# Nirma University, Ahmedabad

(Statutory University Established under the State Act and recognized by the University Grants Commission under section -2(f) of the UGC Act, 1956)



# TRANSCRIPT

The statement showing the Semester and Course wise performance of the student



Name of the Institute: Institute of Technology

Programme : B. Tech. in Mechanical Engineering Duration : 4 years (8 semesters)

1 1 0 Statistic	. B. reem in Meemaniear Engineering	Duration jean	o (o semesters)
Roll No.	Student's Name	Month & Year of Admission	Month & Year of Completion
19BME134	Shrey D Shah	July - 2019	June - 2023

Course Coo	de & Title	CG Cr	Course Code & Title	CG	Cr
Semester :			Semester : V		
2MA101	Linear Algebra	A+ 4	2ME501 Machine Design - I	A	4
2PY101	Physics	B+ 4	2ME502 Automation and Control	B+	4
2CL102	Environmental Studies	A 2	2ME503 Heat and Mass Transfer	A	4
2CS101	Computer Programming	A+ 4	2EE551 Electrical Machines	B+	1
2EE101	Elements of Electrical and Electronics	B+ 4	2MEDE02 Basics of Flight and Aerodynamics	A	3
ZEETOT	Engineering		2ICOE51 Programmable Logic Controller	A	3
2EE102	Electrical Workshop	A 1	UEIM007 Financial Management	A	3
2SP101	Design Thinking	A -		redits Earned :	
2SP101 2SP102	ICT Tools and Cyber Security	B+ -	THE STATE STATE AND ADDRESS OF THE STATE OF		
		lits Earned : 19	PPI: 8.90 Progressive Cre	edits Earned: 1	00
SPI : 9.00	Cred	iits Earned: 19	Semester : VI		
Composton a l			2ME601 Energy Systems - I	A	4
Semester : 1			2ME602 Machine Design - II	A	3
2MA201	Calculus and Differential Equations	B+ 4	2MEDE61 Basics of Machine Learning	A	3
2CY101	Chemistry	B+ 3	2MEDE65 CNC Technology and Programming	A	3
2ME101	Engineering Graphics	A 4	2CSOE78 Scientific Programming	A	3
2HSI101	English Communication	A 3	2HSOE03 Media, Culture and Society	A	3
2ME201	Introduction to Mechanical Engineering	A 1	SPI : 9.00 Cr	redits Earned:	19
2ME102	Mechanical Workshop	A 1	PPI: 8.92 Progressive Cre	dits Earned : 1	19
2SP103	Critical Thinking	B+ -	Semester : VII	and Daniel 1 1	-
2SP104	Yog and Meditation	A+ -			
SPI: 8.56	Cred	lits Earned: 16	2ME701 Manufacturing Technology and Manageme		4
PPI : 8.80	Progressive Cred	lits Earned : 35	2ME702 Energy Systems - II	В	3
Semester :	The state of the s		2MEDE19 Operations Research	A	3
			2MEDE21 Rapid Prototyping	B+	3
2ME301	Material Science and Engineering	A 4	2CLOE29 Project Management	B+	3
2ME302	Manufacturing Processes - I	A 4	2CSOE54 Database Management Systems	B+	3
2ME303	Thermodynamics	A 3	2ME703 Minor Project	A+	2
2ME304	Theory of Machines	A 4	2ME704 Summer Internship	A+	1
2ME305	Mechanics of Solids	A 3	SPI : 8.27	redits Earned:	22
2HS341	Principles of Management	A 2	PPI : 8.82 Progressive Cre	edits Earned: 1	41
2ME306	Introduction to Computer Aided Drafting	A+ 1	Semester : VIII		
2SP301	Community Services	Α -	The state of the s	NO	
SPI: 9.05	Cred	lits Earned : 21	2ME801 Major Project / Internship SPI: 10.00 Cu	A+ redits Earned :	11
PPI: 8.89	Progressive Cred	lits Earned: 56	SF1:10.00	reuits Earneu:	11
Semester:	IV				
2ME401	Metrology and Quality Control	A 4			
2ME402	Fluid Mechanics and Hydraulic Machines	A 4	Coloroffic palament film and a second		
2ME403	Manufacturing Processes - II	A+ 4	The same of the sa		
2ME404	Dynamics of Machines	A 4			
2MA401	Mathematics for Mechanical Engineering	B+ 3	A STATE OF THE PROPERTY OF THE PARTY OF THE		
2HS342	Principles of Economics	A 2			
2ME405	Introduction to Machine Design	A 1			
SPI : 9.05	The state of the s	lits Earned : 22	the still blocketh data study build related at our		
PPI : 8.94			De standarden materiale estado estado estado		
111 . 0.94	riogressive Cred	nts Earneu . /o			

