

GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533 216

**Dr. B. R. AMBEDKAR KONASEEMA DISTRICT,
ANDHRA PRADESH**



GUEST LECTURE
on
"Career Guidance through Chemistry in Various Fields"

Resource Person

Dr. Ch. Naga Babu,
Assistant professor,
H.O.D, Department of Chemistry,
AKNU Campus, Tadepalligudem.

Organized By

Department of Chemistry,
Govt. Degree College, Mummdivaram
Dr. B. R. Ambedkar Konaseema District.

INDEX

S.NO.	TOPIC	PAGE NO.	REMARKS
1.	Department Meeting Minutes	2	
2.	Request Letter to the Principal	3	
3.	Invitation to the Guest	4	
4.	Acceptance Letter of the Guest	5	
5.	Notice to the Staff and Students	6	
6.	Program Sheet	7	
7.	Synopsis of the lecture and Message of the Lecture	9-12	
8.	Program Highlights	13-14	
8.	Outcomes of the Guest Lecture	15	
9.	Attendance of the Students	16-17	
10.	Attendance certificate to the Guest	18	
11.	Photos of the Program	19-23	



**GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

Dt. 10.09.24

The Department of Chemistry is resolved to conduct a Guest lecture on "**Career Guidance through Chemistry in Various Fields**" on Dt.17.09.24 at 10 am On for all the Chemistry students in the seminar hall (Room no.5).

Guest Lecture Topic: Career Guidance through Chemistry in Various Fields

Resource person: Dr. Ch. Naga Babu,
Assistant professor,
H.O.D. of Chemistry,
AKNU Campus, Tadepalligudem.

Date: 17.09.24

Time: 10 AM

Venue: Seminar Hall (Room no.5)

Objectives of the Guest lecture:

- Awareness of Career Opportunities
- Guidance on Higher Education
- Industry-Specific Insights
- Research and Innovation
- Entrepreneurial Opportunities


Signature of the lecturer in charge
D.PALLAM RAJU

M.Sc
Lecturer in-charge
Department of Chemistry
MUMMIDIVARAM - 533216
Dr. B. R. Ambedkar Konaseema Dist, A.P.


Signature of the Principal
10.9.24

PRINCIPAL
GOVERNMENT DEGREE COLLEGE
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Dr. B. R. Ambedkar Konaseema Dt. A.P.



**GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

Dt. 11.09.24

From
D. Pallamraju, M.Sc.;
Lecturer-in-charge,
Department of Chemistry,
Mummidivaram - 533216,
Dr. B. R. Ambedkar Konaseema District.

To
The Principal,
Govt Degree College,
Mummidivaram-533216,
Dr. B. R. Ambedkar Konaseema District.

Respected sir,

Yes
11.9.24

SUB: Sri D. Pallamraju, Lecturer- in-charge, Department of chemistry, Govt Degree college, Mummidivaram – Request you to give permission to organize a Guest lecture on "Career Guidance through Chemistry in Various Fields" on 17-09-24-Req-Regarding.

@@@

I wish to submit the Department of Chemistry is going to conduct an Extension Lecture on "Career Guidance through Chemistry in Various Fields" on Dt.17-09-24 at 10 am on eve of "World Ozone Day" in this connection I would like to Invite Dr. Ch. Naga Babu, Assistant professor, Department of chemistry, Adikavi Nannaya university campus, Tadepalligudem as resource person. Hence, I request you sir kindly give me permission to organize a Guest lecture on Dt. 17-09-24. For this I ever thankful to you sir.

Thanking you sir,

Yours Faithfully,

D. Pallamraju
[D. PALLAMRAJU]

Lecturer in-charge,
Department of Chemistry,
GDC-Mummidivaram.

