

KRISHNA UNIVERSITY



TWO WEEKS VALUE ADDED COURSE

CLASSICAL MECHANICS [VAC-MAT-CM]

Duration: Two Weeks

DEPT OF MATHEMATICS

**KRISHNA UNIVERSITY-DR.M.R.APPA ROW COLLEGE OF POST
GRADUATION STUDIES-NUZVID**

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KRU-Dr. MR APPARAO CPGS /Nuzvid/Applied Mathematics VAC/2022-23-1

Date: 20.06.2022

From
Prof. Hymavathi T
Head
Department of Applied Mathematics
KRU Dr. MR Appa Row College of PG Studies,
Nuzvid.

To
The Registrar,
Krishna University,
Machilipatnam

(Through Proper Channel)

Sub: Submission of Proposal for Value Added Course-Department of Applied Mathematics-IV Sem & I Sem Applied Mathematics- IV Sem Mathematics- Request for approval- Reg.

Sir,

With respect to the subject cited above, I am herewith submitting the proposals of Value Added Courses to conduct in the Department of Applied Mathematics, KRU Dr. MR Appa Row College of PG studies, Nuzvid for IV & I Semesters of Applied Mathematics and IV Semester of Mathematics Course. Also request you to sanction an amount of Rs2000 towards the DTP and other contingency like files, papers etc to conduct the THREE Courses. I request you to approve the same at the earliest. Request you to do the needful in this regard.

Thanking you.

Yours faithfully,

Hymavathi T
20/6/22

(Hymavathi T)

Forwarded for
Consideration and approval

[Signature]
27/06/2022
PRINCIPAL (HO)
Krishna University
Dr. MR APPARAO College of
Graduation Studies



KRISHNA UNIVERSITY

Prof. V.Venkatramu, Ph.D.,
Principal (w)
Dr.M.R. APPA ROW College of P G Studies,
Nuzvid



NUZVID -521201
Krishna District, Andhra Pradesh
(O) 9154281369
E-mail: krepgezd@gmail.com
Website: www.krishnauniversity.ac.in

No/KRUCPGS/VAC/2022/49

Date: 25-06-2022

CIRCULAR

It is to inform that the syllabus for value added courses for I and IV semester students submitted by the HoD /Coordinators of the departments of Applied Mathematics, Statistics, Physics, Biochemistry, and Commerce & Management are approved. Hence, the HoD /Coordinators are requested to complete the value added courses as per the guide lines of the University.




Principal (w)
Krishna University
Dr.M.R.APPAROW College of
Post Graduation Studies
NUZVID

Copy to:

All the HoDs/Coordinators with a request to circulate among VAC coordinators and resource persons.
PS to Hon'ble Vice-Chancellor
PA to Registrar
File.

KRISHNA UNIVERSITY

Dr. T.HYMAVATHI M.Sc., M.Phil, Ph.D.
Professor & Head
Department of Applied Mathematics
Krishna University Dr.M.R. APPA ROW CPGS
Nuzvid-521201, Krishna Dist., A.P.



Mobile: 9849426579
Email: talla.hymavathianur@gmail.com

Academic Year: 2021-22

Date: 25-06-2022

CIRCULAR

All the Students of II year M.Sc Mathematics are here by informed that a Two week value added course on Classical Mechanics is being conducted from 27-06-2022 to 14-07-2022. The Interested candidates may enroll/register for the value added course on or before 25-06-2022. For further details of the course please approach the course coordinator.

(T.Hymavathi)
Head & Course Coordinator

V. Anushe.

V. Suvarna Rani

N. Suntha

K. Rajitha

K. Sowani

A. Saralwathi

ch. Nagamallensar Rao

D.v. Bhargav.

KRISHNA UNIVERSITY-DR.M.R.APPA ROW COLLEGE OF POST
GRADUATION STUDIES-NUZVID

DEPT OF APPLIED MATHEMATICS

TWO WEEK VALUE ADDED COURSE

Title of the course: Two Week Value Added Course on Classical Mechanics

Duration: Total: Two weeks

Resource Faculty: Dr. U. Bindu Madhavi

Coordinator: Prof Hymavathi T

Year/Batch: II Year/IV Semester Mathematics

SYLLABUS

Course Learning Objectives:

This course helps to describe basic definitions of conservative and non-conservative systems. Students able to learn the Lagrange's equations of motion, Hamilton's Principle and various Canonical transformations

UNIT - I (7 hrs)

Generalized coordinates, Velocities, Forces, Holonomic and non-holonomic systems, conservative and non-conservative systems, Lagrange's equations of motion of holonomic (non-holonomic) and conservative (non-conservative) systems.

