

ANDHRA CHRISTIAN COLLEGE, GUNTUR  
Department of Chemistry  
Seminar Report

**Topic: Optical Isomerism in Coordination Complexes**

**Date: 03 – 02 – 2021**

**Introduction:** The department of chemistry, Andhra Christian College, Guntur, organised a seminar on Optical isomerism in coordination complexes. Dr. K. Nirmala Jyothi, HOD of Chemistry, J.M.J. college, Tenali, was invited as the resource person. The seminar was convened by Dr.N.J.Solomon Babu, Head of the department of chemistry.

**Objectives of the seminar:** The primary objectives of the seminar are,

1. To enlighten the students the basic concepts of optical isomerism and its applications in coordination complexes.
2. To have an exhaustive discussion on the topic, with illustrations.
3. To bring awareness among the students on the scope of the subject and possible areas of research.

**Seminar Proceedings:** The seminar began in J.D.Seelam seminar hall by 11 A.M. Dr.N.J.Solomon Babu, HOD of chemistry, introduced the theme of the seminar. Mrs.P.Anitha Pranuthi introduced the resource person of the day. Dr. K. Nirmala Jyothi gave extensive talk on optical isomerism with good number of examples. This is followed by active interaction of the students.

**Key points covered:**

Optical Isomerism in Coordination Compounds:

Optical isomers are related as non-superimposable mirror images and differ within the direction with which they rotate plane-polarised light. These isomers are mentioned as enantiomers or enantiomorphs of every other and their non-superimposable structures are described as being asymmetric.

For structures that don't possess a plane of symmetry, the mirror images aren't superimposable. Referred to as chiral structures, such molecules rotate a beam of polarised light.

- If the beam is rotated to the proper (when looking along the beam within the direction of propagation), the substance is claimed to be dextrorotatory (or simply Dextro) and indicated by (+).
- The substances that rotate the plane of polarised light to the left are called levorotatory or Levo and are denoted by (-).
- Racemic mixtures produce no net rotation of the polarised light when equal amounts of each form are mixed together.

Dichlorobis (ethylenediamine) cobalt (II) exists in two geometrical isomers. For the trans isomer, there's a plane of symmetry that bisects the cobalt ion and therefore the ethylenediamine ligands, leaving one Cl on either side of the plane. However, the cis isomer has no plane of symmetry. Thus, two optical isomers exist.

The existence of coordination compounds with an equivalent formula but different arrangements of the ligands were crucial within the development of coordination chemistry. Two or more compounds with an equivalent formula but different arrangements of the atoms are called isomers.

Because isomers usually have different physical and chemical properties, it's important to understand which isomer we are handling.

### **Interactive session:**

The main presentation was followed by an interactive session, the students were allowed to ask questions and engage in discussions with the resource person Dr. K. Nirmala Jyothi. The students participated with enthusiasm, as it is informative and provided the students a deeper understanding about the topic.

### **Conclusion:**

The seminar was concluded with vote of thanks by Mr. Y. Durga Prasad, senior lecturer in Chemistry. The students expressed their gratitude to Dr. K. Nirmala Jyothi for her valuable and informative presentation. The seminar successfully achieved its objectives, by increasing the awareness about the subject and motivating them for research.

### **Acknowledgements:**

The Department of Chemistry, Andhra Christian College, Guntur, extends its heartfelt gratitude to Dr. K. Nirmala Jyothi for her valuable contribution to the

seminar. Special thanks to the faculty members and students for their active participation and support.



### Isomers -

**Same formula different properties.** i.e.,  $N_2O \rightarrow NNO$  or  $NO_2$

**Structural isomer**  
 Coordination sphere isomer      Linkage isomer

**Stereoisomer**  
 Same atomic connectivity but different arrangement.

**Geometrical isomer**      **Optical isomer**

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graph TD
    A["Isomers  
(Same formula, different properties)"] --> B["Structural isomers  
(different bonds)"]
    A --> C["Stereoisomers  
(Same bonds, different arrangements)"]
    B --> D["Coordination-sphere isomers"]
    B --> E["Linkage isomers"]
    C --> F["Geometrical isomers"]
    C --> G["Optical isomers"]
  
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Students attended the seminar

S.No.	Class No.	Name of the student	Signature of the student
1	601	K. Akhila	K. Akhila
2	602	M.Vajram	M. Vajram
3	603	S.Mahalakshmi	S. Mahalakshmi
4	605	B. Jyothi	B. Jyothi
5	611	K. Tulasiram	K. Tulasiram
6	612	Ch. Love Prasanna	Ch. Love prasanna
7	614	B. Prakash	B. Prakash
8	619	K. Kiran Kumar	K. Kiran kumar
9	621	R. Ravi Kiran	R. Ravi Kiran
10	624	M. Enosh	M. Enosh
11	901	B.Chinni	B. Chinni
12	904	A.Prabhavathi	A. prabhavathi
13	905	B. Yamini	B. Yamini
14	906	M. Roja Ramani	M. Roja Ramani
15	907	J. Divya	J. Divya
16	908	Y. Keerthana	Y. Keerthana
17	912	Ch. Ashok Kumar	Ch. Ashok Kumar
18	913.	Ch. Venkateswara Rao	Ch. Venkateswara Rao
19	914	B. Nagendra Babu	B. Nagendra Babu
20	1001	G. Keerthana Pushpalatha	G. Keerthana Pushpalatha

  
HEAD, CHEMISTRY DEPARTMENT  
A.C. COLLEGE, GUNTUR.

ANDHRA CHRISTIAN COLLEGE, GUNTUR

(Day, Evening and PG)

**NOTICE**

Date: 02-02-2021

This is to inform that there will be a seminar on 'Optical Isomerism in Coordination Complexes' tomorrow, i.e., on 03-02-2021, conducted by the department of Chemistry, at 11 AM. Dr. K. Nirmala Jyothi, HOD of Chemistry, J.M.J. college, Tenali, will address the seminar.

All the students of I, II & III B. Sc. are instructed to attend the programme without fail.

