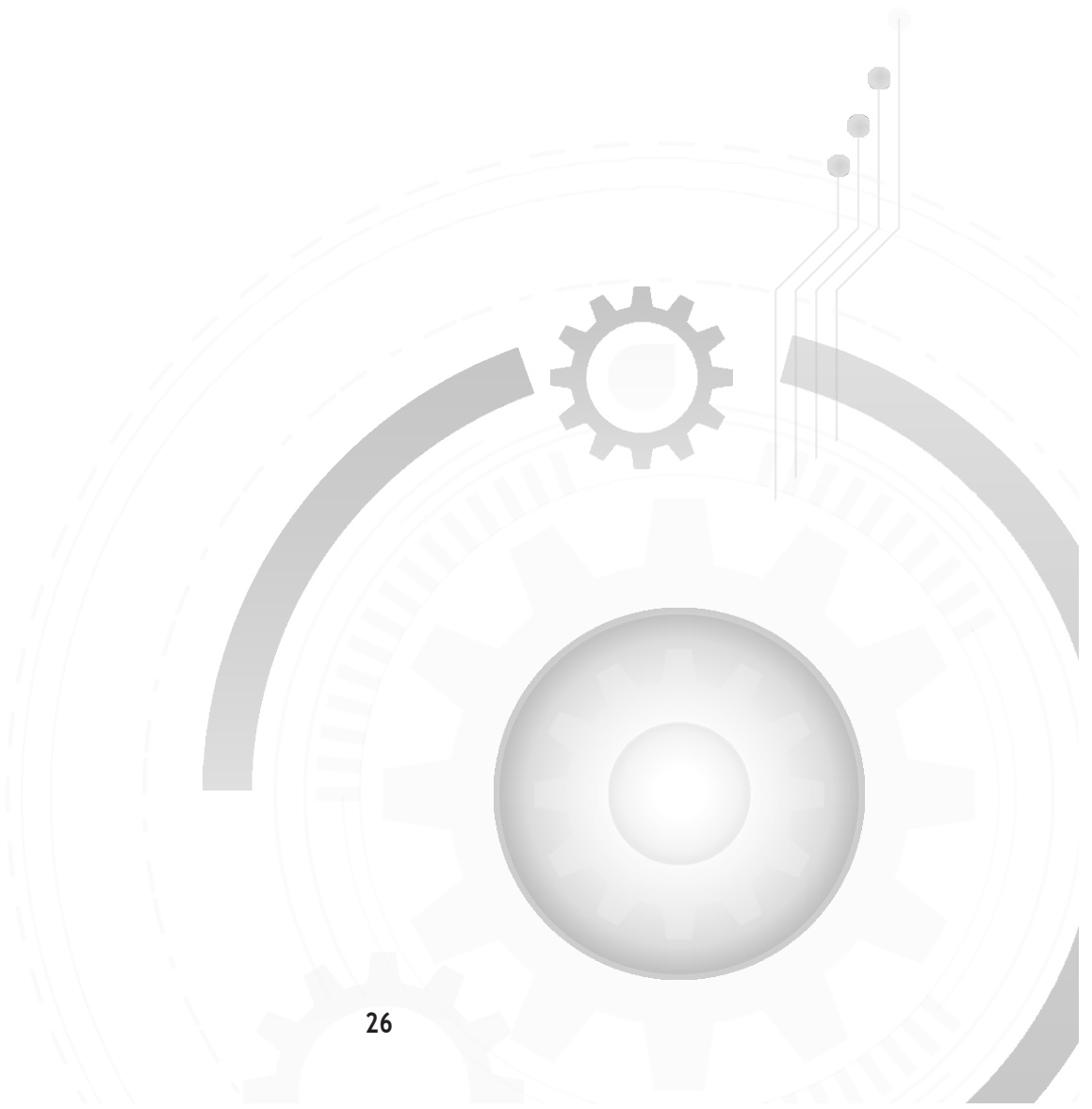
MODULE LEARNING OUTCOMES

- Define system concept, System analysis
- Explain Systems engineering
- Define techniques in system analysis
- Explain the application of systems engineering
- Define Value analysis engineering
- Define Value analysis
- Define Plant
- Define Maintenance
- Summarize Objectives of plant maintenance
- Summarize Importance of maintenance
- Explain Duties, functions and responsibilities of plant maintenance engineer
- Define organization of maintenance department
- Define corrective or breakdown maintenance
- Explain Scheduled maintenance, Preventive maintenance, Predictive maintenance
- Define Plant maintenance schedule
- Define Standard data for maintenance

