



PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E. G. Dt., A.P. - 533 437

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)
(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)

Ph 08852 - 252233, 34 Website www.pragati.ac.in

A.Y: 2021-22

NEW COURSES INTRODUCED

S.No	Program Code	Program Name	New Courses Introduced	Total No of Courses	Percentage
1	01	B.Tech- CE	9	45	20
2	02	B.Tech- EEE	11	48	22.91
3	03	B.Tech- ME	9	52	17.30
4	04	B.Tech- ECE	12	50	24
5	05	B.Tech- CSE	16	54	29.62
6	44	B.Tech - DS	20	20	100
7	43	B.Tech - AI	18	18	100
8	42	B.Tech - AIML	19	19	100
9	12	B.Tech - IT	31	51	60.78
Overall Percentage of New Courses			145	357	40.61

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PRAGATI ENGINEERING COLLEGE
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* 1-378, ADB ROAD, SURAMPALAM,
Near Peddapuram, E. G. Dt. (AP)-533 437



PRAGATI ENGINEERING COLLEGE

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ADB Road, Surampalem, E.G.Dt. AP - 533437

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)
(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)
Ph: 08852 252233, 34 Website: www.pragati.ac.in

A.Y: 2021-22

LIST OF NEW COURSES INTRODUCED

S.No	Program Code	Program Name	Course Code	Name of the course
1	01	B.Tech- CE	20BE2T01	Total station lab
2			20CE3P01	Community Service Project
3			20CE4S02	Road Safety Audit
4			19HM6T03	Entrepreneurship
5			19BP6T03	Nuclear Science & Technology
6			19EE6T36	Power Safety & Management
7			19ME6T22	Industrial Engineering & Management
8			19EC6T39	Electronic Measurements & Instrumentation
9			19CS6T05	Object oriented Programming through Java
10	02	B.Tech- EEE	20EE3S01	Design of Electrical Circuits using Engineering Software Tools
11			20CS4L03	Python Programming Laboratory
12			20EC4L06	Digital Electronics Laboratory
13			20EC4S03	IoT Applications of Electrical Engineering
14			19EE5T11	Electrical Power Transmission Systems
15			19EC6T27	Digital Signal Processing
16			19EC6L07	Linear and Digital IC Applications Laboratory
17			19EE6T17	Artificial Intelligence Techniques
18			19EC6T10	Internet of Things
19			19BM6T05	Complex Variables and Statistical Methods
20			19BC6T03	Materials Chemistry and Engineering Applications
21	03	B.Tech- ME	20ME3S01	Basics of Applied Robot Control
22			20ME4L07	Drafting and Modelling Laboratory
23			20CS4S08	Numerical Methods through Python
24			19ME5T17	IC Engines and Turbo Machinery
25			19ME5T21	Total Quality Management
26			19ME6T29	Supply Chain Management
27			19EC5T10	Internet of Things
28			19EE6T36	Power Safety and Management
29			19HE6T02	Soft Skills and Interpersonal Communication
30	04	B.Tech- ECE	20CS3L12	OOPS through Java Lab
31			20EC3S01	Interactive Programming
32			20CS4L03	Python Programming Lab
33			20EC4S02	IoT Applications
34			19IT5T06	Operating Systems
35			19EC5T25	Information Theory & Coding
36			19EC5T26	Advanced Computer Architecture

