



ANDHRA LOYOLA COLLEGE

AUTONOMOUS :: VIJAYAWADA - 520 008

Established : 1954

A CHRISTIAN MINORITY COLLEGE WITH CONSTITUTIONALLY PROVIDED RIGHT OF ADMISSION
(AN ISO 14001 : 2015 INSTITUTION)

THE ONLY COLLEGE IN BOTH THE TELUGU STATES TO HAVE BEEN RANKED AMONG
THE TOP 150 COLLEGES BY NIRF SINCE THE INCEPTION OF THE RANKING IN 2017

SELECTED UNDER THE STAR COLLEGE SCHEME OF DBT AND FIST PROGRAMME OF DST, GOVT.OF INDIA
SELECTED FOR ENHANCEMENT OF QUALITY AND EXCELLENCE UNDER RUSA BY MHRD, GOVT.OF INDIA

2.3.3 Preparation and Adherence to Academic Calendar and Teaching Plans at Andhra Loyola College (Autonomous), Vijayawada

A College Dedicated to All-Round Development of its Students





Andhra Loyola College (Autonomous)

VIJAYAWADA-520 008.

Accredited in III Cycle at A* Grade with a CGPA of 3.66 / 4.00

Web: www.andhraloyolacollege.ac.in e-mail: contactalc@gmail.com

STD	: 0866
Main Off.	: 2476082
Inter	: 2476965
Degree	: 2481907
P.G.	: 2474902
CoE	: 2473251
Fax (Principal)	: 2474531
Fax (Correspondent)	: 2486084

Preparation and Adherence to Academic Calendar and Teaching Plans at Andhra Loyola College (Autonomous), Vijayawada

Preparation and Adherence of Academic Calendar:

Andhra Loyola College meticulously prepares an academic calendar every year to strategically plan and organize both academic and administrative activities. The academic calendar serves several vital purposes:

Comprehensive Planning: It outlines the academic schedule for the entire year, providing detailed information on examination dates, departmental activities, field trips, public holidays, festivals, and other important events. This helps in ensuring that all stakeholders are well-informed and can plan their activities accordingly.

Operational Efficiency: The calendar acts as a blueprint that guides faculty, students, and staff on the number of working days in a semester. This is crucial for preparing timetables and ensuring that the curriculum is covered within the stipulated time frame.

Clear Communication: By detailing the academic schedule, the calendar facilitates clear communication among all members of the college community, reducing uncertainties and helping everyone align their responsibilities and expectations.

Holistic Development: Besides academic activities, the calendar also includes co-curricular and extracurricular activities, ensuring a balanced development approach that integrates learning with overall personality development.

Preparation and Adherence of Teaching Plan:

Each faculty member at Andhra Loyola College is responsible for creating a detailed teaching plan for their respective subjects, typically spanning 30 hours. This plan includes:

Structured Curriculum Delivery: The teaching plan divides the 30 hours into segments allocated for classroom teaching, case studies, role plays, workshops, seminars, and lab sessions. This structured approach ensures that all aspects of the subject are covered comprehensively.

Balanced Learning Activities: The plan is designed to integrate various teaching methodologies, promoting a mix of communicative learning and task-based learning activities. This approach caters to the diverse learning needs of students, facilitating both theoretical understanding and practical application.

Continuous Monitoring: The Head of the Department (HOD) plays a crucial role in monitoring the adherence to the teaching plan. Regular checks and feedback mechanisms are in place to ensure that the faculty follows the plan and completes the course within the specified time frame.

Adaptability and Improvement: While adherence to the teaching plan is critical, there is also room for adaptability. Faculty can make necessary adjustments based on the progress of the class and feedback from students, ensuring that the teaching methods remain effective and relevant.

By preparing and adhering to both the academic calendar and detailed teaching plans, Andhra Loyola College ensures a well-organized, efficient, and holistic educational experience. This systematic approach not only enhances the quality of education but also fosters a conducive environment for learning and development.