*P. Anita Susan*

PRINCIPAL

ANDHRA CHRISTIAN COLLEGE  
(Day, Evening & P.G)  
GUNTUR

Copy to:

1. The coordinator, IQAC, Andhra Christian College
2. The office manager, Andhra Christian College



# Andhra Christian college

(Day, Evening and PG)

## NOTICE

Date: 04-12-2020

This is to inform you that there will be a seminar on “**DISPLAY DEVICES AND MATERIAL**” tomorrow, i.e., on 05-12-2020 to be conducted by the department of physics, at 11 AM. Dr. B. Walter, Lecturer Department of Physics, P.B.N College, Nidubrolu Will be address the seminar. All the students of III B.Sc. are instructed to attend the programme without fail.



Principal  
PRINCIPAL  
ANDHRA CHRISTIAN COLLEGE  
(Day, Evening & P.G)  
GUNTUR

Copy to:

1. The coordinator, IQAC, Andhra Christian College
2. The office manager, Andhra Christian College

# Andhra Christian College::Guntur

## Department of Physics

### Seminar Report on "Display Devices and Material"

**Organized by:** Department of Physics, Andhra Christian College, Guntur

**Date:** 05 – 12 – 2020

**Time:** 11:00 AM

**Venue:** Department of Physics, Andhra Christian College, Guntur

**Resource Person:** Dr. B. Walter Ratna Kumar, Lecturer in Physics, PBN College, Nidubrolu

**Participants:** B.Sc. students and faculty of the Department of Physics

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#### 1. Introduction

The Department of Physics at Andhra Christian College, Guntur, organized a seminar on the topic "Display Devices and Material" on 20th August 2020. The seminar aimed to provide B.Sc. students with an in-depth understanding of the principles, technologies, and materials used in modern display devices. The session was led by Dr. B. Walter Ratna Kumar, a Lecturer in Physics at PBN College, Nidubrolu, who has specialized in LED phosphors through his Ph.D. research.

#### 2. Objectives of the Seminar

The seminar had the following primary objectives:

- **To introduce the basics of display devices:** The seminar aimed to explain the fundamental working principles of various display devices, including CRT, LCD, LED, OLED, and plasma displays.
- **To explore the materials used in display technologies:** Participants were introduced to the different materials, particularly focusing on LED phosphors, that are crucial for the functioning of modern display devices.
- **To discuss the advancements in display technologies:** The seminar aimed to highlight the recent advancements in display technology, including the development of energy-efficient and high-resolution displays.
- **To provide practical insights into the applications of display devices:** The seminar sought to demonstrate the real-world applications of display technologies in devices such as televisions, computer monitors, smartphones, and digital signage.
- **To inspire further academic research:** The seminar aimed to encourage students to pursue further studies and research in the field of display technology and materials science.

#### 3. Summary of the Seminar

The seminar commenced with a welcome address by the Head of the Department of Physics, Dr. P. M. Vinaya Teja, who introduced the resource person, Dr. B. Walter Ratna Kumar, and the topic of the seminar. Dr. Walter began the session with a comprehensive overview of the

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evolution of display devices, starting from the early cathode ray tubes (CRT) to the latest organic light-emitting diodes (OLED) technology.

He explained the working principles of various display devices in detail, including the physical and chemical properties of the materials used in these technologies. Special emphasis was placed on LED technology, particularly the role of phosphors in enhancing the efficiency and colour quality of LED displays. Dr. Walter shared insights from his research on LED phosphors, discussing their impact on the development of high-performance display systems.

The seminar also covered the technological advancements in display devices, such as the shift towards flexible and transparent displays, which have opened new possibilities for innovative applications. Dr. Walter discussed the challenges and future directions in the field, such as improving energy efficiency, resolution, and material sustainability.

Throughout the seminar, students and faculty engaged actively by asking questions and participating in discussions, which enriched the learning experience. Dr. Walter also provided practical examples of how display devices are used in everyday applications, making the session both informative and relatable.

#### 4. Outcomes of the Seminar

The seminar successfully achieved its objectives, leading to the following outcomes:

- **Enhanced understanding of display technologies:** Participants gained a thorough understanding of the principles, materials, and advancements in display technology, which is essential for their academic and professional development.
- **Insight into LED phosphors and materials science:** The seminar provided students with specialized knowledge about LED phosphors and their critical role in modern display devices, fostering interest in materials science.
- **Awareness of industry trends:** The discussion on recent advancements and future trends in display technology helped students stay informed about the latest developments in the field.
- **Increased interest in research:** The seminar inspired students to explore research opportunities in display technologies and materials science, potentially leading to academic projects or further studies.
- **Strengthened faculty-student interaction:** The interactive nature of the seminar encouraged closer collaboration and dialogue between students and faculty, enhancing the overall academic environment.

#### 5. Conclusion

The seminar on "Display Devices and Material" organized by the Department of Physics, Andhra Christian College, Guntur, was a highly successful and enlightening event. Dr. B. Walter Ratna Kumar delivered an engaging and informative presentation that effectively communicated the complexities of display technologies and materials. The seminar met its objectives and provided participants with valuable insights and knowledge.



# Andhra Christian College, Guntur

## Department of Physics

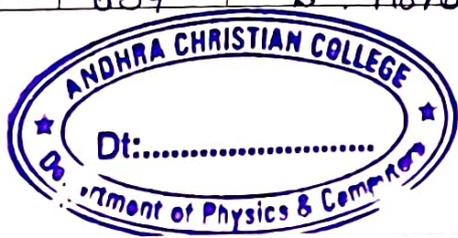
List of Students Attended for SEMINAR CLASS

TOPIC: Display Device and Material

Date: 05-12-2020

Class: III<sup>rd</sup> BSc

S. No.	Class No	Name of the Students	Signature
1.	602	M. Vajramma	M. Vajramma
2.	603	S. Mahalakshmi	S. Mahalakshmi
3.	604	T. Manoja	T. Manoja
4.	605	B. Jyothi .M.	B. Jyothi M
5.	606	Ch. Anitha.	ch. Anitha
6.	607	D. Babu Rao	D. Babu Rao
7.	608	J. Suneel	J. Sunell
8.	609	U. Nagendra Ganesh kumar	U. Nagendra Ganesh kumar
9.	610	M. Satish	M. Satish
10.	611	K. Tulasi Ram	K. Tulasi Ram
11.	612	ch. Love Prasanna	ch. Love Prasanna
12.	613	K. Sudhakar	K. sudhakar
13.	614	V. Prakash	V. Prakash
14.	615	M. Pavan kumar	M. Pavan Kumar
15.	618	ch. Mahesh	ch. Mahesh
16.	619	K. Kiran kumar	K. Kiran Kumar
17.	620	N. Venkateswarlu	N. Venkateswarlu
18.	621	R. Ravi Kiran	R. Ravi kiran
19.	622	B. Naga Raju	B. Naga Raju
20.	623	U. Durga Prasad	U. Durga
21.	624	M. Enoch	M. Enoch
22.	625	V. Naveen	N. Naveen
23.	626	T. Hanumantha Rao	T. Hanumantharao
24.	629	V. Rajesh	V. Rajesh
25.	631	K. Bhanu Prakash	K. Bhanu prakash
26.	632	G. Maheswar Reddy	G. Maheswar Reddy
27.	634	D. Yakobu.	D. Yakobu
28.	635	D. Satyanarayana	D. satyanarayana
29.	637	V. Naga Suresh	V. Naga Suresh
30.	639	E. Mohan Krishna	E. Mohan Krishna.



