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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course9: ADVANCED CALCULUS AND NUMERICAL METHODS

Course9 Code: 18MAT21

Course Outcomes: After studying this course, the students will be able to:

CO 1	Illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line surface and volume integrals.
CO 2	Demonstrate various physical models through higher order differential equations and solve such linear ordinary differential equations.
CO 3	Construct a variety of partial differential equations and solution by exact methods/method of separation of variables.
CO 4	Explain the applications of infinite series and obtain series solution of ordinary differential equations.
CO 5	Apply the knowledge of numerical methods in the modeling of various physical and engineering phenomena.

Course Instructor: Dr Manjunatha C

Signature

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H O D Dept. of Mathematics

Institute of Technology

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or. T. Thirmmaiah Institute of Tech



F.No:DrTTIT/IQAC/2020-21/075L

Course2: ENGINEERING PHYSICS

Course2 Code: 18PHY12/22

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to analyze various types of oscillations and there implications, the role of shock waves in various fields and recognize the elastic properties of materials in engineering applications.
	Recognize the interrelation between time varying electric and magnetic
CO 2	field, transverse nature of EM waves and the role in OFC.
CO 3	Analyze Figen values and Eigen functions, momentum of atomic and sub-
	atomic participles using time independent Schrodinger's wave equations in 1D
	Understand theoretical background of laser, construction and working of
CO 4	Understand theoretical background of laser, construction and working
	different types of laser and its applications.
CO 5	Understand various electrical and thermal properties of materials
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Course instructor

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Department of Basic Science & Humanities

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Dorgaum Pose Kolar Gold Fields-563128

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F.No:DrTTIT/IQAC/2020-21/075L

Course3: BASIC ELECTRICAL ENGINEERING

Course3 Code: 18ELE13/23

Course Outcomes: After studying this course, the students will be able to:

CO 1	Define the basics of electrical sciences related to principles of electromagnetism & analyse AC and DC circuits
CO 2	Distinguish between the 3 phase measuring instruments and study the domestic wiring
CO 3	Explain the principle of operation and construction of single phase transformer
CO 4	Explain the principle of operation and construction of DC machines and synchronous machines
CO 5	Explain the principle of operation and construction of three phase induction motors

Course Instructor: VEENA-B

Signature

HOD Signature

Head of the Department

Dept, of Electrical Engineering
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F.-563-120.

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Prashanthi



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course4: ELEMENTS OF CIVIL ENGG.

Course4Code: 18CIV14/24

Course Outcomes: After studying this course, the students will be able to:

	Know the basics of civil engineering its scope of study, knowledge about roads
CO 1	1 11
CO 2	Comprehend the action of forces, moments and other loads on system of rigid
	bodies. Compute the relative forces and effects that develop as a result of external loads.
CO 3	Compute the relative forces and effects that develop as a resulting process
CO 4	Locate the Centroid and compute the moment of intertia of regular cross
	sections.
CO 5	Express the relationship between the motions of bodies and equipped to pursue
	studies courses in mechanics.

Burse Instructor: M M 202

Signature

HOD Sigha Department Dept. of Civil Engineering

Dr. T. Thimmalah Institute of Technology Oorgaum, K.G.F. - 563 120



F.No:DrTTIT/IQAC/2020-21/075L

Course5: ENGINEERING GRAPHICS

Course5 Code: 18EGDL15/25

Dr. Navalinhan

Course Outcomes: After studying this course, the students will be able to:

CO 1	Sketch and draft the orthographic projection of points and lines with the help of solid edge software using standards and conventions
CO 2	Relate and acknowledge orthographic projection in projecting the various planes as per given condition
CO 3	Sketch the projection of solids after identify the given conditions and translating it in to engineering drawings
CO 4	constructthe isometric views of simple objects reading the orthographic projections

Course Instructor: Navasanhar

Signature

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Head of the Department

Dept. of Mechanical Engineering

Dr. T. Thimmalah Institute of Technology, Oorgaum, K.G.F.-563 120.

