PROGRAMME OUTCOME

B.Sc(Computer Science):

- Student understands the fundamental concepts of computers, Mathematics, Electronics& applications in IT industry.
- Students successfully understand and analyses technical data to reach exploit conclusions including technical solution to the software Industry.
- Students are provided with Soft skills required in IT industries to learn new technologies and IT languages to solve the problems that could be addressed.
- > Students improve their Programming Skill.
- Students are able to get job opportunities in IT, Data processing & Data warehousing industries.

PROGRAMME OUTCOMES

M.Sc(Computer Science):

An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline

An ability to analyse a problem,& identify &define the computing requirements appropriate to its solution

An ability to design, implement and evaluate a computer – based system, process component, or program to meet desired needs

An ability to function effectively on teams to accomplish a common goal

An understanding of professional , ethical , legal , security and social issues and responsibilities

An ability to communicate effectively with a wide range of audiences

An ability to analyse the local and global impact of computing on individuals , organizations , and society

Recognition of the need for and an ability to engage in continuing professional development

An ability to use current techniques , skills , and tools necessary for computing practice

PROGRAM SPECIFIC OUTCOMES

On completion of the B.Sc(Computer science) students are able to :

- 1. Serve as programmer or Software Engineer with sound knowledge of practical and theoretical concepts for developing software's.
- 2. Serve as Computer Engineer with enhanced knowledge of computers and its building blocks.
- 3. Work as Hardware designer / Engineer with knowledge of Networking concepts.
- 4. Work as Systems Engineer and System integrator.
- 5. Serve as System administrator with thorough knowledge of DBMS.
- 6. Give Technical support for various systems.
- 7. Work as support Engineer and Technical writer.
- 8. Work as Consultant and Management officers for system management.
- 9. Work as IT sales and Marketing person.
- 10. Serve as IT Officer in Banks and cooperative societies.
- 11. Work as DTP Operator in small scale industries.

12. Serve as Web Designer with latest web development technologies.

PROGRAM SPECIFIC OUTCOMES

The career opportunities after M.Sc (computer science) are quite huge. Many major national and multinational firms take in aspirants who have accomplished their graduation in these fields. The top IT firms such as Microsoft , Google ,Yahoo , Rediff ,Wipro , TCS , Infosys , Accenture , Cap Gemini etc. offer aspirants very attractive packages. Jobs for professionals in these fields can also be got with management consultancy organizations , Government organizations , Banks , Educational Institutions , Research Organizations and other organizations that use computers and computer-aided systems.

On completion of the M.Sc (computer science) students are able to work as :

- 1. Programmer or Software Engineer
- 2. Computer Engineer
- 3. Web designer
- 4. Hardware Designer/Engineer
- 5. Systems Engineer

- 6. System integrator
- 7. System administration
- 8. Technical support
- 9. Support Engineer
- 10. Technical writer
- 11. Consultant
- 12. Management
- 13. Administration
- 14 IT Sales and marketing
- 15. IT Officer
- 16. Computer Scientist
- 17. Professor
- 18. Research Staff Member
- **19. System Analyst**
- 20. Logic Designer
- 21. Computer scientist in research and R & D laboratories.

Sr.	Names of	Topics	Outcome	Cross Cutting
No	Subject			Issues
1.	Electronics	Analog Electronics	Students of computer science, just need basic knowledge of Electronic components like resister, capacitor, inductor, diode, transistor etc.	 1.Students can handle small issues of repairing of various electronics equipment 2.Student become aware of power consumption of electronic equipment
		Digital Electronics	Students are able to design computer based digital system	Our lives are based around logical decisions. Digital electronic is based on logic circuitry. Digital electronic lends itself very nicely to solving real world logic problems
		Communication Principles	Electronic communication is the transmission, reception and processing of information between two or more location with the use of electronic circuits	Electronic communication plays and important role in modern business and society. One can't think of passing modern life and managing modern businesses without electronic communication.