*[Signature]*  
 HOD  
 Department of Physics  
 A.C. College, Guntur.

# **Andhra Christian College::Guntur**

## **Report on the Two-Day National Webinar on**

### **"Yoga and Wellness during COVID-19 Period"**

#### **Introduction**

The global COVID-19 pandemic has brought forth unprecedented challenges, impacting not only the physical health of individuals but also their mental and emotional well-being. In response to these challenges, the Department of Physical Education and the Internal Quality Assurance Cell (IQAC) of Andhra Christian College, Guntur, in collaboration with Acharya Nagarjuna University, organised a Two-Day National Webinar titled "Yoga and Wellness during COVID-19 Period" on the 7th and 8th of October, 2020. The webinar aimed to address the importance of yoga and wellness practices in mitigating the effects of the pandemic, focusing on the holistic health of individuals.

#### **Objectives of the Webinar**

The primary objectives of this webinar were:

1. To emphasize the significance of yoga in maintaining physical, mental, and emotional well-being during the COVID-19 pandemic.
2. To provide insights into the practical applications of yoga as a means of coping with the stresses induced by the pandemic.
3. To explore various wellness strategies that can be adopted to enhance overall health during such critical times.
4. To offer a platform for experts to share their knowledge and engage with participants on the benefits of yoga and wellness practices.

#### **Chief Patron and Chairperson**

The webinar was held under the esteemed patronage of Most Rev. Dr. K. F. Paradesi Babu, Moderator Bishop of the Andhra Evangelical Lutheran Church (AELC) and Correspondent of Andhra Christian College, Guntur. Dr. T. Anita Susan, the Principal of Andhra Christian College, served as the Chairperson for the event. Their leadership and vision were instrumental in the successful organization and execution of the webinar.

#### **Inaugural Session**

The webinar commenced with an inaugural address by Dr. P. S. Paul Kumar, Director of Physical Education and Secretary of the Sports Board at Acharya Nagarjuna University. Dr. Paul Kumar emphasized the importance of maintaining physical health through regular exercise, especially in times of a global health crisis. He highlighted how yoga, with its deep-rooted tradition in Indian culture, offers a comprehensive approach to health that includes physical exercise, mental relaxation, and spiritual awakening.

## **Sessions and Resource Persons**

### **Day 1: October 7th, 2020**

The first day of the webinar featured an in-depth session led by Dr. K. Venkatachalapathy, Assistant Professor and Director i/c of the Centre for Yoga Studies, Annamalai University. Dr. Venkatachalapathy's session focused on the therapeutic benefits of yoga, particularly in strengthening the immune system and reducing stress, which are critical factors during the COVID-19 pandemic.

Dr. Venkatachalapathy began by discussing the physiological impacts of yoga on the body. He explained how regular yoga practice can enhance respiratory and cardiovascular function, improve flexibility, and boost overall energy levels. He also touched upon the psychological benefits of yoga, such as reducing anxiety, depression, and stress—ailments that have seen a significant rise during the pandemic due to prolonged isolation and uncertainty.

The session was interactive, with Dr. Venkatachalapathy demonstrating various yoga postures (asanas) and breathing techniques (pranayama) that can be easily incorporated into daily routines. He encouraged participants to practice these techniques regularly to build resilience against the physical and mental challenges posed by the pandemic.

### **Day 2: October 8th, 2020**

The second day of the webinar featured a session by Mrs. A. Radhika, Assistant Professor in the Department of Yoga at UCPESS, Acharya Nagarjuna University. Mrs. Radhika's session was centered around the concept of wellness during the COVID-19 period, with a specific focus on the role of yoga in promoting holistic well-being.

Mrs. Radhika began her session by defining wellness as a multi-dimensional concept that includes physical, mental, emotional, and spiritual health. She highlighted the interconnectedness of these dimensions and how imbalances in one area can affect overall well-being. She explained how the COVID-19 pandemic has disrupted the balance in many people's lives, leading to increased stress, anxiety, and health issues.

The session provided practical advice on how to use yoga as a tool for restoring balance and enhancing wellness. Mrs. Radhika demonstrated several simple yoga postures and breathing exercises designed to calm the mind, strengthen the body, and uplift the spirit. She also discussed the importance of mindfulness and meditation in managing stress and maintaining emotional stability during challenging times.

Throughout the session, Mrs. Radhika emphasized the importance of regular yoga practice as part of a comprehensive wellness routine. She encouraged participants to integrate yoga into their daily lives, not just as a physical exercise but as a holistic approach to health and well-being.

### **Participation and Interaction**

The webinar saw active participation from students, faculty members, and yoga enthusiasts from across the country. The interactive nature of the sessions allowed participants to engage with the resource persons, ask questions, and seek guidance on various aspects of yoga and wellness. The use of Zoom as the platform for the webinar facilitated seamless communication and interaction, ensuring that participants could benefit fully from the knowledge and expertise shared by the speakers.

## **Organizing Committee**

The webinar was meticulously organized by a dedicated team led by Dr. G. A. Preetham Prakash, Head of the Department of Physical Education at Andhra Christian College, who served as the Organizing Secretary. The coordination and planning by Dr. K. Moses, IQAC Coordinator, were instrumental in the smooth execution of the event. The organizing team ensured that all logistical aspects were managed effectively, from participant registration to the distribution of participation links and instructions.