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37			19EC6T34	Multimedia and Communication		
38			19CE6T24	Waste Water Management		
39			19EE6T24	Energy Audit conservation & Management		
40			19ME6T28	Industrial Robotics		
41			19BP6T03	Nuclear Science and Technology		
42	05	B.Tech- CSE	20CS3S01/ 20CS3S02	Applications of Python-NumPy/Web Application Development using Full Stack- Frontend Development- Module- I		
43			20CS4L05	Software Engineering Laboratory		
44			20CS4L06	R Programming Laboratory		
45			20CS4S03/ 20CS4S04	Applications of Python-Pandas/Web Application Development using Full Stack- Frontend Development- Module - II		
46			19CS5T09	Web Application Development using J2EE		
47			19CS5L05	Web Application Development using J2EE Laboratory		
48			19CS6T18	AI Tools and Techniques		
49			19CS6L07	AI Tools and Techniques Laboratory		
50			19EC6L11	Internet of Things Laboratory		
51			19CS5T14	NO SQL databases		
52			19CS5T15	Ethical Hacking		
53			19CS5T16	Functional Programming		
54			19CE6T18	Environmental Impact Assessment and Management		
55			19EE6T24	Energy Audit conservation & Management		
56			19EC6T35	RFID Sensors and Data Acquisition		
57			19HE6T02	Soft Skills and Interpersonal Communication		
58			44	B.Tech - CSE-DS	20BM3T03	Transforms and Vector Calculus
59					20CS3T04	Advanced Data Structures through C
60					20CS3T06	Data Science through Python
61					20IT3T02	Database Management Systems
62	20IT3T03	Mathematical Foundations of Computer Science				
63	20CS3L04	Advanced Data Structures through C Laboratory				
64	20CS3L06	Data Science through Python Laboratory				
65	20IT3L04	Database Management Systems Laboratory				
66	20CS3S03	Mobile App Development through Android				
67	20HM3T06	Essence of Indian Traditional Knowledge				
68	20DS3P01	Community Service Project				
69	20BM4T05	Probability and Statistics				
70	20EC4T12	Computer Organization				
71	20CS4T07	Data Mining				
72	20CS4T10	Java Programming				
73	20HM4T01	Managerial Economics and Financial Analysis				
74	20CS4L10	R Programming Laboratory				
75	20CS4L11	Data Mining using Python Laboratory				
76	20CS4L12	Java Programming Laboratory				
77	20CS4S06	Applications of MongoDB				
78	43	B.Tech - CSE-AI	20HE1T01	Professional Communicative English		
79			20BM1T01	Differential Equations and Numerical		

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80			20BP1102	Applied Chemistry
81			20CS1101	Programming for Problem Solving using C
82			20IT1101	Computer Engineering Workshop
83			20HF1101	Professional Communicative English Laboratory
84			20BP1102	Applied Chemistry Laboratory
85			20CS1101	Programming for Problem Solving using C Laboratory
86			20BE1101	Environmental Science
87			20BM2T02	Linear Algebra and Partial Differential Equations
88			20BC2T02	Applied Physics
89			20EC2T02	Digital Logic Design
90			20CS2T03	Python Programming
91			20IT2T01	Data Structures
92			20BC2L02	Applied Physics Laboratory
93			20CS2L03	Python Programming Laboratory
94			20IT2L02	Data Structures Laboratory
95			20HM2T05	Constitution of India
96			20BM3T03	Transforms and Vector Calculus
97			20CS3T04	Advanced Data Structures through C
98			20AI3T01	Introduction to Artificial Intelligence
99			20IT3T02	Database Management Systems
100			20IT3T03	Mathematical Foundations of Computer Science
101			20CS3L04	Advanced Data Structures through C Laboratory
102			20AI3L01	Introduction to Artificial Intelligence through LISP / PROLOG Laboratory
103			20IT3L04	Database Management Systems Laboratory
104	42	B.Tech - AIML	20AM3S01	Mobile App Development through Android
105			20HM4T06	Essence of Indian Traditional Knowledge
106			20BM4T05	Probability and Statistics
107			20EC4T12	Computer Organization
108			20AM4T01	Data Mining
109			20CS4T07	Java Programming
110			20HM4T01	Managerial Economics and Financial Analysis
111			20CS4L06	R Programming Laboratory
112			20AM4L01	Data Mining using Python Laboratory
113			20CS4L07	Java Programming Laboratory
114			20AI4S01	Applications of Python – Numpy & Pandas
115			20CS3T04	Advanced Data Structures through C
116			20CS3L04	Advanced Data Structures through C Laboratory
117			20IT3L03	Unified Modeling Language Laboratory
118			20IT3S01/ 20IT3S02	Animation – 2D Animation / NoSQL databases
119	12	B.Tech - IT	20BM4T06	Statistics with R Programming
120			20CS4L06	R Programming Laboratory
121			20IT4L05	Operating Systems Laboratory
122			20CS4L07	Java Programming Laboratory