MODULE SYLLABUS

a.	System concept
b.	System analysis
c.	Systems engineering
d.	Techniques in system analysis
e.	Application of systems engineering
f.	Value analysis engineering
g.	Value analysis
h.	Plant
i.	Maintenance

j.	Objectives of plant maintenance
k.	Importance of maintenance
l.	Duties, functions and responsibilities of plant maintenance engineer
m.	Organization of maintenance department
n.	Corrective or breakdown maintenance
o.	Scheduled maintenance
p.	Preventive maintenance
q.	Predictive maintenance
r.	Plant maintenance schedule
s.	Standard data for maintenance



MODULE DESCRIPTIONS

Module Code	IEM - 106
Module Title	Management Concepts
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Management Concepts.

MODULE LEARNING OUTCOMES

- Define the terms Management, Administration, Organization
- Differentiate between management, administration and organization
- Define Importance of management
- Explain the characteristics of management
- Define managerial skills
- Define managerial objectives
- Define Harmonization of objectives
- Explain Hierarchy of objectives
- Differentiate between policies, goals and objectives
- Summarize Evolution of development of management thought
- Explain Origins of principles of management
- Explain the beginning of scientific management
- Summarize Contributions of F.W. Taylor, Henri Fayol, Elton Mayo, Gilberth, Gantt
- Define Scientific management
- Explain Review of different schools of thought
- Define Principles of management
- Define Principles of exception
- Define Process of management
- Define Functions of management
- Define Levels of management
- Explain Industrial management
- Define Types of management
- Explain Management structure
- Define Need and usefulness of management theory
- Define Management development

MODULE SYLLABUS

a.	Management
b.	Administration
c.	Organization
d.	Difference between management, administration and organization
e.	Importance of management
f.	Characteristics of management
g.	Managerial skills
h.	Managerial objectives
i.	Harmonization of objectives
j.	Hierarchy of objectives
k.	Difference between policies, goals and objectives
l.	Evolution of development of management thought
m.	Origins of principles of management
n.	The beginning of scientific management
o.	Contributions of F.W. Taylor
p.	Scientific management
q.	Contributions of Henri Fayol
r.	Contributions of Elton Mayo
s.	Contributions of Gilberth
t.	Contributions of Gantt
u.	Review of different schools of thought
v.	Principles of management
w.	Principles of exception
x.	Process of management
y.	Functions of management
z.	Levels of management
aa.	Industrial management
ab.	Types of management
ac.	Management structure
ad.	Need and usefulness of management theory
ae.	Management development

MODULE DESCRIPTIONS

Module Code	IEM - 107
Module Title	Industrial Ownership, Supervisory and leadership
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Systems concept, value analysis and plant maintenance.