## **Key Takeaways**

1. **Yoga as a Tool for Immunity and Stress Management:** The sessions underscored the importance of yoga in boosting immunity and managing stress during the COVID-19 pandemic. The practical demonstrations of yoga postures and breathing techniques provided participants with valuable tools to enhance their physical and mental health.
2. **Holistic Wellness Approach:** The webinar emphasized the need for a holistic approach to wellness, particularly during times of crisis. Participants were encouraged to adopt a balanced lifestyle that includes regular physical activity, healthy eating, and mental relaxation.
3. **Practical Application:** The interactive nature of the sessions allowed participants to gain hands-on experience with yoga practices that could be easily incorporated into their daily routines. The resource persons provided practical advice on how to maintain consistency in practice and achieve long-term health benefits.
4. **Community and Support:** The webinar fostered a sense of community among participants, providing a platform for sharing experiences and supporting one another in their wellness journeys. The discussions highlighted the importance of staying connected and supporting each other during challenging times.

## **Conclusion**

The Two-Day National Webinar on "Yoga and Wellness during COVID-19 Period" was a significant success, achieving its objectives of promoting yoga and wellness practices as essential tools for navigating the challenges of the COVID-19 pandemic. The insightful presentations by the resource persons, coupled with the active participation of attendees, made the event a valuable learning experience for all involved.

The event highlighted the relevance of traditional practices like yoga in modern times, especially during global health crises. The knowledge and skills imparted during the webinar are expected to have a lasting impact on the participants, encouraging them to incorporate yoga and wellness practices into their daily lives for better health and well-being.

The organizing team, led by Dr. G. A. Preetham Prakash and supported by Dr. K. Moses, deserves commendation for their efforts in putting together such a well-organized and impactful event. The success of this webinar serves as a testament to the importance of continued learning and adaptation in the face of unprecedented challenges, and it underscores the role of educational institutions in fostering holistic health and wellness in society.

In conclusion, the Two-Day National Webinar on "Yoga and Wellness during COVID-19 Period" has set a high standard for future events, demonstrating the power of collaboration, knowledge sharing, and community support in promoting health and well-being during times of crisis.



Estd: 1885

"Ye shall know the truth and the truth shall set you free" John 8:32

# Andhra Christian College, Guntur

(Day, Evening & P.G.)

Andhra Pradesh, India - 522001

Reaccredited with "A" Grade by NAAC



## DEPARTMENT OF PHYSICAL EDUCATION & IQAC

in collaboration with

## ACHARYA NAGARJUNA UNIVERSITY

jointly organising

### A TWO DAY NATIONAL WEBINAR

on

### "Yoga and Wellness during COVID-19 period"

7<sup>th</sup> & 8<sup>th</sup> October, 2020; 10:30 a.m. to 01:00 p.m.

**Chief Patron**



**Most Rev. Dr. K. F. Paradesi Babu**  
Moderator Bishop, A. E. L. Church &  
Correspondent, A. C. College

**Chairperson**



**Dr. T. Anita Susan**  
Principal  
A. C. College

**Inaugural Address**



**Dr. P. P. S. Paul Kumar**  
Director of Physical Education &  
Secretary, Sports Board  
Acharya Nagarjuna University

**Resource Person**



**Dr. K. Venkatachalapathy**  
Assistant Professor & Director I/c  
Centre for Yoga Studies  
Annamalai University

**Resource Person**



**Mrs. A. Radhika**  
Assistant Professor  
Department of Yoga, UCPSS,  
Acharya Nagarjuna University

**Organising Secretary**

**Dr. G. A. Preetham Prakash**  
Head, Department of Physical Education  
9848428844

**Convener**

**Dr. K. Moses**  
Coordinator, IQAC  
9848183194

Email : [accollegewebinar@gmail.com](mailto:accollegewebinar@gmail.com)

**Registration link :**

<https://forms.gle/4fy8tqVbaur2wXk7>

Instructions & Participation links will be send through  
Email & Whatsapp Group

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# **Andhra Christian College::Guntur**

## **Faculty Development Program Report**

**Title: Seven-Day Online Faculty Development Program on "Revised Assessment and Accreditation Framework of NAAC"**

**Duration: 09 – 09- 2020 to 15 – 09 - 2020**

**Time: 10:30 a.m. to 12:00 noon**

### **Introduction**

In light of the evolving demands of higher education and the need for continuous improvement in quality standards, a seven-day online Faculty Development Program (FDP) was jointly conducted by the Andhra Pradesh State Council of Higher Education (APSCHE) and Andhra Christian College, Guntur. This program, titled "Revised Assessment and Accreditation Framework of NAAC," aimed to provide faculty members with a thorough understanding of the revised framework established by the National Assessment and Accreditation Council (NAAC). The focus was on equipping educators with the necessary skills and knowledge to enhance institutional quality and effectively navigate the accreditation process.

The FDP spanned seven days, with each day dedicated to a specific criterion of the NAAC framework. Esteemed experts and resource persons led the sessions, offering insights and practical guidance on how to meet the requirements of the revised accreditation framework.

### **Objectives**

The primary objectives of the FDP were as follows:

- 1. To provide a comprehensive understanding of the revised NAAC framework.**
- 2. To enhance the capability of faculty members in addressing the key criteria of the accreditation process.**
- 3. To foster a culture of quality improvement and continuous development within educational institutions.**
- 4. To enable participants to implement best practices for achieving high standards of institutional performance.**
- 5. To discuss the role of governance, leadership, and management in the accreditation process.**

## **Program Inauguration**

The FDP was inaugurated on September 9th, 2020, by distinguished guests and key stakeholders in higher education.

### **Chief Patron:**

- **Most Rev. Dr. K. F. Paradesi Babu**  
Moderator Bishop, A. E. L. Church, Manager of all A. E. L. C. Educational Institutions, and Correspondent, Andhra Christian College, Guntur.

### **Keynote Address:**

- **Dr. G. Srinivas**  
Additional Secretary, University Grants Commission, New Delhi.

### **Inaugural Address:**

- **Prof. K. Rama Mohan Rao**  
Vice-Chairman, APSICHE.

### **Chairperson:**

- **Dr. T. Anita Susan**  
Principal, Andhra Christian College, Guntur.

The inauguration set the tone for the week-long program, with a focus on the significance of the revised NAAC framework and its implications for higher education institutions.

## **Day 1: Criterion I - Curricular Aspects**

### **Resource Person:**

#### **Dr. G. Mathew Srirangam**

Academic Officer, Quality Assurance Cell, APSICHE.