Station: Mummidivaram
Date : 11.09.24

Estb: 2021
Mail: gdcummdivaram.jkc@gmail.com

Office : 088562 93784
Principal: 9866668182



GOVERNMENT DEGREE COLLEGE,
MUMMIDIVARAM
Dr.B.R.AMBEDKAR KONASEEMA
DISTRICT- 533216



Dr.S.PRABHAKAR M.A., Ph.D
Principal

Mummidivaram,
Dt: 12-09-2024

To
The Special Officer,
AKNU Campus,
Tadepalligudem.

Sir/ Madam

Sub: - Request to depute Dr.CH.Nagababu, Assistant Professor, Department of Chemistry to deliver extension lecture on 17-09-2024 on the eve of WORLD OZONE DAY-Req-Reg.

@@@

I Wish to submit that in our college the Department of Chemistry is going to conduct an Extension Lecture on the eve of World Ozone Day on 17-09-2024. So, I request you to depute **Dr.CH.Nagababu, Assistant Professor, Department of Chemistry, AKNU Campus, Tadepalligudem** to deliver extension lecture on 17.09.2024 at 10 AM. Hence kindly relieve him to enable him to attend the extension lecture for which I shall ever be thankful to you.

Thanking you,

Yours faithfully,

Copy to Dr.CH.Nagabu,
Assistant Professor,
Department of Chemistry,
AKNU Campus,
Tadepalligudem.

B.P. 24
12.9.24
PRINCIPAL
GOVERNMENT DEGREE COLLEGE
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Not



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MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

Dt. 13.09.24

ACCEPTANCE LETTER

Date: 13-09-24,
Mummidivaram.

FROM

Dr. CH. NAGA BABU
HOD OF CHEMISTRY,
AKNU CAMPUS, TADEPALLIGUDEM.

TO

THE PRINCIPAL
GOVT. DEGREE COLLEGE,
MUMMIDIVARAM.

Respected Sir,

SUB: Acceptance of your invitation to deliver a Guest lecture-regarding.

I am pleasure to accept your invitation to deliver a Guest Lecture on “**Career Guidance through chemistry in various fields**” at Government Degree college, Mummidivaram on 17.09.24 at 10am. It is an honour to be considered for this opportunity and I am excited to share my insights and experiences with your students. Looking forward to a productive session with your bright students.

Best regards,

Ch. Naga Babu
(Dr. CH. NAGA BABU)



**GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

Dt. 13.09.24

NOTICE

It is here by inform to all the I B.Sc. (Chemistry honors), II B.Sc. (Chemistry honors), III B.Sc. (BZC) Students of that the **Department of Chemistry** is going to conduct a Guest Lecture on “Career Guidance through Chemistry in various fields” on Dt.17-09-24 at 10am on eve of “World Ozone Day”. Hence all the students are instructed to attend the above said programme without fail.

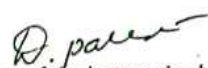
Guest Lecture: Career Guidance through chemistry in various fields

**Resource person: Dr. CH. NAGA BABU,
HOD of Chemistry,
AKNU Campus, Thadepalligudem.**

Date: 17-09.24

Time: 10 AM

Venue: Seminar Hall (Room No.5)


Signature of the lecturer in charge
D.PALLAM RAJU
M.Sc
Lecturer In-charge
Department of Chemistry
MUMMIDI VARAM - 533216
Dr.B.R.Ambedkar Konaseema Dist.-A.P.


Signature of the Principal
PRINCIPAL
GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM - 533 216
Dr.B.R. Ambedkar Konaseema Dt. A.P.



**GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Kona Seema District**

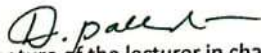


DEPARTMENT OF CHEMISTRY

Dt. 17-09-24

PROGRAMME SHEET

1. Inviting guests to the dais: Sri Kulkarni Nagesh Rao, Lecturer in political science
2. Prayer song : 1. D. Mahalakshmi (III BSc MPC'S)
2. T. Sowjanya (III BSc MPC'S)
3. About the program : Sri D. Pallamraju, Lecturer in Chemistry
4. Principal's remarks : Dr. S. Prabhakar, Principal
5. Introduction of the Resource Person: Dr. G. Sujatha, Lecturer in English
6. Guest lecture by Resource Person: Dr. Ch. Naga Babu,
Assistant professor,
HOD of chemistry,
AKNU Campus, Tadepalligudem.
7. Feed back by students : 1. L. Anusha III B.Sc.(BZC)
2. M. Vanitha II B.Sc. (Chemistry honors)
8. Felicitation to the Resource person: Principal, staff & students
9. Votes of thanks : Sri Mubin Mohammed, Lecturer in commerce
10. National Anthem : By all the participants


Signature of the lecturer in charge
D. PALLAM RAJU

M.Sc
Lecturer In-charge
Department of Chemistry
MUMMIDIVARAM - 533216
Dr. B. R. Ambedkar Kona Seema Dist, A.P.


Signature of the Principal

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**GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

Dt. 17.09.24

TOPIC SYNOPSIS

➤ **Introduction to chemistry careers:**

Discuss the various career paths available to chemistry graduates like Research, industry, academia etc.

➤ **Awareness of Career Opportunities:**

Introduce students to various career paths available in the field of chemistry, particularly in government organizations and research institutions like **BARC, ONGC, IOC, and DRDO.**

➤ **Government Job Opportunities:**

Highlight prominent government jobs available for chemistry graduates in

Organizations like: -

- **BARC** (Bhabha Atomic Research Centre): Opportunities in nuclear science, radiation safety, and material research.
- **ONGC** (Oil and Natural Gas Corporation): Roles in petrochemical analysis, chemical engineering, and environmental chemistry.
- **IOC** (Indian Oil Corporation): Positions in research and development, refining processes, and quality control.
- **DRDO CEPTAM** (DéfenCe Research and Development Organization): Roles in defence-related research and development, material science, and explosives.

➤ **Career Growth and Stability:**

Showcase the long-term career stability, growth potential, and prestigious roles that these government jobs offer for chemistry graduates.

➤ **Qualification Requirements:**

Inform students about the qualifications, exams, and preparation needed to enter these prestigious government sectors, like GATE, CEPTAM, and other recruitment processes.

➤ **Job Opportunities in Pharmaceutical Industry:**

1. Medicinal Chemist:

Role: Design and develop new pharmaceutical compounds.

Key Skills: Organic synthesis, drug design, structure-activity relationship (SAR) analysis.

Employers: Pharmaceutical companies, biotech firms, research institutions.

2. Pharmaceutical Research Scientist:

Role: Conduct research on new drugs, clinical trials, and pharmacological properties.

Key Skills: Analytical chemistry, pharmacokinetics, drug metabolism.

Employers: R&D departments of pharmaceutical companies, universities, government labs.

3. Formulation Scientist:

Role: Develop stable, effective, and safe drug formulations (tablets, capsules, injectables, etc.).

Key Skills: Understanding of excipients, stability studies, dosage forms.

Employers: Pharmaceutical manufacturing companies, contract research organizations (CROs).

4. Quality Control (QC) Analyst:

Role: Test and ensure the quality of raw materials, intermediates, and finished products.

Key Skills: Analytical techniques (HPLC, GC, spectroscopy), regulatory standards (GMP, GLP).

Employers: Manufacturing plants, contract laboratories, government agencies.

5. Quality Assurance (QA) Specialist:

Role: Ensure that products meet regulatory requirements and industry standards.

Key Skills: Auditing, compliance with GMP regulations, documentation.

Employers: Pharmaceutical companies, biotechnology firms, government regulatory bodies.

6. Production Manager:

Role: Oversee drug production processes, ensuring efficiency and quality.

Key Skills: Process optimization, management, GMP.

Employers: Pharmaceutical manufacturing facilities.