Total Credits Earned	Cumulative Performance Index (CPI)	Equivalent % Marks	Class obtained
152	8.90/10	84.0	First Class with Distinction

CG = Course Grade

Cr = Credit

SPI = Semester Performance Index

PPI = Progressive Performance Index

23321414

Date: 06-Jun-2023





- Medium of Instructions : English
- Eligibility Criteria for Admission:

(i) Higher Secondary Certificate Examination (10+2) or recognized examinations considered equivalent by the University passed with Chemistry, Physics and Mathematics students are admitted in the first semester of the B.Tech. programme. (ii) Diploma Examination in the concerned discipline from Technical Examination Board, Gujarat State or from the Nirma University or recognized examinations considered equivalent by the Nirma University in addition to the Secondary Certificate Examination (10<sup>th</sup>) passed students are admitted in the third semester of B.Tech. programme.

# THE PROVISION OF DIFFERENT RELEVANT REGULATIONS

## Performance level of the student in the course

Grade (G)	Qualitative Meaning (GQ)	Equivalent Grade Point (g)	Grade (G)	Qualitative Meaning (GQ)	Equivalent Grade Point (g)
A+	Excellent	10	В	Good	7
A	Creditable	9	C+	Satisfactory	6
B+	Very Good	8	C	Average	5

## **PASSING STANDARDS**

- Minimum passing grade for a course 'C'
- Minimum CPI required for passing a programme 5.00

## **CALCULATION OF INDICES**

- PIC -- Performance index for the course = Equivalent grade point (g) corresponding to the course grade
- PPI = (Up to any stage under consideration)  $(i_1 c_1 + i_2 c_2 + i_3 c_3 .....)$  / (Sum of credits of all courses registered up to that stage), where,  $i_1$ ,  $i_2$ ,  $i_3$  .... are PIC values of credit courses passed and  $c_1$ ,  $c_2$ ,  $c_3$ ..... are the credit values of the respective courses.
- SPI = This index is similar to PPI except that the stage to be considered is the end of a semester.
- CPI = This index refers to the entire programme. It is calculated when the student passes the programme. The method of calculation is the same as for PPI or SPI but the summation is for the courses of all semesters of the programme.

All index values will be rounded off to the second place of decimal.

#### **CLASS AND PERCENTAGE MARKS**

CPI value, its equivalent class and formula for computing the percentage of marks from the CPI obtained by the student are given below.

CPI value	Equivalent class	
5.00 To 6.49	Second	Percentage marks = $(CPI - 0.5) \times 10$
6.50 To 7.49	First	
7.50 and above	First with Distinction	