The first day of the FDP focused on "Curricular Aspects," a crucial component of the NAAC assessment. Dr. G. Mathew Srirangam led the session, emphasizing the need for a well-structured and dynamic curriculum that meets the evolving demands of the industry and society. He discussed the importance of curriculum design, development, and revision in ensuring academic excellence and relevance.

### **Key topics covered included:**

- Designing a curriculum that is aligned with the institution's vision and mission.
- The integration of cross-cutting issues such as gender, environment, and human values into the curriculum.
- The role of feedback from stakeholders (students, alumni, employers) in curriculum development.
- The significance of interdisciplinary and multidisciplinary approaches in curriculum design.

The session concluded with a Q&A segment, where participants engaged in discussions on best practices for curricular enhancement.

## **Day 2: Criterion II - Teaching, Learning, and Evaluation**

### **Resource Person:**

#### **Dr. S. M. Basha**

Associate Professor, Department of English, Osmania College (A), Kurnool.

The second day's session delved into "Teaching, Learning, and Evaluation," a core aspect of the accreditation process. Dr. S. M. Basha provided insights into innovative teaching methodologies and effective evaluation techniques. He highlighted the importance of adopting student-centered learning approaches that cater to diverse learning needs.

Topics discussed included:

- Active learning strategies, including problem-based learning and collaborative learning.
- The use of ICT tools to enhance teaching and learning outcomes.
- Formative and summative assessment techniques to evaluate student performance effectively.
- Strategies for continuous professional development of faculty to improve teaching quality.

Participants were encouraged to share their experiences and challenges in implementing these strategies, leading to a collaborative exchange of ideas.

## **Day 3: Criterion III - Research, Innovation, and Extension**

### **Resource Person:**

#### **Dr. Rama Chandra Rao K.**

Raman Fellow Visiting Research Associate, U of L - USA & Associate Professor, Head, Department of Physics, GDC (A), Rajamahendravaram.

On the third day, the focus shifted to "Research, Innovation, and Extension," a critical area for institutions aiming to achieve excellence in the NAAC accreditation process. Dr. Rama Chandra Rao K. led the session, emphasizing the need for a robust research culture within institutions. He discussed the significance of research in enhancing the academic profile of institutions and contributing to societal development.

Key areas covered included:

- Developing a research strategy that aligns with the institution's goals and priorities.
- Encouraging faculty and students to engage in interdisciplinary research.
- The role of innovation and entrepreneurship in higher education.
- Strategies for effective extension activities that benefit the community and society.

He also highlighted the importance of securing research funding and publishing in high-impact journals. The session included case studies of successful research initiatives, providing participants with practical insights into how to strengthen their institution's research profile.

## **Day 4: Criterion IV - Infrastructure and Learning Resources**

### **Resource Person:**

#### **Dr. G. A. Prasad Rao**

HOD, LIS, Andhra Loyola College (A), Vijayawada, and Senate Member, Krishna University.

The fourth day of the FDP focused on "Infrastructure and Learning Resources," a vital component of the NAAC accreditation framework. Dr. G. A. Prasad Rao discussed the significance of having adequate physical and digital infrastructure to support teaching, learning, and research activities.

The session covered the following topics:

- Planning and development of physical infrastructure, including classrooms, laboratories, and libraries.
- The role of Information and Communication Technology (ICT) in enhancing learning experiences.
- Strategies for maintaining and upgrading infrastructure to meet the changing needs of education.
- The importance of resource management and sustainability in higher education institutions.

Participants were guided on how to effectively utilize available resources and infrastructure to create a conducive learning environment. The session also included discussions on how to leverage technology for remote learning, especially in the context of the COVID-19 pandemic.

### **Day 5: Criterion V - Student Support and Progression**

#### **Resource Person:**

#### **Dr. Rama Chandra Rao K.**

Raman Fellow Visiting Research Associate, U of L - USA & Associate Professor, Head, Department of Physics, GDC (A), Rajamahendravaram.

Day five of the FDP was dedicated to "Student Support and Progression," with Dr. Rama Chandra Rao K. returning to lead the session. He emphasized the importance of providing comprehensive support systems to ensure student success and progression.

Key topics included:

- Student counseling and mentoring services.
- Career guidance and placement support.
- Initiatives to support the holistic development of students, including extracurricular activities.
- Monitoring and enhancing student progression and pass rates.

The session also covered the significance of maintaining alumni networks and engaging them in the institution's development activities. Participants discussed various strategies to enhance student support systems and shared their experiences in implementing these initiatives.

### **Day 6: Criterion VI - Governance, Leadership, and Management**

#### **Resource Person:**

#### **Mr. M. Vincent Paul**

Head, Department of English, CRR College (A), Eluru.

The penultimate day of the FDP focused on "Governance, Leadership, and Management," a criterion that plays a crucial role in the overall functioning and quality assurance of an institution. Mr. M. Vincent Paul led the session, discussing the importance of effective leadership and governance structures in achieving institutional goals.

The session covered:

- The role of leadership in driving quality initiatives and ensuring accountability.
- Best practices in governance and management to enhance institutional performance.
- The importance of strategic planning and decision-making in educational institutions.
- Financial management and resource mobilization for sustainability.

He also discussed the role of various stakeholders, including faculty, students, and administrative staff, in the governance process. The session provided participants with insights into how to strengthen leadership and management practices within their institutions.

### **Day 7: Criterion VII - Institutional Values and Best Practices**

#### **Resource Person:**

#### **Prof. P. Gopi Chand**

Vice-principal and Head, Department of English, and Coordinator, IQAC, JKC College (A), Guntur.

The final day of the FDP focused on "Institutional Values and Best Practices," led by Prof. P. Gopi Chand. This session emphasized the need for institutions to uphold ethical values and implement best practices that contribute to the holistic development of students and society.

Topics discussed included:

- Promoting values such as inclusivity, diversity, and sustainability within the institution.
- Best practices in teaching, research, and community engagement.
- The importance of documenting and sharing best practices to encourage continuous improvement.
- Strategies for creating an institutional culture that fosters innovation and excellence.

Participants were encouraged to share their institution's best practices and discuss how these practices could be adapted or enhanced to meet the revised NAAC framework's standards.

### **Organizing Committee and Advisory Committee**

#### **Organizing Secretary:**

- **Dr. K. Moses**  
Vice-principal, Professor in Mathematics, and Coordinator, IQAC, Andhra Christian College, Guntur.