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123	19CS5109	Web Application Development using J2EE
124	19CS5112	Data Warehousing and Data Mining
125	19CS5113	Advanced data structure
126	19CS5114	NO SQL DATABASE
127	19CS5116	FUNCTIONAL PROGRAMMING
128	19IT5107	Computer Graphics
129	19CS5105	Web Application Development using J2EE Laboratory
130	19CS5108	OOAD with UML Laboratory
131	19CS5106	Data Mining Laboratory
132	19IT5106	DevOps Laboratory
133	19CS6T18	AI Tools and Techniques
134	19IT6T08	Cryptography and Network Security
135	19CE6T18	Environmental Impact Assessment and Management
136	19EE6T24	Energy Audit, Conservation and Management
137	19ME6T28	Industrial Robotics
138	19HE6T02	Soft Skills and Interpersonal Communication
139	19CS6T15	Ethical Hacking
140	19CS6T21	Data science
141	19CS6T22	Adhoc&sensor networks
142	19CS6T11	Compiler Design
143	19CS6L07	AI Tools and Techniques Laboratory
144	19IT6L07	Cryptography and Network Security Laboratory
145	19IT6T10	MOOCs** / Industry Courses Approved by Department



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Ph: 08852 252333-34 Website: www.pragati.ac.in

A.Y: 2020-21

NEW COURSES INTRODUCED

S.No	Program Code	Program Name	New Courses Introduced	Total No of Courses	Percentage
1	01	B.Tech- CE	02	36	05.60
2	02	B.Tech- EEE	04	36	11.10
3	03	B.Tech- ME	03	37	08.10
4	04	B.Tech- ECE	04	36	11.10
5	05	B.Tech- CSE	06	36	16.70
6	44	B.Tech - DS	18	18	100.0
7	42	B.Tech - AIML	18	18	100.0
8	12	B.Tech - IT	08	36	22.20
9	54	M.Tech - PEED	01	07	14.30
10	04	M.Tech – CAD CAM	01	07	14.30
11	55	M.Tech - ES	02	07	28.60
12	57	M.Tech - VLSISD	03	07	42.90
13	58	M.Tech-CSE	00	07	00.00
Overall Percentage of New Courses			70	288	24.30

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A.Y: 2020-21

LIST OF NEW COURSES INTRODUCED

S.No	Program Code	Program Name	Course Code	Name of The course
1	01	B.Tech- CE	19CE3P01	Socially Relevant Activity
2			19HM4T06	Essence of Indian Traditional Knowledge
3	02	B.Tech- EEE	20EE1L02	Electrical Engineering Work shop
4			20ME2T03	Basic Civil and Mechanical Engineering
5			20ME2L02	Basic Civil and Mechanical Engineering Laboratory
6			19HM4T06	Essence of Indian Traditional Knowledge
7	03	B.Tech- ME	19BM3T05	Complex Variables and Statistical Methods
8			19ME3P01	Socially Relevant Activity
9			19HM4T06	Essence of Indian Traditional Knowledge
10	04	B.Tech- ECE	19EC3T10	Internet of Things
11			19EC3T03	Switching Theory and Logic Design Lab
12			19HM3T06	Essence of Indian Traditional Knowledge
13	05	B.Tech- CSE	19EC4P01	Socially Relevant Project
14			20IT1L01	Computer Engineering Workshop
15			19CS3T04	Digital Marketing
16			19CS3L03	Digital Marketing Laboratory
17			19HM3T06	Essence of Indian Traditional Knowledge
18			19CS4P01	Socially Relevant Activity
19	44	B.Tech - CSE-DS	19HM4T05	Constitution of India
20			20HE1T01	Professional Communicative English
21			20BM1T01	Differential Equations and Numerical Methods
22			20BC1T02	Applied Chemistry
23			20CS1T01	Programming for Problem Solving using C
24			20IT1L01	Computer Engineering Workshop
25			20HE1L01	Professional Communicative English Laboratory
26			20BC1L02	Applied Chemistry Laboratory
27			20CS1L01	Programming for Problem Solving using C Laboratory
28			20BE1T01	Environmental Science
29			20BM2T02	Linear Algebra and Partial Differential Equations
30			20BP2T02	Applied Physics
31			20EC2T03	Digital Logic Design
32			20CS2T03	Python Programming
33	20IT2T01	Data Structures		
34	20BP2L02	Applied Physics Laboratory		