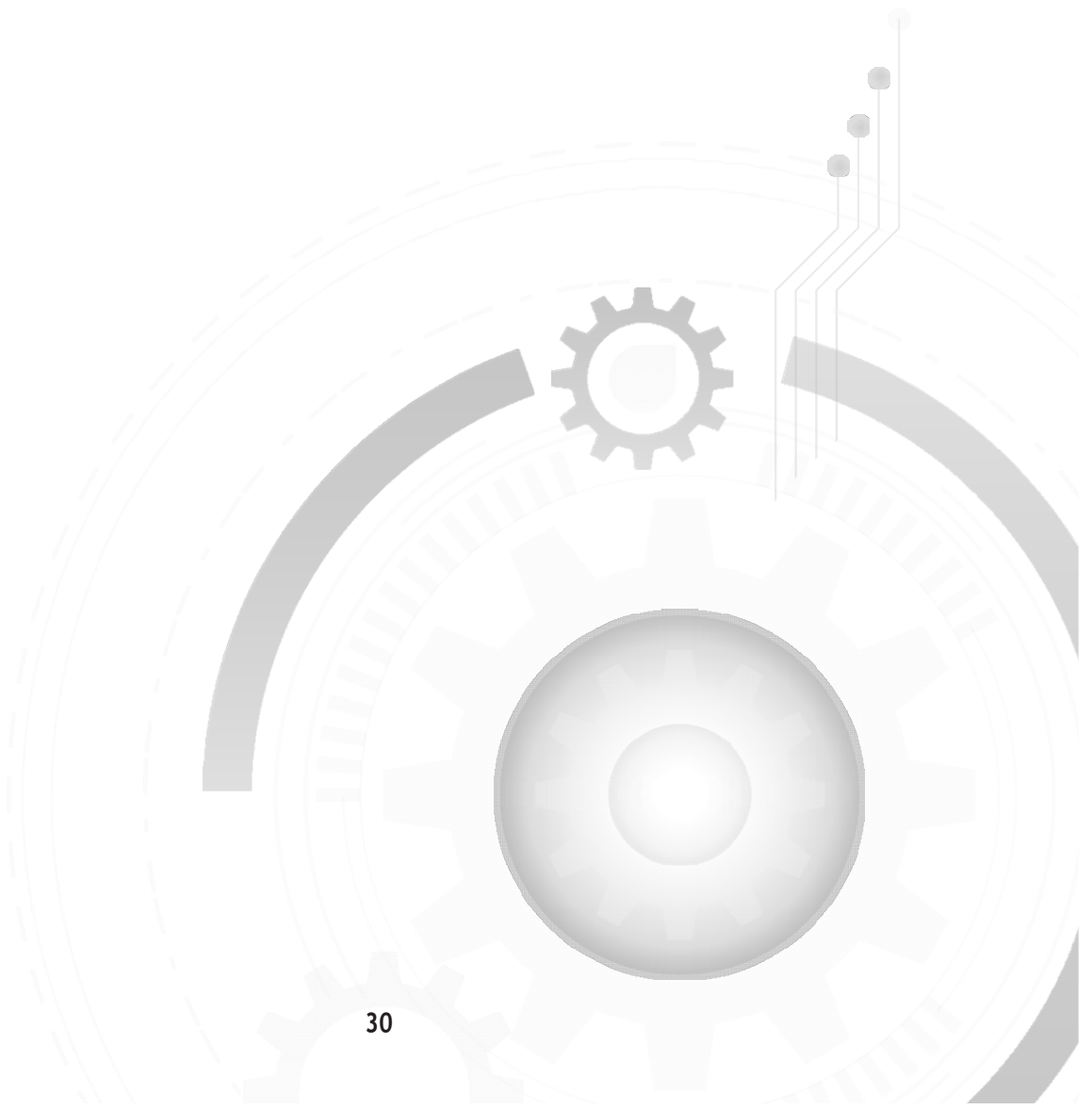
MODULE LEARNING OUTCOMES

- Define Introduction to industrial ownership
- Summarize Types of ownership
- Define Single ownership
- Define Partnership
- Explain Joint stock companies
- Define Co-operative organization
- Differentiate between Public sector and Private sector
- Give a brief Introduction to supervisory and leadership
- Define Duties and responsibilities of foreman
- Explain Qualifications of foreman
- Describe Qualities of foreman
- Describe Leadership and Qualities of (good) leadership

MODULE SYLLABUS

a.	Introduction to industrial ownership
b.	Types of ownership
c.	Single ownership
d.	Partnership
e.	Joint stock companies
f.	Co-operative organization
g.	Public sector
h.	Private sector
i.	Introduction to supervisory and leadership
j.	Duties and responsibilities of foreman
k.	Qualifications of foreman

l.	Qualities of foreman
m.	Leadership
n.	Qualities of (good) leadership



MODULE DESCRIPTIONS

Module Code	IEM - 108
Module Title	Industrial Psychology and Environment pollution
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Industrial Psychology and Environment pollution.