#### **Convener:**

- **Dr. V. Ezra Vijaya Sekhar**  
Associate Professor and Head, Department of Botany, Andhra Christian College, Guntur. As the Convener, Dr. V. Ezra Vijaya Sekhar was responsible for overseeing the day-to-day proceedings of the FDP. His expertise in academic administration and his commitment to quality assurance were evident in the smooth execution of the program.

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### **Advisory Committee and Organizing Committee**

The success of the FDP was also due to the collaborative efforts of the Advisory and Organizing Committees, which included experienced faculty members who provided valuable inputs and ensured the effective delivery of the program.

#### **Advisory Committee:**

- **Mrs. K. Ruth**  
Associate Professor in Mathematics, Andhra Christian College, Guntur.
- **Mr. Y. Sudhakara Reddy**  
Associate Professor in Physics, Andhra Christian College, Guntur.

- **Dr. N. J. Solomon Babu**

Professor in Chemistry and Head, Department of Chemistry, Andhra Christian College, Guntur.

The Advisory Committee members were instrumental in providing strategic guidance and support throughout the FDP. Their collective experience in academia and administration enriched the program's content and delivery.

**Organizing Committee:**

- **Dr. B. Vijaya Kumar**

Professor in Mathematics, Andhra Christian College, Guntur.

- **Dr. G. A. Preetham Prakash**

Associate Professor and Head, Department of Physical Education, Andhra Christian College, Guntur.

- **Dr. P. M. Vinaya Teja**

Associate Professor in Physics, Andhra Christian College, Guntur.

- **Dr. J. M. Pradeep**

Assistant Professor and Head, Department of Mathematics, Andhra Christian College, Guntur.

- **Dr. M. S. Lavanya**

Assistant Professor in Mathematics, Andhra Christian College, Guntur.

The Organizing Committee was responsible for the logistical arrangements and technical support for the FDP. Their hard work and dedication ensured that the online sessions were conducted seamlessly, with all participants able to engage fully with the content.

## **Conclusion and Reflections**

The 7-day Online Faculty Development Program on the "Revised Assessment and Accreditation Framework at NAAC" was a resounding success, providing participants with a comprehensive understanding of the revised framework and its implications for higher education institutions. The expert sessions, led by distinguished resource persons, offered valuable insights into the seven criteria of the NAAC accreditation process, equipping faculty members and administrators with the knowledge and tools needed to navigate the accreditation landscape effectively.

Participants were able to engage in meaningful discussions, share experiences, and gain a deeper understanding of the best practices that can enhance the quality and effectiveness of their institutions. The program also emphasized the importance of continuous improvement, innovation, and strategic planning in achieving academic excellence and ensuring that institutions meet the ever-evolving demands of the higher education sector.

The success of this FDP is a testament to the collaborative efforts of the organizers, resource persons, and participants, who together contributed to a rich and rewarding learning experience. The knowledge and insights gained from this program will undoubtedly play a crucial role in shaping the future of higher education institutions and ensuring their continued success in the NAAC accreditation process.

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION (APSCH E)



and  
**Andhra Christian College, Guntur.**  
jointly organising



Estd. 1885

**A 7 Day Online Faculty Development Program**  
on  
**Revised Assessment and Accreditation Framework of NAAC**

09<sup>th</sup> to 15<sup>th</sup> September, 2020  
Every day 10:30 a.m. to 12:00 noon



**Chief Patron**



**Most Rev. Dr. K. F. Paradesi Babu**  
Moderator Bishop, A. E. L. Church,  
Manager, Educational Institutions, A. E. L. Church,  
Correspondent, A. C. College

**Keynote Address**  
by



**Dr. G. Srinivas**  
Addl. Secretary,  
University Grants Commission,  
New Delhi

**Inaugural Address**  
by



**Prof. K. Rama Mohana Rao**  
Vice-Chairman,  
Andhra Pradesh State Council of Higher Education

**Chair Person**



**Dr. T. Anita Susan**  
Principal & Chairperson, IQAC,  
A. C. College

**Resource Persons**

**Criterion I**

Curricular Aspects



**Dr. G. Mathew Srirangam**  
Academic Officer, Quality Assurance Cell,  
Andhra Pradesh State Council of Higher Education  
Head, Dept. of Zoology,  
Andhra Loyola College (A), Vijayawada

**Criterion II**

Teaching Learning and Evaluation



**Dr. S. M. Bhasha**  
Associate Professor, Dept. of English,  
H.O.D., HVPE,  
Osmania College (A), Kurnool

**Criterion III**

Research, Innovations and Extension



**Dr. Ramachandra Rao K.**  
Raman Fellow Visiting Research Associate  
U of I - USA  
Associate Professor & H.O.D. of Physics,  
Govt. College (A), Rajamahendravaram

**Criterion IV**

Infrastructure and Learning Resources



**Dr. G. A. Prasad Rao**  
H.O.D., I.I.S  
Andhra Loyola College (A), Vijayawada  
Senate Member,  
Krishna University

## Resource Persons

### Criterion V

Student Support and Progression



**Dr. Ramachandra Rao K.**  
Raman Fellow Visiting Research Associate  
U of L - USA  
Associate Professor & H.O.D. of Physics,  
Govt. College (A), Rajamahendravaram

### Criterion VI

Governance, Leadership and Management



**Mr. M. Vincent Paul**  
H.O.D., Department of English  
C. R. R. College (A), Eluru

### Criterion VII

Institutional Values and Best Practices



**Prof. P. Gopi Chand**  
Vice-Principal & H.O.D., English,  
Coordinator, IQAC,  
J. K. C. College (A), Guntur

### Organising Secretary

**Dr. K. Moses**

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Coordinator, IQAC

### Convener

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Associate Professor,  
H.O.D., Botany

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Associate Professor in Physics

**Dr. N. J. Solomon Babu**

H.O.D., & Professor in Chemistry

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Professor in Mathematics

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Associate Professor & H.O.D.,  
Physical Education

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Associate Professor in Physics

**Dr. J. M. Pradeep**

Assistant Professor & H.O.D., Mathematics

**Dr. M. S. Lavanya**

Assistant Professor in Mathematics

For Further Details Please Contact :

**Dr. K. Moses, 9848183194**

**Dr. V. Ezra Vijaya Sekhar, 9490934701**

Email ID : [jdpaccollege2020@gmail.com](mailto:jdpaccollege2020@gmail.com)

Registration Free

Registration Link :

<https://forms.gle/w2mf1oUYGMtnZyig8>

Instructions & Participation links will be send through Email & Whatsapp Group



This Picture was taken on 15th August, 1947 in A. C. College, Guntur.