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34			20BP2L02	Applied Physics Laboratory
35			20CS2L03	Python Programming Laboratory
36			20IT2L02	Data Structures Laboratory
37			20HM2T05	Constitution of India
38			20HE1T01	Professional Communicative English
39			20BM1T01	Differential Equations and Numerical Methods
40			20BP1T02	Applied Chemistry
41			20CS1T01	Programming for Problem Solving using C
42			20IT1L01	Computer Engineering Workshop
43			20HE1L01	Professional Communicative English Laboratory
44			20BP1L02	Applied Chemistry Laboratory
45	42	B.Tech - AIML	20CS1L01	Programming for Problem Solving using C Laboratory
46			20BE1T01	Environmental Science
47			20BM2T02	Linear Algebra and Partial Differential Equations
48			20BC2T02	Applied Physics
49			20EC2T02	Digital Logic Design
50			20CS2T03	Python Programming
51			20IT2T01	Data Structures
52			20BC2L02	Applied Physics Laboratory
53			20CS2L03	Python Programming Laboratory
54			20IT2L02	Data Structures Laboratory
55			20HM2T05	Constitution of India
56			20IT1L01	Computer Engineering Workshop
57			20CS1L01	Programming for Problem Solving using C Laboratory
58			20CS2L03	Python Programming Laboratory
59	12	B.Tech - IT	19HM3T06	Essence of Indian Traditional Knowledge
60			19IT4T05	Scripting Language
61			19CS4T07	Formal Languages and Automata Theory
62			19CS4L04	Object oriented Programming through Java Laboratory
63			19IT4P01	Socially Relevant Activity
64	54	M.Tech - PEED	19053P01	Comprehensive Viva voice
65	04	M.Tech – CAD CAM	19063T08	Product Design and Development
66			19023T07	Embedded Real Time Operating Systems
67	55	M.Tech - ES	19023C01	Comprehensive Viva voice
68			19043T07	Embedded System Design
69	57	M.Tech - VLSISD	19043T08	Testing and Testability
70			19043C01	Comprehensive Viva voice

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Ph: 08852 252233, 34 Website www.pragati.ac.in

A.Y: 2019-20

NEW COURSES INTRODUCED

S.No	Program Code	Program Name	New Courses Introduced	Total No of Courses	Percentage
1	01	B.Tech- CE	01	46	02.17
2	02	B.Tech- EEE	07	40	17.50
3	03	B.Tech- ME	09	38	23.68
4	04	B.Tech- ECE	07	40	17.50
5	05	B.Tech- CSE	06	39	15.38
6	12	B.Tech - IT	29	48	60.42
7	54	M.Tech - PEED	00	12	00.00
8	04	M.Tech – CAD CAM	03	20	15.00
9	55	M.Tech - ES	04	20	20.00
10	57	M.Tech - VLSISD	04	20	20.00
11	58	M.Tech-CSE	01	18	05.56
Overall Percentage of New Courses			71	341	20.82

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Ph: 08852 - 252233, 34 Website: www.pragati.ac.in