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course6: ENGG. PHYSICS LAB

Course6 Code: 18PHYL16/26

Course Outcomes: After studying this course, the students will be able to:

	Analyze and demonstrate the concept of phenomenon of light and Magnetic
CO 1	effect of current.
	Analyze and demonstrate the principles of operations of optical fibers and semi-
CO 2	conductor devices.
	Determine elastic module and moment of inertia of given materials.
CO 3	
	Able to demonstrate the resonance concept and its applications.
CO 4	
CO 5	Understand the importance of measurement procedure, honest recording and
	representing the data, reproduction of final results.
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Department of Basic Science & Humanities

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course7: BASIC ELECTRICAL LAB

Course7 Code: 18ELE17/27

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the fundamentals of basic electrical circuits.
CO 2	Describe the direct current and alternating current circuits.
CO 3	Discuss the concepts of circuit protecting device and earthing.
CO 4	Explain the principal of operation & construction of different machines.

Course Instructor: VEENA-B

Signature (

Head of the Department ✓ Dept. of Electrical Engineering

Dr. T. Thimmaiah Institute of Technology Oorgaum, K.G.F.-563 120.

Suchihadevi



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course16: TECHNICAL ENGLISH-11

welnte Din

Course16 Code: 18EGH28

Course Outcomes: After studying this course, the students will be able to:

CO 1	Identify common errors in spoken and written communication
CO 2	Get familiarized with English vocabulary and language proficiency.
CO 3	Improve nature and style of sensible writing and acquire employment and workplace communication skills
CO 4	Improve their Technical Communication Skills through Technical Reading and writing practices.
CO 5	Perform well in campus recruitment, engineering and all other general competitive examination.

Course Instructor:

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HOD Signature

Department of Basic

Serence & Humanities

Thimmalak Postitute of Technology
Oorgaum Post Kolar Gold Fields-563120



F.No:DrTTIT/IQAC/2020-21/075L

Course2: ENGINEERING PHYSICS

Course2 Code: 18PHY12/22

Course Outcomes: After studying this course, the students will be able to:

CO I	Able to analyze various types of oscillations and there implications, the role of shock waves in various fields and recognize the elastic properties of materials in engineering applications.
CO 2	Recognize the interrelation between time varying electric and magnetic field, transverse nature of EM waves and the role in OFC.
CO 3	Analyze Eigen values and Eigen functions, momentum of atomic and sub- atomic participles using time independent Schrodinger's wave equations in 1D
CO 4	Understand theoretical background of laser, construction and working of different types of laser and its applications.
CO 5	Understand various electrical and thermal properties of materials

Course Instructor

SHEELA KUMARI.V

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HOD Signature

Department of Basic

Science & Humanities

Jr Thimmatol Pastitute of Technology Dorgaum Post Yelar Gold Fields-56312

PRINCIPAL



F.No:DrTTIT/IQAC/2020-21/075L

Course6: ENGG. PHYSICS LAB

Course6 Code: 18PHYL16/26

Course Outcomes: After studying this course, the students will be able to:

	Analyze and demonstrate the concept of phenomenon of light and Magnetic
CO 1	effect of current.
	Analyze and demonstrate the principles of operations of optical fibers and semi-
CO 2	
CO 2	conductor devices.
	Determine elastic module and moment of inertia of given materials.
CO 3	
00.4	Able to demonstrate the resonance concept and its applications.
CO 4	
CO 5	Understand the importance of measurement procedure, honest recording and
	representing the data, reproduction of final results.
	representing the data, represent

Course Instructor:

SHEELA KUMARIV

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HOD Signature

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course9: ADVANCED CALCULUS AND NUMERICAL METHODS

Course9 Code: 18MAT21

Course Outcomes: After studying this course, the students will be able to:

CO 1	Illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line surface and
	volume integrals. Demonstrate various physical models through higher order differential
CO 2	equations and solve such linear ordinary differential equations.
CO 3	Construct a variety of partial differential equations and solution by exact methods/method of separation of variables.
CO 4	Explain the applications of infinite series and obtain series solution of ordinary differential equations.
CO 5	Apply the knowledge of numerical methods in the modeling of various physical and engineering phenomena.

Course Instructor: K.G. Sandhya.