		Microcontroller	Student act	The majority of
		Microcontroller	Student get knowledge of architecture of microcontroller, assemble language, programming and interfacing of hardware to microcontroller.	The majority of microcontrollerare embedded in other machinery such as automobile, telephone, appliences and peripherals for computer system.
2.	Mathematics	Algebra & Calculus	Properly using the language and notification of calculus, students will analyse functions and solve applied problems	Students will apply this knowledge to applied problems, such as related rates ,maximization, and in determining work, mass, volume and area.
		Discrete Mathematics	Students will learn some fundamental mathematics concepts and terminology.	Students can form different graph models. They can distinguish between two chemical compounds with the same molecular formulas but different structures using graphs.

		Applied Algebra Computational Geometry	Students will do vectors operation , also they can encode and decode secret messages	Using cryptography one can converts data into and unreadable format to an unauthorised person , allowing it to be transmitted without unauthorised entities decoding it back into a readable format. Students use to various 2D and 3D
				effects to learn more about environment
		Operations Research	Students learn decision making with the help of operations research	Operations research deals with the applications of advanced analytical methods to help make better decisions.
3.	Statistics	Statistics 1	Meaning of variable, systematics arrangement of collective information, representative value of collective	To decide better/bad by comparision. Interrelationship, to estimate the future , to arrange the data by time factor.

			information, comparisonbetween two organization.	
		Statistics 2	They will learn probability models, expectation, conditional probability, probability distributions and permutation, combination.	Students can analyse overall future by hypothesis techniques, by using hypothesis techniques and probability, students can analyse unknown values.
4.	Computers	C - Programming	Students learn basic concepts of computer programing and fundamentals of a computer Language.	The students get to learn the basics of computers which help them in understanding the internal working of computer.
		DBMS	Students learn concepts of file organization in Linux environment	Students get to learn about data storage implemented in IT industries