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SELECTED FOR

MODEL ANNUAL CURRICULAR PLAN

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Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: II B. Sc (NML)

Year: 2020-2021

Title of the Paper: Thermal Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	February			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	-----	Curriculum/	syllabus	Model	paper	-----					
2	2 nd Week	Thermodynamics indicator diagram work processes	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	

3	3 rd Week	First law applications reversible and irreversible processes	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Carnot's engine theorem efficiency	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	March			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Second law thermodynamic scale	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Entropy concept changes	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Entropy-temperature diagrams steam	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Maxwell's relations derivations	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	April			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Specific heats relations ratio and difference	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Joule-Thomson effect experiment derivation	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Postulates of Kinetic theory of gases mean free path	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Maxwell's distribution law molecular speeds	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	May			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	-----	Student's	Preparation	for exams	-----		-----			-----	
2	2 nd Week	-----	Student's	Preparation	for exams	-----		-----			-----	
3	3 rd Week	-----	Student's	Preparation	for exams	-----		-----			-----	
4	4 th Week	-----	Student's	Preparation	for exams	-----		-----			-----	

ANDHRA LOYOLA COLLEGE (AUTONOMOUS) :: VIJAYAWADA - 8
Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: II B. Sc (NML) Year: 2020-2021 Title of the Paper: Thermal Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	June			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Law of Equipartition of energy Relation between the velocities	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Transport phenomena	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Viscosity Coefficient of viscosity	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Thermal conduction Coefficient of Thermal conduction	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

ANDHRA LOYOLA COLLEGE (AUTONOMOUS) :: VIJAYAWADA - 8
Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: II B. Sc (NML) Year: 2020-2021 Title of the Paper: Thermal Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	July			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Diffusion, Specific heat of gases	Study Material/Web Resources	Teaching	4 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
2	2 nd Week	-----	Student's	Preparation	for exams	Practical Exam	duty	-----				
3	3 rd Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				
4	4 th Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				

ANDHRA LOYOLA COLLEGE (AUTONOMOUS) :: VIJAYAWADA - 8
Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: III B. Sc (DML & DP)

Year: 2020-2021

Title of the Paper: Atomic, Molecular and Nuclear Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	August			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	-----	-----	-----		-----			-----		-----		
2	-----	-----	-----		-----			-----		-----		
3	3 rd Week	-----	Curriculum/	syllabus	Model	paper	-----					
4	4 th Week	Vector atom model, Quantum numbers	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	

ANDHRA LOYOLA COLLEGE (AUTONOMOUS) :: VIJAYAWADA - 8
Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: III B. Sc. (DML & DP)

Year: 2020-2021

Title of the Paper: Atomic, Molecular and Nuclear Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	September			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	L-S & J-J Coupling schemes	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
2	2 nd Week	Zeeman effect Theory, Expression for Zeeman shift	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
3	3 rd Week	Raman effect, Applications	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
4	4 th Week	De-Broglie hypothesis Davison & Germer experiment	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	

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Class: III B. Sc (DML & DP)

Year: 2020-2021

Title of the Paper: Atomic, Molecular and Nuclear Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	October			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Schrödinger's equations Derivations	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
2	2 nd Week	Application to one dimensional box, Potential Barrier	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
3	3 rd Week	Heisenberg's uncertainty Principle	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
4	4 th Week	Electron Microscope Experimental setup	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	

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Class: III B. Sc (DML & DP)

Year: 2020-2021

Title of the Paper: Atomic, Molecular and Nuclear Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	November			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Problem Solving	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
2	2 nd Week	Problem Solving Particle in a box	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
3	3 rd Week	Properties of Nucleus, Mass defect, B.E, Semi-empirical mass formula	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
4	4 th Week	Liquid drop model Beta rays, Beta-ray spectrum	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	

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Name of the Lecturer: Dr. M. Chimpiri Rao

Class: III B. Sc (DML & DP)