PRINCIPAL  
ANDHRA CHRISTIAN COLLEGE  
(Day, Evening & P.G)  
GUNTUR

# **Andhra Christian College::Guntur**

## **Report on the Two-Day International Webinar on Health, Environmental & Educational Issues of COVID-19**

### **Introduction**

The COVID-19 pandemic, an unprecedented global crisis, has had far-reaching impacts on health, education, and the environment. Recognizing the need to address these critical issues, the Department of Botany and the Internal Quality Assurance Cell (IQAC) of Andhra Christian College, Guntur, organized a two-day international webinar titled “Health, Environmental & Educational Issues of COVID-19” from June 15th to 16th, 2020. The webinar aimed to provide a platform for experts from various fields to share their knowledge and insights on how the pandemic has affected different sectors and what could be done to mitigate its impacts.

The webinar was held via Zoom, with the Meeting ID 792 712 8894 and Password 3KnYL0. The event was conducted under the esteemed patronage of Most Rev. Dr. K. F. Paradesi Babu, Moderator Bishop of the Andhra Evangelical Lutheran Church (AELC) and Correspondent of Andhra Christian College, Guntur. Dr. T. Anita Susan, the Principal of Andhra Christian College, chaired the event, with Dr. K. Moses, IQAC Coordinator, and Dr. V. Ezra Vijaya Sekhar, Head of the Department of Botany, serving as the conveners.

### **Objectives of the Webinar**

The primary objectives of the webinar were to:

1. Discuss the health challenges posed by COVID-19 and explore strategies for managing them.
2. Examine the impact of the pandemic on education, particularly the shift to online learning platforms.
3. Analyse the environmental consequences of the COVID-19 lockdown and explore sustainable practices for the future.
4. Provide a platform for experts to share their insights and engage in discussions with participants from around the world.

### **Day 1: 15 – 06 - 2020**

#### **Session 1: COVID-19 Pandemic Health Issues**

The first session of the webinar was held on June 15th, 2020, from 10:30 a.m. to 11:30 a.m. The session was led by Dr. Johnson T. Samuel, MD, DNB, FRCP, PG Cert. FHEA, a distinguished respiratory physician and Director of Medical Education, Mid and South Essex University Hospitals Group, United Kingdom. Dr. Samuel is also an Honorary Clinical Senior Lecturer at University College, London.

In his presentation, Dr. Samuel provided a comprehensive overview of the health issues associated with the COVID-19 pandemic. He began by discussing the clinical characteristics of the virus, including its transmission mechanisms, symptoms, and progression. Dr. Samuel highlighted the challenges faced by healthcare systems worldwide in responding to the pandemic, particularly in

terms of managing the influx of patients and ensuring the availability of necessary resources such as ventilators and personal protective equipment (PPE).

Dr. Samuel also discussed the long-term health implications of COVID-19, including the potential for lasting respiratory and cardiovascular issues in recovered patients. He emphasized the importance of early detection and intervention in managing the disease, as well as the need for ongoing research to better understand its effects.

One of the key points raised during the session was the need for a coordinated global response to the pandemic. Dr. Samuel stressed the importance of international collaboration in sharing knowledge, resources, and best practices to combat the virus effectively. He also addressed the mental health challenges faced by both healthcare workers and the general population during the pandemic, calling for increased support and resources to address these issues.

## **Session 2: COVID-19 Pandemic Future Classroom: Google Classroom**

The second session, held from 11:30 a.m. to 12:30 p.m., was led by Prof. T. Bala Murali Krishna, M. Tech., Ph. D., Head of the Department of Computer Science and Engineering, Siset, Nuziveedu, Krishna District. Prof. Krishna's session focused on the impact of the COVID-19 pandemic on the education sector, with a particular emphasis on the future of classrooms and the role of digital learning platforms like Google Classroom.

Prof. Krishna began by discussing the abrupt shift from traditional classroom-based learning to online education due to the pandemic. He highlighted the challenges faced by educators and students alike in adapting to this new mode of learning, including issues related to digital literacy, access to technology, and the effectiveness of online teaching methods.

The session provided an in-depth analysis of Google Classroom, a widely used online learning platform. Prof. Krishna demonstrated how educators can use the platform to create and manage courses, distribute assignments, and communicate with students. He also discussed the advantages of using Google Classroom, such as its user-friendly interface, integration with other Google tools, and the ability to track student progress.

However, Prof. Krishna also addressed the limitations of online learning, particularly in terms of student engagement and the lack of hands-on experiences that are crucial in certain fields of study. He emphasized the need for educators to develop innovative teaching strategies that can overcome these challenges and make online learning more effective.

Prof. Krishna concluded the session by discussing the potential long-term impacts of the pandemic on education. He suggested that while online learning is likely to remain a key component of education in the future, it should complement rather than replace traditional classroom-based learning. He also called for greater investment in digital infrastructure and training for educators to ensure that they are equipped to deliver high-quality online education.

**Day 2: 16 – 06 - 2020**

### **Session 3: COVID-19 Pandemic Online Education: MOOCs**

The third session of the webinar, held on June 16th, 2020, from 10:30 a.m. to 11:30 a.m., was led by Dr. M. Kamala Kumari, M. Tech., Ph. D., Associate Professor in the Department of Computer Science and Engineering and Dean of the College Development Council, Adikavi Nannaya University, Rajahmundry, West Godavari District. Dr. Kamala Kumari's session focused on the role of Massive Open Online Courses (MOOCs) in the context of the COVID-19 pandemic.

She began by explaining what MOOCs are and how they have evolved over the past decade. She highlighted the key features of MOOCs, such as their accessibility, flexibility, and the wide range of subjects they cover. Dr. Kamala emphasized that MOOCs have become an essential tool for continuing education during the pandemic, allowing learners to access high-quality educational content from top universities and institutions around the world.

The session also explored the challenges associated with MOOCs, including issues related to course completion rates, the lack of personalized feedback, and the potential for disparities in access to technology. She discussed strategies for overcoming these challenges, such as incorporating interactive elements into courses, providing additional support to learners, and leveraging data analytics to track student progress and identify areas where they may need additional help.