UNIT - II (8 hrs)

Hamilton's principle for holonomic (non-holonomic) and conservative (non-conservative) systems from Lagrange's equations of motion, Cyclic coordinates, Conservation theorems, Canonical Transformations, Jacobi's theorem, Types of canonical transformation equations

Text Book:

1. "Text Book of Dynamics" by F.Chorlton, CBS Publishing and distributions, Second edition.
2. "An Elementary Treatise on the Dynamics of a Particle and of rigid bodies" by S.L.Loney, MacMillan Co., of India Ltd., Metric Edition (1975).
3. "Classical Mechanics" by H.Goldstein, Narosa Publishing House, Second Edition (1985).



PRINCIPAL
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NUZVID

20/10/22



KRISHNA UNIVERSITY Dr.M.R.APPA ROW COLLEGE OF PG STUDIES,NUZVID
DEPARTMENT OF APPLIED MATHEMATICS

VALUE ADDED COURSE

Two Week Value Added Course in "CLASSICAL MECHANICS" to the students of **IVth**
sem (AY.2019-2020)

From 27-06-2022 to 14-07-2022

STUDENT ENROLLMENT FORM

S.No.	Name of the Student	Regd. No	Signature of the student
01	Konne Rajitha	Y20MAT245006	K. Rajitha
02	Angidi Saraswathi	Y20MAT245001	A. Saraswathi
03	V. Suvarna Rani	Y20MAT245011	V. Suvarna Rani
04	Kota Saravani	Y20MAT245004	K. Saravani
05	M. Sunitha	Y20MAT245009	M. Sunitha
06	V. Santhoshi Anuha	Y20MAT245012	V. Santhoshi Anuha
07	Ch. Lagamalleswari	Y20MAT245002	Ch. Lagamalleswari
08	D. Venkata Bhargav	Y20MAT245003	D.V. Bhargav.