A.Y: 2019-20

LIST OF NEW COURSES INTRODUCED

S.No	Program Code	Program Name	Course Code	Name of the course
1	01	B.Tech- CE	19HM2T05	Constitution of India
2			19CS2T02	Fundamentals of Computer Science
3			19HM2T05	Constitution of India
4	02	B.Tech- EEE	16EE7D01	Electrical Machine Modelling and Analysis
5			16EE7D03	Industrial Automation and Control
6			16EE7D07	High Voltage Engineering
7			16EE7D09	Power System Deregulation
8			16EE7S01	Seminar
9			19BM1T01	Linear Algebra and Differential Equations
10			19BM2T02	Numerical Methods and Multivariable calculus
11			19BM2T03	Integral Transforms and Vector calculus
12	03	B.Tech- ME	19BM2T05	Constitution of India
13			16ME7L11	CAD/CFD Lab
14			16ME7L12	CAM/Mechatronics Lab
15			16ME8D08	Thermal Equipment Design
16			16ME8D10	Quality and Reliability Engineering
17			16ME8S01	Seminar
18			19EE1T01	Basic Electrical Engineering
19			19EE1T05	Constitution of India
20	04	B.Tech- ECE	19EC2L01	Electronic Workshop
21			16EC7D01	Digital TV Engineering
22			16EC7D03	System design through Verilog
23			16IT8D19	Web Technology
24			16IT8D20	Python
25			19EE2T02	Basic Electrical and Electronics Engineering
26			19EE2L02	Basic Electrical and Electronics Engineering Lab
27	05	B.Tech- CSE	16CS7T02	Artificial Neural Networks
28			16CS7T03	Software Architecture and Design Pattern
29			16IT8D18	Concurrent and Parallel Programming
30			16ME8D11	Operations Research
31			19HE1T01	Professional Communicative English
32	12	B.Tech - IT	19HE1L01	Professional Communicative English Laboratory-I
33			19CS1L01	Programming for Problem Solving using C Laboratory
34			19HM1T05	Constitution of India

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34			19IM1105	Constitution of India
35			19BM2102	Numerical Methods and Multivariable Calculus
36			19BM2103	Integral Transforms and Vector Calculus
37			19EE2101	Data Structures
38			19EE2102	Basic Electrical and Electronics Engineering
39			19EE2101	Basic Electrical and Electronics Engineering Laboratory
40			16IT7T17	Open Source Software
41			16IT7D04	Design Patterns
42			16IT7D05	Software Quality Assurance
43			16IT7D06	Computer Graphics
44			16IT7D07	Image Processing
45			16IT7D08	Human Computer Interaction
46			16IT7D09	Machine Learning
47			16IT7D10	Decision Support System
48			16IT7D11	Artificial Neural Networks
49			16IT7D12	E-Commerce
50			16IT7L11	Open Source Software Lab
51			16IT8T18	Cloud Computing
52			16IT8T19	Cyber Security
53			16IT8T20	Data Warehousing and Business Intelligence
54			16IT8D13	Agile Methodologies
55			16IT8D14	Internet Of Things
56			16IT8D15	Computer Vision
57			16IT8D16	Multimedia Programming
58			16IT8D17	Social Networking & Semantic Web
59			16IT8D18	Concurrent & Parallel Programming
60			19062D09	Flexible Manufacturing System
61	04	M.Tech – CAD CAM	19062D11	Rapid Prototyping
62			19062L02	Advanced CAM lab
63			19021T03	Embedded - C
64	55	M.Tech - ES	19021D05	Soft Computing Techniques
65			19022D07	CMOS Mixed Signal Circuit Design
66			19022D11	Wireless LANs and PANs
67			19041T01	Digital System Design
68	57	M.Tech - VLSISD	19041T02	VLSI technology and design
69			19042D07	CAD for VLSI
70			19042D10	System on Chip Design
71	58	M.Tech-CSE	19012D09	Software Testing Methodologies

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Ph: 08862-252331-34 Website: www.pragati.ac.in