Nirma University, Ahmedabad

Institute Name : Institute of Technology

Programme Name: B. Tech. in Mechanical Engineering

19BME134

Student's Name Shrey D Shah						-		-	_
Semester : I					2MA201	L 3	1	Р	C 4
2MA101	L	T	Р	C	Calculus and Differential Equations	3	1		4
Linear Algebra  Rank and Inverse of Matrix, Solution of System of Space, Subspace, Basis of Vector Space, Ran Transformation, Matrix of General Linear Transformation, Similarity, Eigen Values and Vectors, Communication	k Nullity ormation, (	Theore Chang	em, je of	Linear Basis	Calculus, Beta, Gamma function, Surface area, Volumultivariable Calculus: Differentiation & Integration, Equations, Partial Differential Equations (First Order)  2CY101  Chemistry				
Diagonalization & Quadratic forms.					Water and its treatment, Fuel and its analysis, Lubr	ricant	s an	d Gre	eases
2PY101	L	Т	P	C	Polymer and Polymer composites, Green Chemistry, Fi				
Physics	2	1	2	4	Nano materials, Organic electronic materials, Liquid Electrochemical systems and Advanced engineering ma			ruei	Cell
Physics of Nanomaterials, Lasers and Hologra Optics, Nuclear and Plasma Physics, Basic cor Physics of Vacuum Techniques and Cryogenics, and Ultrasonics	cepts of	Plasm	na ph	nysics,	2ME101 Engineering Graphics Importance and Applications of Engineering Drawing	L 2	T .	P 4	C 4
2CL102	L	Т	P	C	and conic curves, Projection of points, straight lines				
Environmental Studies	1	1	-	2	section of solids and development of surfaces, ort	hogra	aphic	proje	ection
nvironment and its Multidisciplinary nature conservation, Concepts of sustainability, Environ	ment Impa	act As	ssess	sment,	isometric projection, Computer aided drafting tools 2HSI101 English Communication	L 1	T 1	P 2	C 3
Types of Pollution and pollutant, Causes, effect Water, Air, Noise, Soil and Radioactive pollutions or pollution, Solid waste managements and solutions, Water conservation, Environ	ion; Role ent, Enviro	of in	divid ntal	lual in ethics- ts.	Vocabulary Building, Writing Skills, Nature and Communication and its types, Oral Communication. Group Discussions, Persuasive Communication,	Pre	senta	ation	skills
2CS101	L	T	P	С	communication, Listening Skills, Short stories, Poems.		_	-	_
Computer Programming	2	1	2	4	2ME201	L	T	Р	С
Introduction to Computers, Typical C Program and steps, Flowchart, Algorithm, Test Cases, Int Data types, Decision Statements and control Struand Strings, Library functions and User defined Arguments by value and by reference, Pointers, St	roduction fuctures, Ar	to Pro rays, s in (	Gran Chai	nming, racters assing	Introduction to Mechanical Engineering Introduction to Engineering, Overview of Mechantroduction to Engineering Design, Emerging Trends approach, career opportunities				
2EE101	L	T	P	C	2ME102	L	,	2	1
Elements of Electrical and Electronics Engineering Review of DC Circuits, Single Phase AC Circuits, Electromechanical Energy Conversion, Ana					Mechanical Workshop  Demonstration and job preparation of Joining process Sheet Metal work, Carpentry, Blacksmithy, use of comachines			ing,	
Electronics.					2SP103	L	Т	Р	С
2EE102	L	Т	P	C	Critical Thinking	-	2	-	
Electrical Workshop  Wiring Techniques, Introduction to Electronic Equipment, Introduction to Electrical Componer Basics of Household Electrical Equipment, Electr Design of Electrical Panels, Introduction to DC Ma 2SP101	its, Solder rical Safety	ring T	echr	niques,	Introduction to Thinking, Brain and Thinking, Anatomy Rationality and its model, Fast and Slow Thinking, Ot Assumptions and Skepticism, Paradigm shift, Perce	ption nd E	vity, S , Pre	Subje ejudic Dec	ectivity ce an ductiv
Design Thinking		2		_	2SP104	L	T	Р	С
					Yog and Meditation			2	-
Defining Design Thinking and the process. Creative reflection. Ideas and tools. History of success Diversity and collaboration.  2SP102  ICT Tools and Cyber Security  Internet as a Learning tool, Search Engines, (1)	sful/unsuc L 2	T -	P -	C -	Introduction of "YOG", Astangyog, Sukshmayog Suryanamaskar, Rules for asanas (Before & After), stomach, Asanas for relaxation and rest,Kriya (Kapa Bhastrika, Tribandha, Ujjayi, Pranayama (Anulom (Bhramari), Importance of diet for "Total Health", relaxation	Asa albhra a,	nas inti a Vilom	for b nd T a),	rain ratak Omka
Sharing and Collaboration Tools, Teaching/le	earning to	ols,	Infor	mation					
development, and Management Tools, Info Presentation tools, Audio/video resource creation Security, Attacks and prevention Zombies and Dangers in Browsers, Worms, and viruses.	n tools, Int	ernet	and	Cyber	2ME301	L 3	T	P 2	C 4
derent and a second and a second and a second as a sec					Crystal Structures and Mechanical Properties, Phase D			a mere	