U. Bindu Madhavi

Signature of Resource person

CH.
25/6/22

Signature of co-ordinator &
Head



KRISHNA UNIVERSITY Dr.M.R.APPA ROW COLLEGE OF PG STUDIES,NUZVID
DEPARTMENT OF APPLIED MATHEMATICS

M.Sc. Mathematics

TWO WEEK VALUE ADDED COURSE ON CLASSICAL MECHANICS

From : 27-6-2022 To 14-07-2022

Academic Year : 2021-22

Class & Semester : II M.Sc. IV Sem

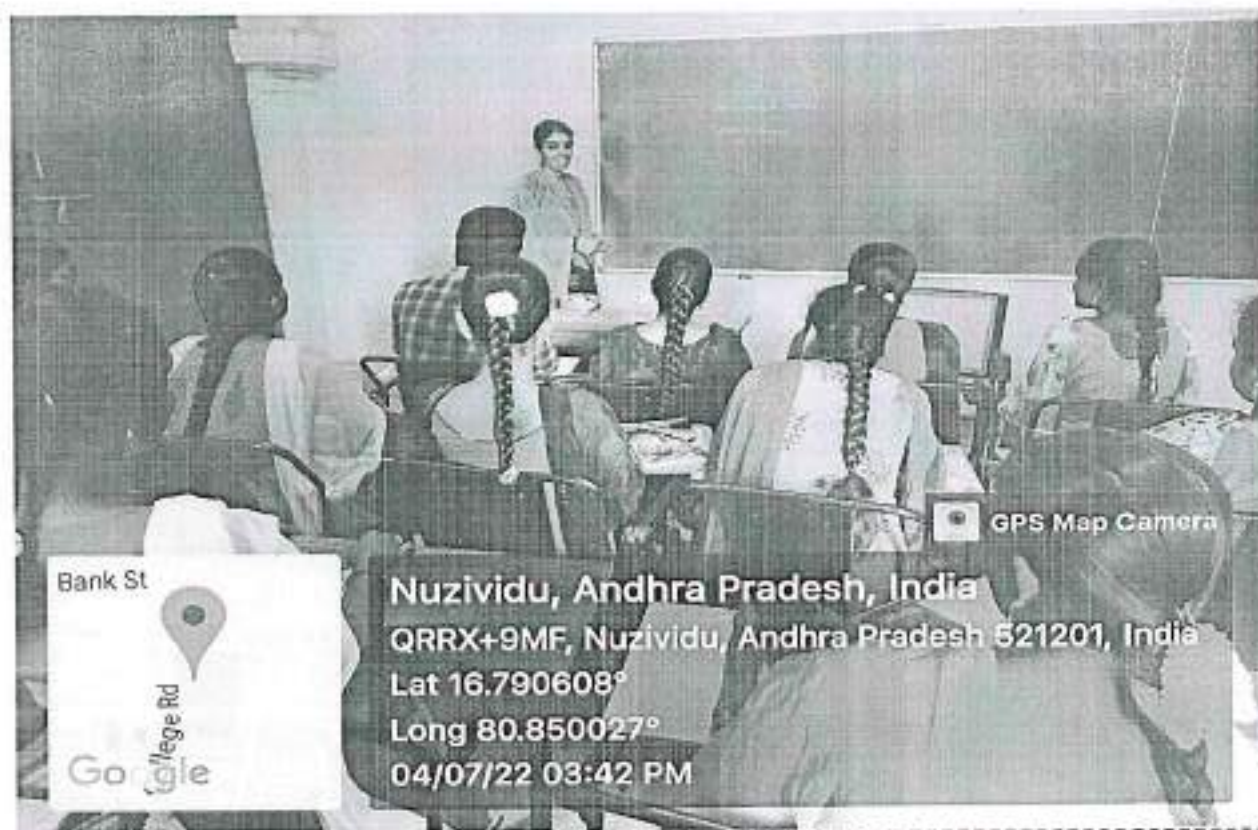
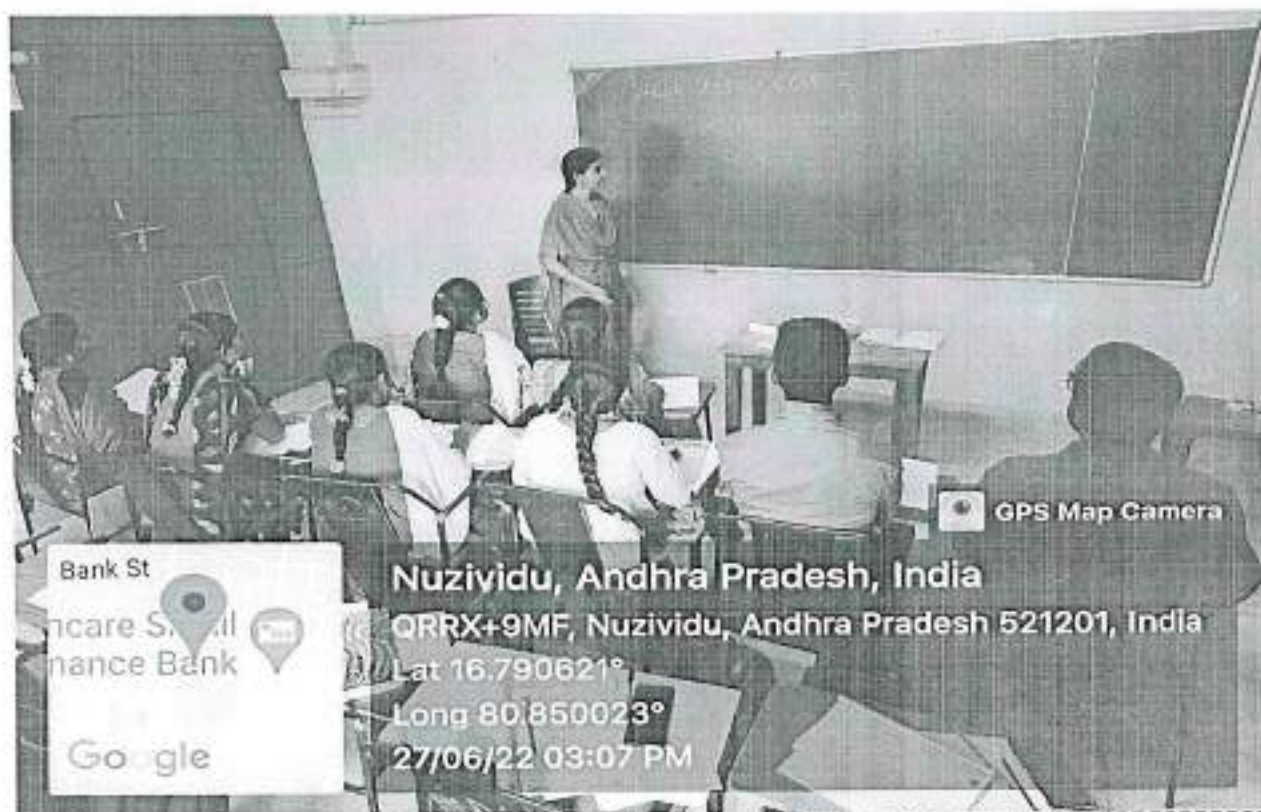
Resource Persons : Dr. U.Bindu Madhavi