Year: 2020-2021

Title of the Paper: Atomic, Molecular and Nuclear Physics

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	December			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Gamma rays, pair production Crystallography, Bragg's law	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
2	2 nd Week	Superconductivity, BCS Theory, Type-I & Type-II Applications	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
3	3 rd Week	All important questions revision, Different problem Solving, Assignments	Study Material/Web Resources	Teaching	6 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
4	4 th Week	-----	Student's	Preparation	for exams	Practical Exam	duty	-----				

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S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	January			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				
2	2 nd Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				
3	3 rd Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				
4	4 th Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				

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Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: I B. Sc (APM) Year: 2020-2021 Title of the Paper: Solar Energy (SDC)

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	November			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	-----	Curriculum/	syllabus	Model	paper	-----					
2	2 nd Week	Solar Radiation Introduction	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Solar Radiation Geometry	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Solar Radiation Measurements	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

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Department: Physics

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Class: I B. Sc (APM) Year: 2020-2021 Title of the Paper: Solar Energy (SDC)

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	December			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Solar Energy Storage Systems	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Solar Pond Applications	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Solar Thermal Systems	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Types of Concentrating Collectors	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

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	January			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Solar Thermal Systems Power Generation	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Solar Cooking	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Water Heating	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Solar Distillation	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

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Departmental Annual Curricular Plan – Lecturer Wise

Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: I B. Sc (APM) Year: 2020-2021 Title of the Paper: Solar Energy (SDC)

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	February			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Solar Green Houses	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Solar Photovoltaic Systems	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Photoconduction	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Solar Cell Characteristics -I-V Characteristics	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

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Class: I B. Sc (APM) Year: 2020-2021 Title of the Paper: Solar Energy (SDC)

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	March			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Solar Cell Design Considerations	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Emerging solar Cell technologies	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Solar Cell, Module and Array Construction	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Photovoltaic applications Battery chargers	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

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Department: Physics

Name of the Lecturer: Dr. M. Chimpiri Rao

Class: I B. Sc (APM) Year: 2020-2021 Title of the Paper: Solar Energy (SDC)

S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	May			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	-----	Student's	Preparation	for exams	-----		-----			-----	
2	2 nd Week	-----	Student's	Preparation	for exams	-----		-----			-----	
3	3 rd Week	-----	Student's	Preparation	for exams	-----		-----			-----	
4	4 th Week	-----	Student's	Preparation	for exams	-----		-----			-----	

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S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	June			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Domestic lighting and Street lighting	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Problem Solving	1 Hour	Conducted	-----	
2	2 nd Week	Water pumping	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Seminar	1 Hour	Conducted	-----	
3	3 rd Week	Village Power	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Quiz	1 Hour	Conducted	-----	
4	4 th Week	Applications	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	

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S.No.	Month & Week	Topic	Additional input	Curricular Activity				Co- Curricular Activity				Remarks
	July			Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date	
1	1 st Week	Applications	Study Material/Web Resources	Teaching	2 Hours	Conducted	-----	Interaction	1 Hour	Conducted	-----	
2	2 nd Week	-----	Student's	Preparation	for exams	End Exams	duty	-----				
3	3 rd Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				
4	4 th Week	-----	Student's	Preparation	for exams	Invigilation	duty	-----				


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2.3.3 ACADEMIC CALENDER

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Preparation and Adherence to Academic Calendar and Teaching Plans at Andhra Loyola College (Autonomous), Vijayawada

YEAR WISE ACADEMIC CALENDAR

1. 2022-2023

<https://www.andhraloyolacollege.ac.in/images/116c113baf800f1350e3885ae4d0f902.pdf>

2. 2021-2022

<https://www.andhraloyolacollege.ac.in/images/c00bfd033435b351db17a06a59d7fb75.pdf>

3. 2020-2021

<https://www.andhraloyolacollege.ac.in/images/7482561ef1b68e2a137ea1813608a5da.pdf>

4. 2019-2020

<https://www.andhraloyolacollege.ac.in/images/8ba4a8f7ff64e13c1bd0176148a86fb6.pdf>

5. 2018-2019

<https://www.andhraloyolacollege.ac.in/images/d7bb995c970bc7eeef2cb6b55c36e207.pdf>


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