C++ ProgrammingThe language is a bit higher version of basic programmingStudents get to learn about higher concepts in programming such as Object orientationJavaJAVA is a programming language most widely use in software developmentJAVA allows the student to learn actual working of a software process and developmentInternet ProgrammingStudents learn developmentMost commonly use language for developing a web page and how things run on internetMost commonly use language for developing a web page and how things run students get developing a web page and how things run students get deep knowledge of working of System software that are implemented on insideComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physical levelStudents get theoretical as well as practical knowledge of setting up a network	 	-		a . b
version of basic programminghigher concepts in programming such as Object 		-	00	U
programmingin programming such as Object orientationJavaJAVA is a programming language most widely use in software developmentJAVA allows the student to learn actual working of a software process and developmentInternet ProgrammingStudents learn about developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical Computer ScienceTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as well as practical knowledge of setting up a network		Programming	-	
JavaJAVA is a programming language most widely use in software developmentJAVA allows the student to learn actual working of a software process and development of applicationsInternet ProgrammingStudents learn about developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the are carried insideStudents get deep knowledge of working of system software that are implemented on insideComputer NetworksStudent learn about developing a web page and how things run on internetStudents get deep knowledge of working of System software that are implemented on insideComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as well as practical knowledge of setting up a network				
JavaJAVA is a programming language most widely use in software developmentJAVA allows the student to learn actual working of a software process and development developmentInternet ProgrammingStudents learn about about web page and how things run on internetMost commonly use language for developing a web page and how things run on internetTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried implemented on insideStudents get developing a website and students are also assigned with a projectComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as well as practical knowledge of setting up a network			programming	
Java JAVA is a programming language most widely use in software development Programming Programming Programming Development Programming Programming Developing a web page and how things run on internet Computer Science Therotical Computer Science Computer Science Computer Science Computer Science Scien				such as Object
programming language most widely use in software developmentstudent to learn actual working of a software process and development of applicationsInternet ProgrammingStudents learn about developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get developing of system software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as well as practical knowledge of setting up a network				orientation
Internet ProgrammingStudents learn about development about developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as well as practical knowledge of setting up a network		Java	JAVA is a	JAVA allows the
widely use in software developmenta software process and development of applicationsInternet ProgrammingStudents learn about developing a web page and how things run on internetMost commonly developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the of working of ScienceStudents get developing a web site and students are also assigned with a projectTherotical ComputerTCS is all about knowing the of working of System software that are are carried insideStudents get of working of Student learn basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get setting up a network			programming	student to learn
software developmentprocess and development of applicationsInternet ProgrammingStudents learn about developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get theoretical as well as practical and how manual networking is done as physicalComputer NetworksStudent learn basic concepts of networking is done as physicalStudents get theoretical as well as practical setting up a network			language most	actual working of
developmentdevelopment of applicationsInternetStudents learn aboutMost commonly use language for developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as well as practical knowledge of setting up a network			widely use in	a software
Internet ProgrammingStudents learn about use language for developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are insideComputer NetworksStudent learn basic concepts of networking is done as physicalStudents get deep knowledge of working of setting up a network			software	process and
Internet ProgrammingStudents learn about developing a web page and how things run on internetMost commonly use language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on insideComputer NetworksStudent learn of networking are carried inden the of networking setting up a networking is done as physical			development	development of
Programmingabout developing a web page and how things run on internetuse language for developing a website and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get deep knowledge of working of system software that are implemented on basic level				applications
developing a web page and how things run on internetdeveloping a website and students are also assigned with a projectTherotical Computer ScienceTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn of networking deep knowledge of working of system software that are implemented on insideComputer NetworksStudent learn basic concepts of networking and how manual networking is setting up a network		Internet	Students learn	Most commonly
web page and how things run on internetwebsite and students are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking is and how manual and how manual howing is of setting up a networkStudent get setting up a network		Programming	about	use language for
how things run on internetstudents are also assigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking is done as physicalStudents get theoretical as network			developing a	developing a
on internetassigned with a projectTherotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is setting up a network			web page and	website and
Therotical ComputerTCS is all about knowing the internals of the of working of System software what processes are carried insideStudents get deep knowledge of working of System software what processes that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get theoretical as setting up a network			how things run	students are also
Therotical ComputerTCS is all about knowing the internals of the computer and what processes are carried insideStudents get deep knowledge of working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudents get network			on internet	assigned with a
Computerknowing the internals of the computer and what processes are carried insidedeep knowledge of working of System software that are implemented on basic levelComputerStudent learn basic conceptsStudents get theoretical as of networking and how manual networking is done as physicalMeep knowledge of working of System software that are implemented on basic level				project
Scienceinternals of the computer and what processes are carried insideof working of System software that are implemented on basic levelComputer NetworksStudent learn basic concepts of networking and how manual networking is done as physicalStudent get theoretical as setting up a network		Therotical	TCS is all about	Students get
computer and what processes are carried insideSystem software that are implemented on basic levelComputer NetworksStudent learn basic conceptsStudents get theoretical as of networking and how manual networking is setting up a done as physical		Computer	knowing the	deep knowledge
what processes are carried insidethat are implemented on basic levelComputerStudent learnStudents get theoretical as of networking and how manual knowledge of setting up a done as physical		Science	internals of the	of working of
are carried insideimplemented on basic levelComputer NetworksStudent learn basic conceptsStudents get theoretical as of networking and how manual networking is setting up a network			computer and	System software
insidebasic levelComputerStudent learnStudents getNetworksbasic conceptstheoretical asof networkingwell as practicaland how manualknowledge ofnetworking issetting up adone as physicalnetwork			what processes	that are
Computer NetworksStudent learn basic conceptsStudents get theoretical as well as practical and how manual networking is done as physical			are carried	implemented on
Networksbasic conceptstheoretical asof networkingwell as practicaland how manualknowledge ofnetworking issetting up adone as physicalnetwork			inside	basic level
of networkingwell as practicaland how manualknowledge ofnetworking issetting up adone as physicalnetwork		Computer	Student learn	Students get
and how manual networking isknowledge of setting up a done as physical		Networks	basic concepts	theoretical as
networking issetting up adone as physicalnetwork			of networking	well as practical
done as physical network			and how manual	knowledge of
			networking is	setting up a
			done as physical	network
			level	

System	To analyse	Students get to
programming	system software	learn about to
and operating	and design	internal working
system	Assemblers. To	of CPU and how
	design and	Operating
	implement	system works
	microprocessors,	
	linker and loader	
	. To understand	
	and implement	
	Scheduling	
	algorithms	
Computer	Learn about	Students get the
Graphics	graphical user	information
	interface and	about how
	how these	graphics are
	effects actually	working and
	work.	what kind of
		effects are to be
		given to a
		program.