MODULE LEARNING OUTCOMES

- Definition and concept of industrial psychology
- Differentiate Industrial psychology versus personnel management
- Define Aims and objectives of industrial psychology
- Explain Scope of industrial psychology
- Define Individual and group
- Describe Individual differences in behavior
- Define Group dynamics - human behavior under group influence Group behavior
- Explain Theory X and Y
- Explain Hawthorne experiment
- Summarize Morale and Motivation
- Define Working, environmental conditions
- Explain Industrial fatigue
- Give a brief Introduction to environmental pollution
- Define Ecology
- Define Factors causing / affecting pollution
- Describe Effects of pollution on human health
- Define Air pollution and control
- Define Water pollution and control
- Define Solid waste management
- Define Solid waste management

MODULE SYLLABUS

a.	Definition and concept of industrial psychology
b.	Industrial psychology versus personnel management
c.	Aims and objectives of industrial psychology
d.	Scope of industrial psychology
e.	Individual and group
f.	Individual differences in behavior
g.	Group dynamics - human behavior under group influence Group behavior
h.	Theory X and Y
i.	Hawthorne experiment
j.	Morale
k.	Motivation
l.	Working, environmental conditions
m.	Industrial fatigue
n.	Introduction to environmental pollution
o.	Ecology
p.	Factors causing / affecting pollution
q.	Effects of pollution on human health
r.	Air pollution and control
s.	Water pollution and control
t.	Solid waste management
u..	Noise and its control

MODULE DESCRIPTIONS

Module Code	IEM - 109
Module Title	Union and industrial (Labor) relations and labor Legislation
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Union and industrial (Labor) relations and labor Legislation.

MODULE LEARNING OUTCOMES

- Define trade unions
- Explain Industrial relations, definitions and its concept
- Explain Trade unions or labor unions
- Define Industrial disputes
- Summarize Strikes, Lock-out, Picketing, Gherao.
- Explain Settlement of industrial disputes
- Define Collective bargaining
- Describe Handling of workers, grievances and grievance procedure
- Explain Workers (employees) participation in management
- Explain Union - management relations
- Give a brief Introduction to labor legislation
- Summarize the Importance and necessity of labor legislation (I.e. labor acts)
- Define Principles of labor legislation
- Define different Types of labor laws

MODULE SYLLABUS

a.	Trade unions
b.	Industrial relations, definitions and concept
c.	Trade unions or labor unions
d.	Industrial disputes
e.	Strikes
f.	Lock-out
g.	Picketing
h.	Gherao
i.	Settlement of industrial disputes
j.	Collective bargaining
k.	Handling of workers, grievances and grievance procedure
l.	Workers (employees) participation in management
m.	Union - management relations
n.	Introduction to labor legislation
o.	Importance and necessity of labor legislation(I.e. labor acts)
p.	Principles of labor legislation
q.	Types of labor laws

MODULE DESCRIPTIONS

Module Code	IEM - 110
Module Title	Materials, purchase, stores management, Inventory control and management
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Materials, purchase, stores management, Inventory control and management

MODULE LEARNING OUTCOMES

- Explain Materials management
- Define the functions of material management
- Define purchasing or procurement
- Explain purchase organization
- Define Quantity and quality standards
- Explain Accounting
- Describe Stores and material control
- Define Location and layout of stores
- Explain Receipt and issue of materials
- Define Store records
- Summarize Codification of materials
- Define physical verification of stores
- Define physical verification of stores
- Explain Inventory, Inventory control, Inventory classification, Inventory management,
- Summarize Inventory control, its objectives and how to achieve them
- Describe the Functions of inventories
- Define Economic order quality
- Define Inventory models
- Describe ABC analysis
- Define Material requirement planning(MRP)
- Describe Manufacturing resource planning MRP II
- Define Operating cycle