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Programme Name : Institute of Technology  B. Tech. in Mechan		ngine	eerin	g					
Roll No : 19BME134		J							
Student's Name Shrey D Shah									
2ME302	L.	T	P	С	2ME404	L	Т	P	С
Manufacturing Processes - I	3	-	2	4	Dynamics of Machines	3		2	4
Metal Casting, Metal Joining, Metal Forming, Relate	d Labora	tory V	Vork		Dynamic Force Analysis, Gyroscope, Mechanical Vibr. Damped free vibration, Forced vibration of single systems, Two and multi degree of freedom systems, Ba	deg	ree	damp of f	ed and
2ME303	L	Т	P	C	2MA401		Т	Р	C
Thermodynamics	3	-	-	3	Mathematics for Mechanical Engineering	2	1	-	3
Fundamental Concept, Properties of Gas and Thermodynamics, Second Law of Thermodynamic Gas and Vapour Power Cycle  2ME304	Vapour cs, Entro	, Fir	st La	aw of xergy,	Vector Differential Calculus, Vector Differential Calc Harmonic Analysis, Laplace Transformation of the func Transformation, Solution of Ordinary Differential Equ Transformation, Numerical Methods for solving Root of	tions, ation	Inv	erse	Laplac Laplac
	3		2	4	order Ordinary Differential Equations.				
Theory of Machines					2HS342	L	T	P	С
Links & Mechanism, Motion, Static Force Analysis Cams, Gear Trains, Gears, Related Laboratory Wor	Dynamic	Ford	ce An	alysis,	Principles of Economics	2	-	-	2
2ME305 Mechanics of Solids	L 2	T 1	P -	C 3	Introduction to Economics Micro and Macro Economic Supply Function, Elasticity of Demand and Elasticity Function, short run production function-the law of variance Function, Market and Revenue Function, Price Delincome Accounting, Inflation, Money and Banking, Interest.	of Su able eterm	upply prop inati	ortion on,	oduction - Cos Nationa
Statics and Distributed forces, Friction, Strength a beams and Shafts, Principal stresses and Theo Laboratory Work	ories of	Failu	re, R	elated	2ME405	L	Т	P	C
2HS341	L	Т	Р	С	Introduction to Machine Design	-			
Principles of Management	2	-	-	2	Shafts, Keys and Couplings, Design of Springs, Levers	, Pow	ver S	crew	S
Significance of management, Evolution of Manag management Planning, Organizing, Directing, O Budgeting, role of management Various function	Coordinat	ting,	Conti	rolling,	Semester : V				
Finance, Marketing, HR etc.					2ME501	L	Т	Р	С
2ME306	L	T	Р	С	Machine Design - I	3	*	2	4
Introduction to Computer Aided Drafting Solid modelling, Assembly modelling, Drafting	-	-	2	1	Design philosophy, Designs of welded and riveted joir components under fatigue loading, Design of clutches parts subjected to Buckling, Design of Pressure Vesse Work	and I	brak	es, D	esign
2SP301	L	T	P	C	2ME502	L	Т	P	C
Community Services	-	-	1	-	Automation and Control	3	- 1	2	4
The Student is required to offer his/her services to Organizations for a period of three weeks during to student has to prepare a report of the activities can	the sumn	ner va	acatio	n. The	Control system modelling, Control system analysis, C systems, Sensors and Actuators, Advances in Automa Laboratory Work	Contro tion S	ollers	, Aut	Relate
presentation before a jury.					2ME503	L	Т	F	, С
Semester : IV					Heat and Mass Transfer	3	-	2	4
2ME401 Metrology and Quality Control	L 3	T -	P 2	C 4	Conduction, Heat transfer through extended surface and Condensation, Radiation, Heat Exchangers, N Laboratory Work	s, Co lass	tran	ction sfer,	, Boilir Relate
Linear and Angular Measurements, Measurement of Measurement of Surface Finish, Measurement of	screw th	reads	and	gears,	2EE551 Electrical Machines	L	T	F 2	1
Limits, fits and gauges, Fundamental of Quality, Re	L	T	Р	С	DC Motors: Shunt and series motors, principle, ch	narac	teris	tics,	need
Limits, fits and gauges, Fundamental of Quality, Re 2ME402			2	4	starters, speed control and selection of motor for Induction motors: Principle, types for 3 phase a	nd s	single	e ph	ase,
	3 nensional tory Work	Anal	lysis,	Impact	applications. Transformers: Principle, construction,	and of m type:	var otor s of	for tran	vario
2ME402 Fluid Mechanics and Hydraulic Machines Introduction, Fluid Kinematics and Dynamics, Dim of Jet, Hydraulic Turbines, Pumps, Related Laborat	nensional	Anal	lysis,	Impact C	speed control and electrical braking, selection applications. Transformers: Principle, construction, direct & indirect testing of transformer, voltage regions.	and of m type: ulatio	var notor s of n, c	for tran	vario sforme teristic
2ME402 Fluid Mechanics and Hydraulic Machines Introduction, Fluid Kinematics and Dynamics, Dim of Jet, Hydraulic Turbines, Pumps, Related Laborat  2ME403 Manufacturing Processes - II	nensional tory Work L 3	к Т -	P 2	C 4	speed control and electrical braking, selection applications. Transformers: Principle, construction, direct & indirect testing of transformer, voltage regiparallel operation of transformer. Alternators: Consprinciple of alternators, voltage regulation, determination	and of m type: ulatio truction	var notor s of n, cl on a	for tran harac	vario esforme eteristic operation
2ME402 Fluid Mechanics and Hydraulic Machines Introduction, Fluid Kinematics and Dynamics, Dim of Jet, Hydraulic Turbines, Pumps, Related Laborate 2ME403	nensional tory Work L 3 ce proce	T -	P 2	C 4	speed control and electrical braking, selection applications. Transformers: Principle, construction, direct & indirect testing of transformer, voltage regiparallel operation of transformer. Alternators: Consprinciple of alternators, voltage regulation, determination of alternator.	and of m type: ulatio truction	var notor s of n, cl on a	for tran harac	vario esforme eteristic operation