HOD Signature

S. KALYANA KUMAR.

H O Dept. of Mathematics

Institute of Technology

rangaum, Kotar Gold Fields-563 120

Saralashanti



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course2: ENGINEERING PHYSICS

Course2 Code: 18PHY12/22

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to analyze various types of oscillations and there implications, the role of shock waves in various fields and recognize the elastic properties of materials in engineering applications.
CO 2	Recognize the interrelation between time varying electric and magnetic field, transverse nature of EM waves and the role in OFC.
CO 3	Analyze Eigen values and Eigen functions, momentum of atomic and sub- atomic participles using time independent Schrodinger's wave equations in 1D
CO 4	Understand theoretical background of laser, construction and working of different types of laser and its applications.
CO 5	Understand various electrical and thermal properties of materials

Course Instructor

SARALA SHANTHI.J

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HOD Signature

Department of Basic Science & Humanities

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course5: ENGINEERING GRAPHICS

Course5 Code: 18EGDL15/25

Course Outcomes: After studying this course, the students will be able to:

CO 1	Sketch and draft the orthographic projection of points and lines with the help of solid edge software using standards and conventions
CO 2	Relate and acknowledge orthographic projection in projecting the various planes as per given condition
CO 3	Sketch the projection of solids after identify the given conditions and translating it in to engineering drawings
CO 4	constructthe isometric views of simple objects reading the orthographic projections

Course Instructor: Spinives A

Signature

HOD Signature

Head of the Department

Dept. of Mechanical Engineering Or. T. Thimmalah Institute of Technology, Oorgaum, K.G.F.-563 120.

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course6: ENGG. PHYSICS LAB

Course6 Code: 18PHYL16/26

Course Outcomes: After studying this course, the students will be able to:

	Analyze and demonstrate the concept of phenomenon of light and Magnetic
CO 1	effect of current.
	Analyze and demonstrate the principles of operations of optical fibers and semi-
CO 2	conductor devices.
CO 3	Determine elastic module and moment of inertia of given materials.
CO 4	Able to demonstrate the resonance concept and its applications.
CO 5	Understand the importance of measurement procedure, honest recording and representing the data, reproduction of final results.

Course Instructor:

SARALA SHANTHI, J

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Department of Basic

Science & Humanities

Di Telminatal Nestitute of Technology
Dorgaum Post Kolar Gold Fields-563127



F.No:DrTTIT/IQAC/2020-21/075L

Semester: 1

Course1: CALCULUS & LINEAR ALGEBRA

Coursel Code: 18MAT11

Course Outcomes: After studying this course, the students will be able to:

CO 1	Apply the knowledge of calculus to solve problems related to polar curves and its application in determining the bendness of a curve
CO 2	Solve 1st order Ordinary differential equations including problems in electrical
CO 2	Apply the Partial differentiation to find total derivative and jacobians of a given
CO 3	multi Variable functions.
CO 4	Evaluate multiple integrals in Cartesian and Polar coordinate systems
CO 5	Solve the system of simultaneous linear equations using matrix and rank techniques.

Course Instructor: Dr Manjunatha C

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Institute of Technology

Julyaum, Kolar Gold Fields-563 120



F.No:DrTTIT/IQAC/2020-21/075L

Semester: 1

Course1: CALCULUS & LINEAR ALGEBRA

Coursel Code: 18MAT11

Course Outcomes: After studying this course, the students will be able to:

CO 1	Apply the knowledge of calculus to solve problems related to polar curves and its application in determining the bendness of a curve
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CO 3	Apply the Partial differentiation to find total derivative and jacobians of a given multi Variable functions.
CO 4	Evaluate multiple integrals in Cartesian and Polar coordinate systems
CO 5	Solve the system of simultaneous linear equations using matrix and rank techniques.

Course Instructor: K.G. Sandhya.

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HOD Signature

II O D Dept of Mathematical Institute of Technology

Juryaum, Kolar Gold Fields-563 125



F.No:DrTTIT/IQAC/2020-21/075L

Course8: TECHNICAL ENGLISH-1

Course8 Code: 18EGH18

Course Outcomes: After studying this course, the students will be able to:

CO 1	To make them understand technical communication.
CO 2	Introducing skills of listening, speaking, reading & writing.
CO 3	Understanding listening skills and phonetics.
CO 4	Developing Listening skills vocabulary.
CO 5	To develop speaking skills, grammar, and vocabulary.