She also addressed the broader implications of MOOCs for the future of education. She suggested that MOOCs could play a significant role in democratizing education by making it more accessible to learners from diverse backgrounds. However, she also cautioned that MOOCs should not be seen as a one-size-fits-all solution, and that they should be integrated into a broader educational framework that includes other forms of learning.

The session concluded with a discussion on the potential for MOOCs to complement traditional higher education. Dr. Kamala argued that MOOCs could be used to supplement in-person learning, providing students with additional resources and opportunities to explore subjects in greater depth. She also suggested that institutions should consider offering credit for completed MOOCs as a way to enhance their educational offerings and attract a wider range of students.

### **Session 4: Environmental Impacts of COVID-19 Lockdown**

The final session of the webinar, held from 11:30 a.m. to 12:30 p.m. on June 16th, 2020, was led by Dr. K. E. Mothi Kumar, M. Tech., Ph. D., Senior Scientist, SG (Env.), Haryana Space Application Centre (HARSAC), Hisar, Haryana. Dr. Kumar's session focused on the environmental impacts of the COVID-19 lockdown.

He began by discussing the significant environmental changes observed during the lockdown, such as reductions in air and water pollution, decreased greenhouse gas emissions, and the resurgence of wildlife in certain areas. He presented data from various studies that showed how the lockdown had led to a temporary but noticeable improvement in environmental quality.

However, Dr. Mothi Kumar also highlighted the potential negative impacts of the lockdown on the environment. He pointed out that the increased use of disposable personal protective equipment (PPE) and the surge in medical waste had led to new environmental challenges. Additionally, he raised concerns about the long-term sustainability of the environmental gains made during the lockdown, noting that they could be reversed as economies reopen and activities resume.

The session also explored the lessons that could be learned from the environmental impacts of the COVID-19 lockdown. He argued that the pandemic had provided a unique opportunity to rethink our approach to environmental management and to consider more sustainable practices. He called for a greater emphasis on reducing pollution, conserving natural resources, and promoting green technologies in the post-pandemic world.

Dr. Mothi Kumar concluded his presentation by discussing the role of remote sensing and geospatial technologies in monitoring environmental changes during the pandemic. He demonstrated how these technologies could be used to track pollution levels, assess the impact of human activities on ecosystems, and inform policy decisions aimed at promoting environmental sustainability.

## **Conclusion**

The two-day international webinar on “Health, Environmental & Educational Issues of COVID-19” organized by Andhra Christian College, Guntur, was a resounding success. The event brought together experts from various fields to discuss the multifaceted challenges posed by the COVID-19 pandemic and to explore strategies for addressing them. The webinar provided valuable insights into the health, environmental, and educational impacts of the pandemic, and offered participants a platform to engage in meaningful discussions on these critical issues.

The sessions highlighted the importance of a coordinated and multidisciplinary approach to managing the pandemic’s effects. The insights shared by the resource persons underscored the need for continued research, innovation, and collaboration in responding to the ongoing crisis. The webinar also emphasized the importance of learning from the pandemic and using these lessons to build a more resilient and sustainable future.

Overall, the webinar was well-received by participants, who appreciated the depth of knowledge and expertise shared by the speakers. The event not only enhanced the understanding of the issues related to COVID-19 but also provided practical guidance on how to navigate the challenges posed by the pandemic. The Department of Botany and IQAC of Andhra Christian College, Guntur, should be commended for organizing such a timely and impactful event, which has made a significant contribution to the ongoing global conversation on COVID-19.



# Andhra Christian College, Guntur

Andhra Pradesh, India

Re-Accredited with "A" Grade by NAAC

## DEPARTMENT OF BOTANY & IQAC

jointly organise

### A Two Day International Webinar

on

### "Health, Environment & Educational issues of COVID - 19"

15<sup>th</sup> & 16<sup>th</sup> June, 2020

Chief Patron



Rev. K. F. Paradesi Babu  
Moderator & Bishop, AELC

Principal & Chairperson



Dr. T. Anita Susan  
Principal & Correspondent



Meeting ID : 792 712 8894  
Password : AKnYLD

Session - I (Date : 15.06.2020; Time : 10:30 a.m. to 11:30 a.m.)



Topic : COVID - 19 Pandemic Health issues  
Resource Person :  
**Dr. Johnson T. Samuel**, MD, DNB, FRCP, PG Cert. FHEA,  
Director of Medical Education,  
Mid and South Essex University Hospitals group Consultant  
Respiratory Physician Basildon University Hospital,  
United Kingdom.  
Honorary Clinical Senior Lecturer, University College London.

Session - III (Date : 16.06.2020; Time : 10:30 a.m. to 11:30 a.m.)



Topic : COVID - 19 Pandemic Online Education : MOOCS  
Resource Person :  
**Dr. M. Kamaia Kumari**, M.Tech., Ph.D.  
Associate Professor, Dept. of CSC,  
Dean, College Development Council,  
Adikavi Nannaya University, Rajahmundry, West Godavari Dist.,

Session - II (Date : 15.06.2020; Time : 11:30 a.m. to 12:30 p.m.)



Topic : COVID - 19 Pandemic Future Class Room : Google Class Room  
Resource Person :  
**Prof. T. Bala Murali Krishna**, M.Tech., Ph.D.  
Head of the Department,  
CSC, Siset, Nuziveedu, Krishna Dist.,

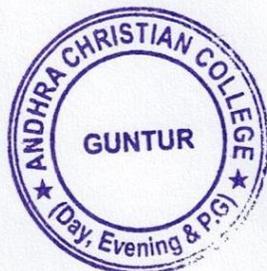
Session - IV (Date : 16.06.2020; Time : 11:30 a.m. to 12:30 p.m.)



Topic : Environmental impacts of COVID - 19 Lockdown  
Resource Person :  
**Dr. K. E. Mothi Kumar**, M.Tech., Ph.D.  
Sr. Scientist SG (Env),  
Haryana Space Application Centre (HARSAC),  
Hissar, Haryana.

Convenors

Dr. K. Moses, Convenor, IQAC & Dr. V. Ezra Vijaya Sekhar, HOD, Dept. of Botany



*Handwritten signature*  
PRINCIPAL  
ANDHRA CHRISTIAN COLLEGE  
(Day, Evening & P.G)  
GUNTUR