A.Y: 2018-19

NEW COURSES INTRODUCED

S.No	Program Code	Program Name	New Courses Introduced	Total No of Courses	Percentage
1	01	B.Tech- CE	07	23	30.43
2	02	B.Tech- EEE	07	24	29.17
3	03	B.Tech- ME	02	23	08.70
4	04	B.Tech- ECE	07	24	29.17
5	05	B.Tech- CSE	10	24	41.67
6	12	B.Tech - IT	09	23	39.13
Overall Percentage of New Courses			42	141	29.78

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A.Y: 2018-19

LIST OF NEW COURSES INTRODUCED

S.No	Program Code	Program Name	Course Code	Name of the course
1	01	B.Tech- CE	16CE5M01	MOOCS
2			16EC6E03	Electronics Instrumentation
3			16CS6E04	Data Base Management system
4			16EE6E05	Alternative Energy systems
5			16CE6E01	Waste Water Management
6			16CE6E02	Fundamentals of Liquefied Natural Gas
7			16CE6E03	Green fuel Technology
8			02	B.Tech- EEE
9	16CS5T12	Data structures		
10	16CS5L06	Data structures Lab		
11	16EE5M01	MOOCS		
12	16EE6E01	Neural Networks and Fuzzy Logic		
13	16ME6E01	Robotics		
14	16EE6P01	Mini Project / Term Paper		
15	03	B.Tech- ME		
16			16ME5M01	MOOCS
17	04	B.Tech- ECE	16EC5M01	MOOCS
18			16CS6E06	Oops through java
19			16CS6E07	Data Mining
20			16ME6E01	Robotics
21			16EE6E03	Power Electronics
22			16EE6E04	MEMS
23			16EC6P01	Mini Project
24			05	B.Tech- CSE
25	16EC5L07	Microprocessors and Interfacing Lab		
26	16BH5T17	Professional Ethics and Human Values		
27	16CS5M01	MOOCS		
28	16CS6E01	Internet of things		
29	16CS6E02	Cyber security		
30	16EC6E01	Digital Signal Processing		
31	16ME6E01	Robotics		
32	16CS6L08	Data Warehousing and Mining Lab		
33	16CS6P01	Mini Project/ Term Paper		
34	12	B.Tech - IT	16IT5T10	Unix and Shell Programming
35			16IT5T11	Object oriented analysis & design using UML
36			16BH5T17	Professional Ethics and Human Values
37			16IT5M01	MOOCS
38			16IT6E01	Artificial Intelligence
39			16IT6E02	Management Information System
40			16EC6E01	Digital Signal Processing
41			16ME6E01	Robotics
42			16ME6E02	Operations Research


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(Recognized by UGC Under Sections 2(D) and 12 (B) of UGC act, 1956)

Ph: 08852 252233, 34 Website: www.pragati.ac.in

A.Y: 2017-18

NEW COURSES INTRODUCED

S.No	Program Code	Program Name	New Courses Introduced	Total No of Courses	Percentage
1	01	B.Tech- CE	01	19	05.26
2	02	B.Tech- EEE	00	16	00.00
3	03	B.Tech- ME	00	16	00.00
4	04	B.Tech- ECE	01	16	06.25
5	05	B.Tech- CSE	04	16	25.00
6	12	B.Tech - IT	05	17	29.41
Overall Percentage of New Courses			11	100	11.00


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A.Y: 2017-18

LIST OF NEW COURSES INTRODUCED

S.No	Program Code	Program Name	Course Code	Name of the course
1	01	B.Tech- CE	16BH4T15	Management science
2	04	B.Tech- ECE	16EC3T06	Network Analysis and Synthesis
3	05	B.Tech- CSE	16BH3T07	Statistics with R Programming
4			16IT3T02	Python Programming
5			16IT3L02	Python Programming Lab
6			16CS4T08	Computer graphics
7	12	B.Tech - IT	16BH3T07	Statistics with R Programming
8			16IT3T02	Python Programming
9			16CS3T03	Data Structure through C++
10			16CS3L02	Data Structure through C++ Lab
11			16IT3L02	Python Programming Lab


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