Overview of Aircraft Industry and Evolution of Flight, Basics of Flight and Aircraft Systems, Principles of Aerodynamics, Flight Mechanics and

Performance

Institute Name

Institute of Technology

Programme Name

B. Tech. in Mechanical Engineering

Roll No

19BME134

Student's Name

Shrev D Shah

The state of the s					
2ICOE51		L	T	P	С
Programmable Logic Controlle	er	2	-	2	3
Introduction, PLC hardware, PLC Communication protocol.	Operation, PLC La	adder Pro	ogran	nming	, PLC

UEIM007 L T P C Financial Management 3 - - 3

BASICS OF FINANCIAL MANAGEMENT Introduction to Financial Management, Role and Functions of the Finance function, Time Value of Money, Basics of Risk and Return, FINANCIAL MARKETS AND INSTRUMENTS The Financial System, Introduction to Financial Markets and Instruments, Sources and Cost of Capital, MAJOR FINANCIAL DECISIONS, The Investment Decision, The Funding Decision, The Distribution of Profit Decision, Introduction to Working Capital Management, Managing Risk, USING SPREADSHEETS IN FINANCE, Introduction to Financial functions in Spreadsheets, Spreadsheet Application Exercises

Semester :	VI			
2ME601	L	Т	Р	С
Energy Systems - I	3	ì	2	4

Refrigeration, Psychrometry and HVAC Systems, IC Engine and its Sub Systems, Compressors, Reciprocating compressor, Centrifugal compressor, Axial flow compressor, Rotary compressors, Related Laboratory Work

Axial now compressor, rotary compressors, related t	Labura	tory v	VUIN		
2ME602	L	Т	P	C	
Machine Design - II	3	7.0	-	3	

Design of power transmission elements, Design of gear boxes, Design and selection of bearings, Design of IC engine components, Design of material handling devices

2MEDE61	L	Т	P	С
Basics of Machine Learning	2	-	2	3

Introduction to Machine Learning, Supervised learning using linear and non linear models, Unsupervised Learning, Support Vector Machines (SVM), Application of Machine Learning in Mechanical Engineering, Related Laboratory Work

2MEDE65	L	Т	Р	С
CNC Technology and Programming	2	-	2	3

Introduction, Manual Part Programming of Turning Center, Manual Part Programming of Machining Center, Computer Assisted Part Programming, Related Laboratory Work

2CSOE78	L	Т	P	С
Scientific Programming	2	1	2	3

Introduction to Computational Science and Applications, Programming in Python- Interpreter and its environment, Object Oriented Programming, Classes and Methods, Encapsulation, Inheritance, Array Computing and Curve Plotting, Vectors and Higher Dimensional Arrays, Matrices, numPy, sciPy and Matplotlib, Python Pandas, Scientific computation using Python