MODULE SYLLABUS

a.	Materials management
b.	Functions of material management
c.	Purchasing or procurement
d.	Purchase organization
e.	Quantity and quality standards
f.	Accounting
g.	Stores and material control
h.	Location and layout of stores
i.	Receipt and issue of materials
j.	Store records
k.	Codification of materials
l.	Physical verification of stores
m.	Inventory
n.	Inventory control
o.	Inventory classification
p.	Inventory management
q.	Inventory control, its objectives and how to achieve them
r.	Functions of inventories
s.	Economic order quantity
t.	Inventory models
u.	ABC analysis
v.	Material requirement planning(MRP)
w.	Manufacturing resource planning MRP II
x.	Operating cycle

MODULE DESCRIPTIONS

Module Code	IEM - 111
Module Title	
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Materials, purchase, stores management, Inventory control and management

MODULE LEARNING OUTCOMES

- Describe Financial management, concept and definition
- Define Purpose of investment
- Explain Types of capital
- Define Working capital
- Describe Sources of finance
- Differentiate between Reserve and Surplus
- Give a brief on Financial accounting and book keeping
- Differentiate between Assets and Liabilities
- Give a brief The journal and the ledger
- Define Trail balance
- Describe Trading account
- Define what is Financial statement
- Describe Financial ratios
- Explain Sources of finance
- Define Capitalization
- Define Capital structure
- Give a brief Introduction to cost accounting and control
- Define Elements of cost
- Differentiate between Prime cost, Overheads, Factory cost
- Nature of cost
- Define what is Types of cost
- Differentiate between Process cost and cost production
- Define Allocation of overhead cost i.e. ON cost
- Explain Control and accounting of material, labor and overhead
- Define Breakeven analysis, Breakeven chart
- Describe Budget, definition and concept
- Define Budgeting
- Define Budgetary control, definition and concept

- Describe The objectives of budgets, budgeting and budgetary control
- Explain Advantages of budget, budgeting and budgetary control
- Define Limitations of budget
- Summarize Types of budgets
- Explain Preparation of budget
- Define Budget as a means of planning, control and coordination
- Explain Operation (working) of budgetary control

MODULE LEARNING OUTCOMES

a.	Financial management, concept and definition
b.	Purpose of investment
c.	Types of capital
d.	Working capital
e.	Sources of finance
f.	Reserve
g.	Surplus
h.	Financial accounting and book keeping
i.	Assets
j.	Liabilities
k.	The journal and the ledger
l.	Trail balance
m.	Trading account
n.	Financial statement
o.	Financial ratios
p.	Sources of finance
q.	Capitalization
r.	Capital structure
s.	Introduction to cost accounting and control
t.	Elements of cost
u.	Prime cost
v.	Overheads
w.	Factory cost
x.	Nature of cost
y.	Types of cost
z.	Process cost and cost production
aa.	Allocation of overhead cost i.e. ON cost
ab	Control and accounting of material, labor and overhead
ac	Breakeven analysis
ad	Breakeven chart

ae	Budget, definition and concept
af	Budgeting
ag	Budgetary control, definition and concept
ah	The objectives of budgets, budgeting and budgetary control
ai	Advantages of budget, budgeting and budgetary control
aj	Limitations of budget
ak	Types of budgets
al	Preparation of budget
am	Budget as a means of planning, control and coordination
an	Operation (working) of budgetary control

MODULE DESCRIPTIONS

Module Code	IEM - 112
Module Title	Job Evaluation, merit rating and wage payment plan
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Job Evaluation, merit rating and wage payment plan.