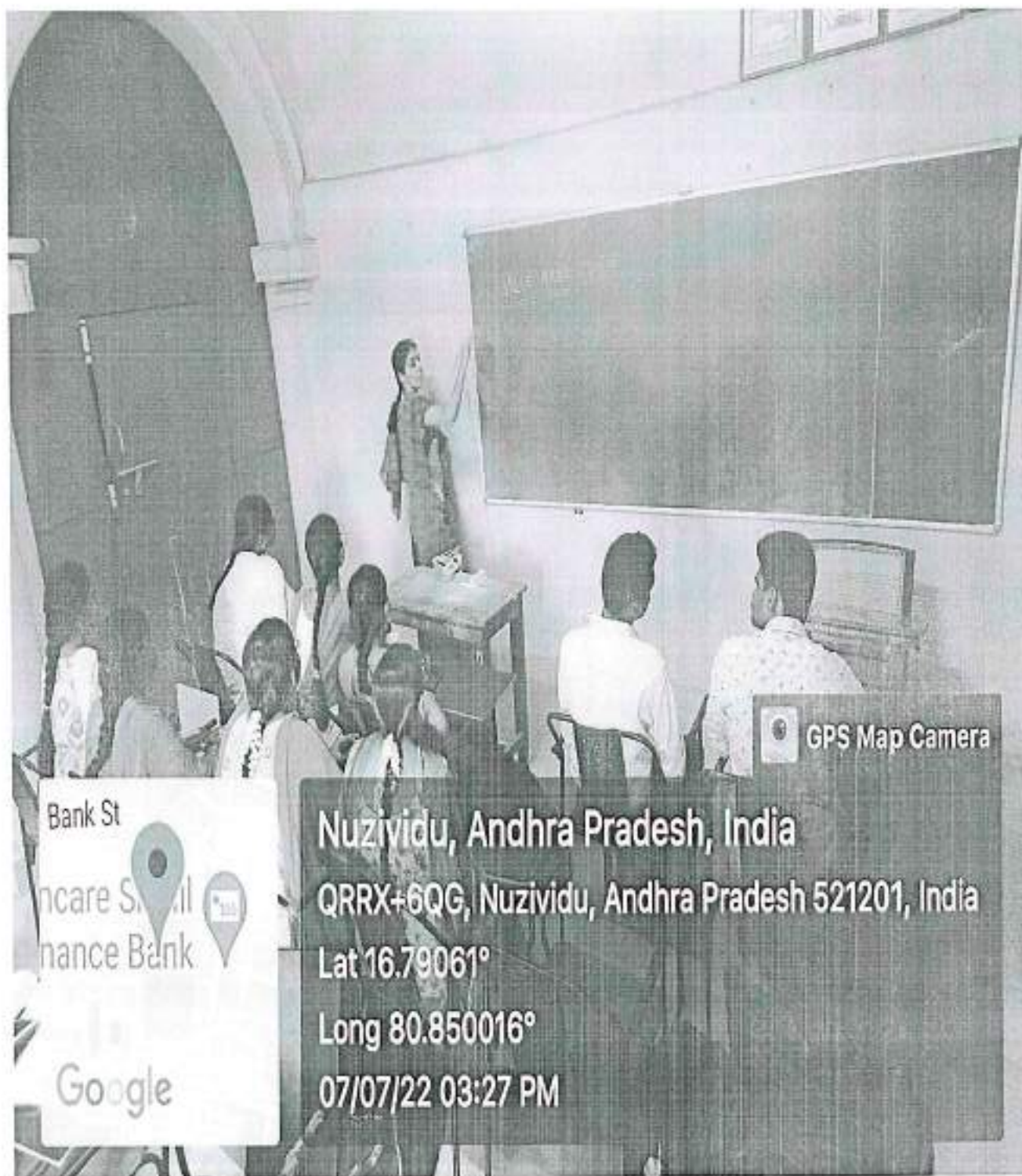
Duration: ~~15 Hours~~/ Two week

Course Coordinator : Prof T. Hymavathi, Head of the Department.