Outcome & Cross Cutting Issues.(M.Sc(CS))

Sr.	Subject Code	Subject	Outcome
No.			
SEM-1			
1	CS-101	Principles of programing Language	1.Toanalyze the strengths and weaknesses of programing languages for effective and efficient of program development.2.To inculcate the
2	CS-102	Advanced	using JAVA 1.Understand network
_		Networking	fundamentals with
			TCP/IP architecture.

	<u>Department</u>	Of Computer Scient	nce
			 2.Aware with client server programming and its application using socket interface. 3.Understand IGMP ICMP and IP datagrams. 4.Understant the mobile and advoc network programing.
3	CS-103	Distributed data base concepts	Identify the introductory distributed data base concepts and its structures. Describe terns related to distributed object database design and management. Produce the transaction management and query processing techniques in DDBMS. Relate the importance and application of emerging database technology.
4	CS-104	Design and Analysis of Algorithms	1.Design efficient algorithms using various algorithm designing techniques. 2.Comprehend dynamic programming using control abstraction and longest common subsequence.

5	CS-105	Networking Programming	3.Classifying any problem as NP completed and NP hard. Analyse the requirement of a networking programming environment and identify the issues to be solved create conceptual solution to those issues and implement a programming solution understand the key protocols that support the Internal apply
			several common programing interface to networking
			communication
65NA 11			
SEM-II			
1	CS-201	Digital Image Processing	 Understand the application of digital image processing. Explore Knowledge about image processing fundamentals. Get aware about image sampling and quantization and operation on image. Understand histogram processing

	Department (Of Computer Scier	nce
			 and various image filtering algorithms. 5. Know about various noise models and transformation techniques. 6. Be aware of various morphological technics and segmentation schemes.
2	CS-202	Advanced Operating Systems	 Study files subsystem for UNIX operating system. Understand detail working of UNIX operating system. Understand process and memory management technics.
3	CS-203	Data Mining and Data Warehousing	 Understand data warehousing for business analyses using OLAP, OLTP, MOLAP and ROLAP. Explore the concepts of data mining and data pre- processing. Understand concept of association rule mining Grasp classification and prediction and analyse different issues related to them. Identify different

	Departme	ent Of Computer Scie	ence
			cluster analyses technics 6. Know about advance data mining technics such as spatial data mining and understand the concept of big data analysis
4	CS-204	Project	Project work is a learning experience which aims to provide a students with the opportunity to synthesise knowledge from various areas of learning, and critically and creatively apply it to real life situation. This process, which enhances students ' knowledge and enables them to acquire skills like collaboration, communication and independent learning, prepares them for lifelong learning and the challenges ahead.
5	CS-205	Programming With DOT NET	 Web application in ASP.NET for Login Processing. Demonstration of validation controls in ASP.NET

Department (Of Computer Science
<u> </u>	<u> </u>

			 3. Deployment of Calendar Control in ASP.NET 4. Traversing and selecting a Product Name displayed in dropdown list, through coding in the Form Load Event in ASP.NET 5. Creation of Web application in ASP.NET for Conditions-based book issue in a library. 6. Deployment of Data Grid in ADO.NET for viewing product details.
6	CS-206	Artificial Intelligence	CO-1: To understand the basic concept of Neural Network, Inference and Learning. CO-2: To know the models such as Classification Models, Association Models, Optimization Models, optimization Models, and Self-Organization Models. Co-3: To explain the difference between supervised and unsupervised learning. CO-4: To impact the knowledge about

			types of Neural Networks. Co-5: To understand the Incremental learning concepts. Co-6: To clear the knowledge based Approaches in Incremental learning
SEM-III			
1	CS-301	Software Metrics & Project Management	 Decide on a process model for a developing a software project. Classify software applications and Identify unique features of various domains. Design test cases of a software system. Understand basics of IT project management. Plan, schedule and execute a project considering the risk management . Apply quality attributes in software development life cycle.
2	CS-302	Mobile Computing	CO-1: Introduce various wireless systems and standards and their basic

odel
es
r
ance.
d how
al
oding
and
d the
)
ion in
ms
on
ty.
n
e
ireless
)
s
alyse
esults.
cture.
e
of
ues
the
the