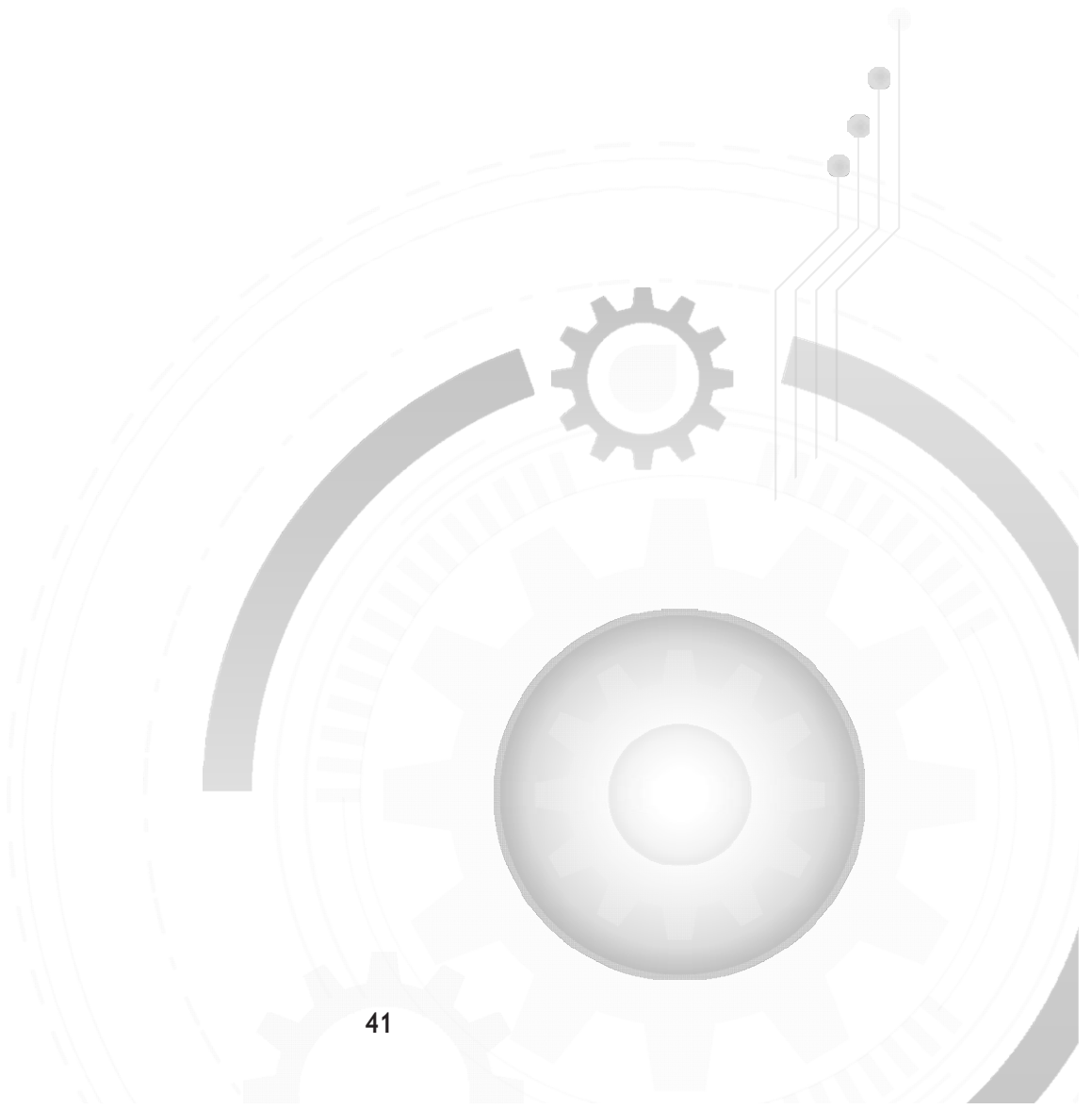
MODULE LEARNING OUTCOMES

- Give a brief Introduction to job evaluation
- Definition and concept of job evaluation
- Define Objectives of job evaluation
- Explain the Procedure of job evaluation
- Define Methods of job evaluation
- Define Merit rating
- Describe Introduction to wage payment plan
- Define Wage payment plans classification
- Explain Incentive
- Summarize Wage incentive plans
- Define Incentives for indirect workers
- Explain Profit sharing

MODULE SYLLABUS

a.	Introduction to job evaluation
b.	Definition and concept
c.	Objectives of job evaluation
d.	Procedure of job evaluation
e.	Methods of job evaluation
f.	Merit rating
g.	Introduction to wage payment plan
h.	Wage payment plans classification
i.	Incentive
j.	Wage incentive plans
k.	Incentives for indirect workers
l.	Profit sharing

k.	Effective listening
l.	Barriers to effective communication
m.	Communication tension
n.	Communication styles
o.	Communication : The impossible goal