		0		
2HSOE03	L	T	P	C
Media, Culture and Society	3	-	-	3

Theories of Media, Mcdonaldisation, folk/popular practices in India, The emergence of the newspaper and print. The conflict of traditional forms and modern technology, the nation- and the home - persistent themes in Hindi cinema, the post-90s Hindi cinema imagining the family and NRI cultures, issues of modernity and development, discourse of national integration, narrative serials, commercial sponsorship, Women oriented narratives, the mythological, global and regional networks, politics after television, popular music and technology, devotional music.

Semester : VII



#### NAAC ACCREDITED 'A+' GRADE

2ME701	L	T	P	С	
Manufacturing Technology and Management	3		2	4	

Cutting Tools and Cutting Fluids, Theory of Metal Cutting, Jigs and Fixtures, Production Planning and Control, Forecasting and Inventory Management

2ME702	L	Т	Р	С
Energy Systems - II	3	-	de.	3

Vapour and Gas Power Cycles, Thermal and Nuclear Power Plants, Gas Turbine and Combined Cycle Power Plants, Alternative Energy Sources

2MEDE19	L	T	P	C
Operations Research	3		-	3

Introduction to Operation Research, Formulation and Graphical Solution, Simplex Method, Transportation Techniques, Assignment Techniques, Network Analysis for Project Management, Replacement Theory and Queuing Theory

2MEDE21	L	T	P	С
Rapid Prototyping	3	-		3

Introduction, CAD Modelling and Data Processing for RP, RP Systems, Rapid Tooling, Reverse Engineering, Errors in RP Processes and RP Applications

2CLOE29	L	Т	P	С
Project Management	3	-	-	3

Project Selection, Project Life cycle, Project Feasibility, Cost-benefit Analysis, Performance Measurement, Project Planning and Network Techniques: CPM, PERT, Updating network, time-cost trade-off, Manpower planning, Material Management, Inventory Management, Accounting and Financial Management, Financial Statements, Balance Sheet, Ration Analysis, Total Quality Management, Occupational Health and Safety Act, Project Management Information System, Use of Software in Project Management

2CSOE54	L	Т	P	C
Database Management Systems	2	-	2	3

Overview and Architecture of Database systems, Relational Database: Concept and design, SQL Concepts, Normalization, PL/SQL and NOSQL

2ME703	L	Т	Р	С
Minor Project	/	-	4	2

The Student(s) shall carryout project based on one or more of the following aspects — Prototype Design, Product Preparation/ Development, Working Model, Fabrication of Set up, Laboratory Experiments, Process Modification/ Development, Simulation, Software Application/ Development, Integration of Software and Hardware, Data Analysis, Survey etc. The student is required to submit a project report based on the work carried out

2ME704	L	Т	P	С
Summer Internship	_		_	1

The summer internship is aimed at providing opportunity to the students to gain experience in the industries / research institutes for a period of 4 to 6 weeks during break between Semester-VI and Semester-VII. During the summer internship, the students will have the exposure to industrial/ research environment which will help them to develop the competencies required for professional career, interpersonal and human relationship skills

Semester : VIII

L: Lecture T: Tutorial P: Laboratory / Project Work C: Credits

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Institute Name

Institute of Technology

Programme Name : B. Tech. in Mechanical Engineering

Roll No

19BME134

Student's Name

: Shrey D Shah

2ME801

P

C

Major Project / Internship

22 11

The major project will be aligned with the aims of the engineering programme and its areas of specialization and shall be based on the recernt trends in technology, computational techniques, system/ process construction/ fabrication/ production techniques, design methodologies, analytical formulation and solution, etc, The student(s) shall carry out a comprehensive project at relevant Academic/ R&D/ Industrial organization. The aim of internship is to enable students to develop their engineering skills and practice. The students will be placed in industry/ research organization and assessed for academic credit. The internship will be aligned with the aims of the engineering program and its areas of specialization. Students are expected to experience a real-life engineering workplace and understand how their engineering and professional skills and knowledge can be utilized in industry. The student is required to submit a project/internship report based on the work carried out.

Date: 01-Jun-2023

Deputy Registrar (Examination)