			. CO-4: To understand the back propagation algorithm.CO-5:To know the concepts of Fuzzy logic.CO-6:To understand Fuzzy and crisp relations and conversions.
4	CS-304	Project	Project Work is a learning experience which aims to provide students with the opportunity to synthesise knowledge from various areas of learning , and critically and creatively applied it to real life situations. This process ,which enhances student 'knowledge and enables them to acquire skills life collaboration, communication and independent learning, prepares them for lifelong learning and the challenges ahead.
5	CS-305	Web services	:Understand analyse, and apply the role of markup languages like HTML , DHTML , and XML in the working of the web and web application CO-

			2:DevelopXML
			documents, XML DTD
			and XML Schema to
			formulate the web
			services. CO-3:Able to
			write a XML
			application using
			structure and
			presentation
			technologies and
			apply XML
			manipulation
			technologies such as
			XSLT, XPath, XLink and
			XQuery.CO-4:Gainud
			knowledge on basic
			concepts of SOA and
			web service
			framework with
			respect to SOA.CO-
			5:Able to design and
			launch Web services.
			To Use , in their own
			programs, web
			services published by
			others.
6	CS-306	Database and	To create an
		System	awareness of Trouble
		Administration	shooting PC.CO-2:To
			Understand the
			concept of BIOS.CO-3:
			To learn basics about
			Disks Trouble
			Shooting.CO-5:To
			understand the
			concepts of Mother
			Board.CO-6:To learn,

Department Of Computer Science			
			maintain and upgrade Mother Board Trouble Shooting.CO-7:To understand the fundamental memory concepts.CO-8:To maintain, upgrade and Trouble Shooting Memory.
7	CS-308	Business Intelligence	Identify the major frameworks of computerize decision support: decision support system(DSS),data analytics and business intelligence(BI).Explain the foundations, definition, and capabilities of DSS, data analytics and BI. List the definitions, concepts and architectures of data warehousing. Demonstrate the impact of business reporting, information visualization, and dashboards.
SEM-IV			
1	CS-401	Industrial Training /Institutional project	Ability to demonstrate the use , interpretation and application of an appropriate

engineering standard in a specific situation, 2.Ability to analyse a given engineering problem, identify an appropriate problem solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	international
in a specific situation, 2.Ability to analyse a given engineering problem, identify an appropriate problem solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
 2.Ability to analyse a given engineering problem, identify an appropriate problem solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to affectively communicate solution 	
given engineering problem, identify an appropriate problem solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	•
problem, identify an appropriate problem solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
appropriate problem solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
solving methodology, implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
implement the methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
methodology and propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
propose a meaningful solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	-
solution. 3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	methodology and
3. Ability to apply prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	
prior acquired knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	solution.
knowledge in problem solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	3. Ability to apply
solving. 4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	prior acquired
4. Ability to identify sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	knowledge in problem
sources of hazards, and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	solving.
and assess/identify appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	4. Ability to identify
appropriate health & safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	sources of hazards,
safety measures. 5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	and assess/identify
5. Ability to work in a team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	appropriate health &
team. 6. Ability to take initiatives. 7. Ability to effectively communicate solution	safety measures.
 6. Ability to take initiatives. 7. Ability to effectively communicate solution 	5. Ability to work in a
initiatives. 7. Ability to effectively communicate solution	team.
initiatives. 7. Ability to effectively communicate solution	6. Ability to take
communicate solution	-
communicate solution	7. Ability to effectively
	to problems.