Luchtra Dem Course Instructor:

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HOD Signature

Department of Basic Science & Humanities

In Thirmmalak restitute of Technology

Dorgaum Post Kotar Gold Fields-563120



F.No:DrTTIT/IQAC/2020-21/075L

Course7: BASIC ELECTRICAL LAB

Course7 Code: 18ELE17/27

Course Outcomes: After studying this course, the students will be able to:

CO I	Explain the fundamentals of basic electrical circuits.
CO 2	Describe the direct current and alternating current circuits.
CO 3	Discuss the concepts of circuit protecting device and earthing.
CO 4	Explain the principal of operation & construction of different machines.

Ronald Laurence . J

Head of the Department

 Dept. of Electrical Engineering Dr. T. Thimmaiah Institute of Technology.

Oorgaum, K.G.F.-563 120.



F.No:DrTTIT/IQAC/2020-21/075L

Course5: ENGINEERING GRAPHICS

Course5 Code: 18EGDL15/25

Course Outcomes: After studying this course, the students will be able to:

	of the first of the state of
CO 1	Sketch and draft the orthographic projection of points and lines with the help of solid edge software using standards and conventions
CO 2	Relate and acknowledge orthographic projection in projecting the various planes as per given condition
CO 3	Sketch the projection of solids after identify the given conditions and translating it in to engineering drawings
CO 4	constructthe isometric views of simple objects reading the orthographic projections

Course Instructor: Anitha Devi 3. H.

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Head of the Department

Dept. of Mechanical Engineering Dr. T. Thimmaiah Institute of Technology, Oorgaum, K.G.F.-563 120.



F.No:DrTTIT/IQAC/2020-21/075L

Course3: BASIC ELECTRICAL ENGINEERING

Course3 Code: 18ELE13/23

Course Outcomes: After studying this course, the students will be able to:

CO 1	Define the basics of electrical sciences related to principles of electromagnetism & analyse AC and DC circuits
CO 2	Distinguish between the 3 phase measuring instruments and study the domestic wiring
CO 3	Explain the principle of operation and construction of single phase transformer
CO 4	Explain the principle of operation and construction of DC machines and synchronous machines
CO 5	Explain the principle of operation and construction of three phase induction motors

Ronald Lawrence J

Course Instructor:

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HOD Signature
Head of the Department
Dept. of Electrical Engineering
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F.-563 120.





F.No:DrTTIT/IQAC/2020-21/075L

Semester: 1

Course1: CALCULUS & LINEAR ALGEBRA

Coursel Code: 18MAT11

Course Outcomes: After studying this course, the students will be able to:

CO 1	Apply the knowledge of calculus to solve problems related to polar curves and its application in determining the bendness of a curve
CO 2	Solve 1st order Ordinary differential equations including problems in electrical circuits
CO 3	Apply the Partial differentiation to find total derivative and jacobians of a given multi Variable functions.
CO 4	Evaluate multiple integrals in Cartesian and Polar coordinate systems
CO 5	Solve the system of simultaneous linear equations using matrix and rank techniques.

Dr. Kalyan Kumar.S. Course Instructor:

H O D Dept. of Mathematics

Institute of Technology

soum, Kolar Gold Fields-563 120



F.No:DrTTIT/IQAC/2020-21/075L

Course9: ADVANCED CALCULUS AND NUMERICAL METHODS

Course9 Code: 18MAT21

Course Outcomes: After studying this course, the students will be able to:

CO 1	Illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line surface and volume integrals.
CO 2	Demonstrate various physical models through higher order differential equations and solve such linear ordinary differential equations.
CO 3	Construct a variety of partial differential equations and solution by exact methods/method of separation of variables.
CO 4	Explain the applications of infinite series and obtain series solution of ordinary differential equations.
CO 5	Apply the knowledge of numerical methods in the modeling of various physical and engineering phenomena.

Course Instructor: Shailaga. S. R

Fon. Sowatcha Prakach Signature

HOD Signature
11 0 0 Dept. of Mathematics.