Periods	I	II	III		IV	V	VI
Time	10:00AM - 11:00AM	11:00AM- 12:00 Noon	12:00Noon 01:00PM	L U N C H	1:30PM- 2:30PM	2:30PM- 3:30PM	3:30PM- 4:30PM
Monday	VAC-CM (UBM)	-	-		-	-	VAC-CM (UBM)
Tuesday	-	-	-		-	-	-
Wednesday	-	-	-	B R E A K			VAC-CM (UBM)
Thursday	-	-			-	VAC-CM (UBM)	VAC-CM (UBM)
Friday	-	-	-				
Saturday	-	VAC-CM (UBM)	-			-	


(T.Hymavathi)
Course Coordinator





GPS Map Camera

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Nuzividu, Andhra Pradesh, India

QRRX+6QG, Nuzividu, Andhra Pradesh 521201, India

Lat 16.79061°

Long 80.850016°

07/07/22 03:27 PM

**KRISHNA UNIVERSITY-DR.M.R.APPA ROW COLLEGE OF POST
GRADUATION STUDIES-NUZVID**

DEPT OF MATHEMATICS

Value Added course

Semester-IV

Sub: **CLASSICAL MECHANICS**

Time: 1 hour

Code: VAC-MAT-CM

Max. Marks: 20

Answer TWO questions. Each question carries 10 marks

2 x 10 = 20Marks

1. (A) Derive lagranges equations of motion for holonomic non conservative dynamical system.
(or)
(B) Explain theory of small oscillations.
2. (A) Write Hamiltons equation of motion of simple pendulum.
(or)
(B) Write hamiltons equations of motion of holonomic conservative system.



KRISHNA UNIVERSITY Dr.M.R.APPA ROW COLLEGE OF PG STUDIES,NUZVID
DEPARTMENT OF APPLIED MATHEMATICS
M.Sc., Mathematics second Year
TWO WEEKS VALUE ADDED COURSE ON CLASSICAL MECHANICS

Resource Person: Dr. U. Bindu Madhavi

Course Coordinator: Prof. T. Hymavathi

Awards Sheet for Value Added Course –Classical Mechanics

Maximum Marks -20

S. No.	Name of the Student	Regd. No.	Max Marks	Marks Secured
1	A.Saraswathi	Y20MAT245001	20	16
2	Ch.Naga Malleswara Rao	Y20MAT245002	20	17
3	D. Venkata Bhargav	Y20MAT245003	20	17
4	K.Sravani	Y20MAT245004	20	18
5	K.Lakshmi Tirupathamma	Y20MAT245005	20	A
6	K.Rajitha	Y20MAT245006	20	19
7	M.Padma	Y20MAT245008	20	A
8	N. Sunitha	Y20MAT245009	20	19
9	V.Suvarna Rani	Y20MAT245011	20	18
10	V.Santhoshi Anusha	Y20MAT245012	20	18

U. Bindu Madhavi
Signature of the Resource Person

Dr. T. Hymavathi
Signature of Coordinator & Head

A BRIEF REPORT

- Department of Mathematics had organized a Two Week Value Added Course in " Classical Mechanics " to the students of IVth sem (AY.2019-2020)
- The program is conducted after the regular class work is over.
- The duration of the class is one & two hour and was conducted for 15 Days.
- 5students participated in the program.
- Students were supplied with the necessary study material
- At the end of the programme, test was conducted and it was evaluated.
- Certificates were issued to the *qualified students*
- Dr.U.Bindu Madhavi is the resource person



KRISHNA UNIVERSITY :: MACHILIPATNAM

**Dr.M.R.APPAROW College of Post
Graduation Studies, Nuzvid**

DEPARTMENT OF APPLIED MATHEMATICS

CERTIFICATE

This is to certify that Mr/Ms/Mrs of M.Sc
Mathematics, Dr.M.R.APPAROW College of PG Studies, Nuzvid has participated in
the "Two Week Value Added Course on "Classical Mechanics", organised by the
Department of Applied Mathematics, Krishna University, Dr.M.R.APPAROW
College of PG Studies, Nuzvid, Andhra Pradesh from 27-06-2022 to 14-07-2022.

Head & Course Coordinator

Principal



KRISHNA UNIVERSITY

CERTIFICATE

This is to certify that

K. Raditha

had participated in the Two Week Valued Added Course "Classical Mechanics" held on 27.06.2022 by
Department of Mathematics, Krishna University-Dr.M.R.Appa Row College of Post Graduation Studies,Nuzvid

K. Raditha

HEAD

[Signature]

PRINCIPAL

Krishna University
Dr.M.R.APPAROW College of
Post Graduation Studies
NUZVID



KRISHNA UNIVERSITY

CERTIFICATE

This is to certify that

Ch. Naga Malleswar Rao

had participated in the Two Week Valued Added Course "Classical Mechanics" held on 27.06.2022 by Department of Mathematics, Krishna University-Dr.M.R.Appa Row College of Post Graduation Studies,Nuzvid

T. T. R. R.

HEAD

[Signature]

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Krishna University
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