MODULE DESCRIPTIONS

Module Code	IEM - 113
Module Title	Small Scale Industries and entrepreneurship
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Small Scale Industries and entrepreneurship

MODULE LEARNING OUTCOMES

- Give a brief Introduction to small scale industries
- Define Role of scope of small scale industries
- Define the Concept of small scale and ancillary industrial undertakings
- Define How to start a small scale industry
- Summarize Procedure for registration of small scale industries
- List of items reserved for exclusive manufacture in small scale sector
- Define Financial assistance
- Explain Other assistance provided to small units
- Define Special incentives
- Explain Assistance to educated unemployed
- Define Entrepreneurship
- Define Concept of entrepreneurship
- Describe Profile of entrepreneurship
- What is Entrepreneurial philosophy
- Define Functions of entrepreneur
- Describe Quality of entrepreneur
- What is Entrepreneurial failure
- What is Entrepreneurial development
- Define Export promotion
- Define Expectation of entrepreneurship

MODULE SYLLABUS

a.	Introduction
b.	Role of scope of small scale industries
c.	Concept of small scale and ancillary industrial undertakings
d.	How to start a small scale industry
e.	Procedure for registration of small scale industries
f.	List of items reserved for exclusive manufacture in small scale sector
g.	Financial assistance
h.	Other assistance provided to small units
i.	Special incentives
j.	Assistance to educated unemployed
k.	Entrepreneurship
l.	Concept of entrepreneurship
m.	Profile of entrepreneurship
n.	Entrepreneurial philosophy
o.	Functions of entrepreneur
p.	Quality of entrepreneur
q.	Entrepreneurial failure
r.	Entrepreneurial development
s.	Export promotion
t.	Expectation of entrepreneurship

MODULE DESCRIPTIONS

Module Code	IEM - 114
Module Title	Engineering economics, Professional and business Ethics
Credit Value	20
Pre-requisites	None
Co-requisites	None
Prohibited combinations	None
Telephone	080 - 26591957
Email	studentsupport@mygabm.com

MODULE DESCRIPTION

This module is about Engineering economics, Professional and business Ethics

MODULE LEARNING OUTCOMES

- Definition and concept of engineering economics
- What are Importance of economics for engineers
- Define Wealth, Goods, Wants, Value and price
- Define Capital, Money, Income, margin, Utility,
- Define Demand and supply
- Describe The law of substitution.
- Define Supply
- Differentiate between Equilibrium and price determination
- Define Production
- Define Factors of production
- Describe Large scale production - characteristics and causes
- Define Localization of industries
- Define Laws of returns
- Describe Distribution, Rent, Interest, Profit, Wages,
- Define Introduction to banks and banking
- Define Types of banks
- Describe Money market
- Define Credit
- Define Stock exchange
- Describe Speculation - bull and bear
- Define Principles of taxation
- Differentiate Direct and indirect taxes
- Define Income tax
- Describe Life insurance
- Define Fire insurance
- Define Machinery insurance
- Define Marine insurance

MODULE SYLLABUS

a.	Definition and concept
b.	Importance of economics for engineers
c.	Wealth
d.	Goods
e.	Wants
f.	Value and price
g.	Capital
h.	Money
i.	Income
j.	Margin
k.	Utility
l.	Demand and supply
m.	The law of substitution
n.	Supply
o.	Equilibrium and price determination
p.	Production
q.	Factors of production
r.	Large scale production - characteristics and causes
s.	Localization of industries
t.	Laws of returns
u.	Distribution
v.	Rent
w.	Interest
x.	Profit
y.	Wages
z.	Introduction to banks and banking
aa	Types of banks
ab	Money market
ac	Credit
ad	Stock exchange
ae	Speculation - bull and bear
af	Principles of taxation
ag	Direct and indirect taxes
ah	Income tax
ai	Free trade and protection

aj	Foreign exchange
ak	Mechanism of foreign exchange
al	Foreign exchange control
am	Insurance
an	Life insurance
ao	Fire insurance
ap	Machinery insurance
aq	Marine insurance



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