Institute of Technology

Jugaum, Kolar Gold Fields-563, 120



F.No:DrTTIT/IQAC/2020-21/075L

Course10: ENGG. CHEMISTRY

Course10 Code: 18CHE12/22

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to understand operating principles and the reaction mechanism of electrodes, batteries and fuel cells
CO 2	Able to analyses the causes and control of corrosion of metals for industrial applications
CO 3	Able to calculate the calorific value of different types of fuels for production and Consumption of energy.
CO 4	Able to measure and arrive valid conclusion for the usage of water by various chemical Processes.
CO 5	Differential techniques of instrumental methods of analysis, Fundamental principles of nano materials.

C. VINODHINI
Course Instructor:

Department of Chemistry

Dr. T. Thimmaiah Institute of Technology

Oorgaum, K.G.F - 563 120

Muly Dr. T. Thimmaian instable of tear Oorgaum, K.G.F. - 563 120.



F.No:DrTTIT/IQAC/2020-21/075L

Course11: C Programming for Problem Solving

Course11Code: 18CPS13/23

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the various hardware and software components and fundamentals of C.
CO 2	:Understand and use various decision making statements
CO 3	Construct a programming solution to the given problem using arrays
CO 4	Understand the concept of functions.
CO 5	Construct a program using structures and pointers.

Course Instructor:

Signature

Dr. S. Sreedhar Kumar

B.E., M.E., Ph.D. (Anna Univ. C)
Head of the Department Dept. of Computer Science Or T Thimmaiah Institute of Technology Ooraum, K.G.F. - 563 120

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course12: BASIC ELECTRONICS Course12Code: 18ELN14/24

Course Outcomes: After studying this course, the students will be able to:

CO 1	Describe the operations of some basic semiconductor devices and its applications.
CO 2	Evaluate some analog circuits and linear IC's applications.
CO 3	Describe and evaluate number system, simple combinational and sequential logic circuits.
CO 4	Illustrate basic working principle of communication systems and GSM.

Course Instructor: NIJANAGESTHA

Signature

Head of the Department

Bept. of Electronics and Communication Engg. Dr T.Thirmmalah Institute of Technology Oorgaum, K.G.F.- 563 120.

Dr. T. Thimmaian mountain Corgaum, K.G.F. - 563 120.



F.No:DrTTIT/IQAC/2020-21/075L

Course13: ELEMENTS OF MECHANICAL ENGINEERING Course13Code: 18ME15/25

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the fundamental concepts of energy and its sources of conversion and thermodynamics.
CO 2	Demonstrate the concepts of Boiler, Turbines and Pumps.
CO 3	Explain the basic concepts of IC Engines and Refrigeration.
CO 4	Distinguish between Metal joining process and Power transmission in engineering industry.
CO 5	Associate the different Metal removal process and Automation techniques in manufacturing system.

Course Instructor: Anand Gadekar

Signature

HOD Signature Head of the Department

Dept. of Mechanical Engineering Or. T. Thimmalah Institute of Technology,

Oorgaum, K.G.F.-563 120.

Or. Tr. Thimmeigh-Institute of Technology.

Ogramm, K.G.F. - 563 120.



F.No:DrTTIT/IQAC/2020-21/075L

Course14: ENGG. CHEMISTRY LAB Course14Code: 18CHEL16/26

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to handle different types of instruments and develop skills in operating instruments
CO 2	Able to prepare solutions of different concentrations and calculate equivalence points through graph
CO 3	Able to distinguish between the types of water from different sources to get accurate results using sample materials.

C.VINDHINI Course Instructor: Signature Signature

HOD Signature

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F - 563 120

Sophia



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course15: COMPUTER PROGRAMMING LAB

Course15Code: 18CPL17/27

Course Outcomes: After studying this course, the students will be able to:

CO 1	Understand the basic principles of programming and its tools.
CO 2	Achieve knowledge of design and develop c problem solving skills
CO 3	Trace ,develop and debug modular programming skills

S. Sophia Course Instructor:

Signature

HOD Fignature
Dr. S. Sreedhar Kumar
B.E., M.E., Ph.D. (Anna Univ C)

Head of the Department
Dept of Computer Science
Dr T Thimmaiah Institute of Technology
Ooraum, K G F - 563 120

Arimadevi



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course13: ELEMENTS OF MECHANICAL ENGINEERING Course13Code: 18ME15/25

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the fundamental concepts of energy and its sources of conversion and thermodynamics.
CO 2	Demonstrate the concepts of Boiler, Turbines and Pumps.
CO 3	Explain the basic concepts of IC Engines and Refrigeration.
CO 4	Distinguish between Metal joining process and Power transmission in engineering industry.
CO 5	Associate the different Metal removal process and Automation techniques in manufacturing system.

Course Instructor: Anith Devi S.H.

Signature

Head of the Department

Dept. of Mechanical Engineering Or. T. Thimmaian Institute of Technology, Oorgaum, K.G.F.-563, 120.

PRINCIPAL



F.No:DrTTIT/IQAC/2020-21/075L

Course13: ELEMENTS OF MECHANICAL ENGINEERING Course13Code: 18ME15/25

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the fundamental concepts of energy and its sources of conversion and thermodynamics.
CO 2	Demonstrate the concepts of Boiler, Turbines and Pumps.
CO 3	Explain the basic concepts of IC Engines and Refrigeration.
CO 4	Distinguish between Metal joining process and Power transmission in engineering industry.
CO 5	Associate the different Metal removal process and Automation techniques in manufacturing system.

Course Instructor: Saupath.

Signature

HQD Signature

Head of the Department
Dept. of Mechanical Engineering
Dr. T. Thimmaiah Institute of Technology,
Oorgaum, K.G.F.-563 120.





F.No:DrTTIT/IQAC/2020-21/075L

Course10: ENGG. CHEMISTRY

Course10 Code: 18CHE12/22

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to understand operating principles and the reaction mechanism of electrodes, batteries and fuel cells
CO 2	Able to analyses the causes and control of corrosion of metals for industrial applications
CO 3	Able to calculate the calorific value of different types of fuels for production and Consumption of energy.
CO 4	Able to measure and arrive valid conclusion for the usage of water by various chemical Processes.
CO 5	Differential techniques of instrumental methods of analysis, Fundamental principles of nano materials.

ARCHAMA · N Course Instructor:

Signature

HOD Department of Chemistry

Dr. T. Thimmaiah Institute of Technology

Oorgaum, K.G.F - 563 120

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course14: ENGG. CHEMISTRY LAB

Course14Code: 18CHEL16/26

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to handle different types of instruments and develop skills in operating instruments
CO 2	Able to prepare solutions of different concentrations and calculate equivalence points through graph
CO 3	Able to distinguish between the types of water from different sources to get accurate results using sample materials.

ARCHANA · N Course Instructor: Signature

HOD Signature

Department of Chemistry

Dr. T. Thimmaiah Institute of Technology

Oorgaum, K.G.F - 563 120

Shallibilan



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course16: BASIC ELECTRONICS

Course16 Code: 18ELN24

Course Outcomes: After studying this course, the students will be able to:

Dr. T. Thimmaiah Institute of Technology Oorgaum, K.G.F. - 563 120.

CO 1	Describe the operation of diodes, BJT, FET and Operational Amplifiers.
COT	
CO 2	Design and explain the construction of rectifiers, regulators, amplifiers, SCR's and oscillators
CO 3	Explain the working and design of Fixed voltage IC regulator using 7805
	and A stable oscillator using Timer IC 555
00.4	Explain the different number system and their conversions and construct
CO 4	simple combinational and sequential logic circuits using Flip-Flops.
CO 5	Describe the basic principle of operation of communication system and
	mobile phones

Course Instructor: SHASHI KIRAN S

Head of the Department

Dept. of Electronics and Communication Engg. Dr T.Thimmaiah Institute of Technology Oorgaum, K.G.F.- 563 120.





F.No:DrTTIT/IQAC/2020-21/075L

Semester: 1

Course1: CALCULUS & LINEAR ALGEBRA

Coursel Code: 18MAT11

Course Outcomes: After studying this course, the students will be able to:

CO 1	Apply the knowledge of calculus to solve problems related to polar curves and its application in determining the bendness of a curve
CO 2	Solve 1st order Ordinary differential equations including problems in electrical circuits
CO 3	Apply the Partial differentiation to find total derivative and jacobians of a given multi Variable functions.
CO 4	Evaluate multiple integrals in Cartesian and Polar coordinate systems
CO 5	Solve the system of simultaneous linear equations using matrix and rank techniques.
	For Sziraleha Pra
	Cl. A. C. R. Signature

Course Instructor: Shailaja . S. R.

Signature

H O D Dept. of Mathematics Institute of Technology

Oorgaum, K.G.F. - 563 120.

MKR



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course10: ENGG. CHEMISTRY

Course10 Code: 18CHE12/22

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to understand operating principles and the reaction mechanism of electrodes, batteries and fuel cells
CO 2	Able to analyses the causes and control of corrosion of metals for industrial applications
CO 3	Able to calculate the calorific value of different types of fuels for production and Consumption of energy.
CO 4	Able to measure and arrive valid conclusion for the usage of water by various chemical Processes.
CO 5	Differential techniques of instrumental methods of analysis, Fundamental principles of nano materials.

K. R MOHANA Course Instructor: KR Malana Signature

HOD Signature

Department of Chemistry

Dr. T. Thimmaiah Institute of Technology

Oorgaum, K.G.F - 563 120

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course11: C Programming for Problem Solving

Course11Code:18CPS13/23

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the various hardware and software components and fundamentals of C.
CO 2	:Understand and use various decision making statements
CO 3	Construct a programming solution to the given problem using arrays
CO 4	Understand the concept of functions.
CO 5	Construct a program using structures and pointers.

Course Instructor: Nisha Bai M

Signature Mul

Dr. S. Sreedhar Kumar

Head of the Department Dept. of Computer Science Dr T Thimmaiah Institute of Technology Ooraum, K G F - 563 120

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Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course12Code: 18ELN14/24 Course12: BASIC ELECTRONICS

Course Outcomes: After studying this course, the students will be able to:

CO 1	Describe the operations of some basic semiconductor devices and its applications.
CO 2	Evaluate some analog circuits and linear IC's applications. Describe and evaluate number system, simple combinational and sequential logic
CO 3	Describe and evaluate number system, simple combinational and circuits.
CO 4	Illustrate basic working principle of communication systems and GSM.

Course Instructor: INBALATHA.K.

Signature

Sagari



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course13: ELEMENTS OF MECHANICAL ENGINEERING Course13Code: 18ME15/25

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the fundamental concepts of energy and its sources of conversion and thermodynamics.
CO 2	Demonstrate the concepts of Boiler, Turbines and Pumps.
CO 3	Explain the basic concepts of IC Engines and Refrigeration.
CO 4	Distinguish between Metal joining process and Power transmission in engineering industry.
CO 5	Associate the different Metal removal process and Automation techniques in manufacturing system.

Course Instructor: Sagar's

Signature

HOD Signature
Head of the Department

Dept. of Mechanical Engineering Or. T. Thimmaiah Institute of Technology,

Oorgaum, K.G.F.-563 120.



F.No:DrTTIT/IQAC/2020-21/075L

Course14: ENGG. CHEMISTRY LAB

Course14Code: 18CHEL16/26

Course Outcomes: After studying this course, the students will be able to:

CO 1	Able to handle different types of instruments and develop skills in operating instruments
CO 2	Able to prepare solutions of different concentrations and calculate equivalence points through graph
CO 3	Able to distinguish between the types of water from different sources to get accurate results using sample materials.

KRMOHAWA
Course Instructor:

Signature

HOD Signature

Department of Chemistry

Dr. T. Thimmalah Institute of Technology

Oorgaum, K.G.F - 563 120

Nilhabai



Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY DEPARTMENT OF BASIC SCIENCE & HUMANITIES

F.No:DrTTIT/IQAC/2020-21/075L

Course15: COMPUTER PROGRAMMING LAB

Course15Code: 18CPL17/27

Course Outcomes: After studying this course, the students will be able to:

CO 1	Understand the basic principles of programming and its tools.
CO 2	Achieve knowledge of design and develop c problem solving skills
CO 3	Trace ,develop and debug modular programming skills

Course Instructor: Nisha BaiM

Signature Nul

HOD Signature

Dr. S. Sreedhar Kumar B.E., M.E., Ph.D (Anna Univ C)

Head of the Department
Dept. of Computer Science
Dr T Thirmsiah Institute of Technology

Ooreum, K.G.F - 563 120