7. Biopharmaceutical Scientist:

Role: Work with biologics like vaccines, monoclonal antibodies, gene therapy.

Key Skills: Biotechnology, molecular biology, cell culture techniques.

Employers: Biotech firms, R&D labs, pharmaceutical companies.

8. Drug Safety Officer:

Role: Ensure the safety of pharmaceutical products by analyzing side effects and risks.

Key Skills: Risk assessment, pharmacology, clinical trial analysis.

Employers: Pharma companies, CROs, regulatory bodies.

9. Pharmaceutical Sales Representative:

Role: Promote and sell drugs to healthcare professionals and hospitals.

Key Skills: Communication, market knowledge, customer relationship management.

Employers: Pharma companies, medical marketing agencies.

➤ **Research and Innovation:**

Encourage students to pursue research roles in laboratories and organizations that focus on cutting-edge technology and innovation in chemistry.

➤ **Global opportunities and Research Funding:**

- Scholarships, fellowships and global research opportunities for chemistry graduates.
- Mention major funding agencies and grants like CSIR, UGC, DST and International scholarships.
- Scope for collaborations with foreign universities and Industries.

➤ **Skill Development:**

Emphasize the importance of developing practical skills in chemistry, including lab techniques, analytical skills, and knowledge of chemical safety.

➤ **Higher Education and Specializations:**

Discuss the need for higher education (Master's, PhD) in specific branches of chemistry to improve job prospects and eligibility for roles in these organizations.

➤ **Chemistry in Environmental protection:**

Highlight the role of chemists in ozone layer protection and Environmental conservation.

➤ **Emerging Fields:**

Mention current trends in chemistry like Green Chemistry, Nano technology, Biotechnology.

➤ **Entrepreneurship in Chemistry:**

Discuss starting ventures in chemical manufacturing, sustainable solutions, etc.



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Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

PROGRAM HIGHLIGHTS

- **Welcome Address:** The event began with a welcome address by **Sri Kulkarni Nagesh Rao**, Head of the Department of Political science. He introduced the guest speaker, **Dr.Ch. Naga Babu** and gave a brief overview of the significance of career planning in the field of chemistry.

- **Principal's Remarks:** **Dr. S. Prabhakar**, appreciated the efforts of the chemistry Department for organizing a timely and insightful Guest lecture on “**Career Guidance through chemistry in various fields**”. In their address, they emphasized the following:
 - **Importance of chemistry:** “Chemistry is not just a subject; it’s a pathway to solve critical global challenges like environmental protection and healthcare”.
 - **Career opportunities:** There is a wide range of career opportunities in the field of chemistry, from drug discovery in pharmaceuticals to environmental conservation. I urge our students to explore these fields and aim for excellence”.
 - **Student motivation:** “I encourage our students to pursue higher education, enhance their skills, and make the most of the opportunities available to them in both government and private sectors”.

The principal concluded by thanking the organizers and expressed optimism about the bright future awaiting the students in chemistry related fields.

- **Guest Lecture: Dr.Ch. Naga Babu** delivered an engaging and informative lecture on various career prospects in chemistry. He discussed opportunities in both public and private sectors, including research, academia, industry (pharmaceuticals, petrochemicals, etc.), and government services like forensic sciences.
- **Discussion on Emerging Fields: Dr.Ch. Naga Babu** emphasized the growing importance of interdisciplinary fields such as biochemistry, nanotechnology, and environmental chemistry. He advised students on how to pursue higher studies and the importance of staying updated with technological advancements.
- **Q&A Session:** The session was followed by an interactive question-and-answer segment, where students asked about career pathways, the role of internships, and how to choose specialization areas. **Dr. Ch. Naga Babu** provided practical advice and encouraged students to explore diverse fields.
- **Feedback:** The feedback from the students was overwhelmingly positive. Many students mentioned that the lecture clarified their doubts about career choices and motivated them to pursue higher education. The interactive session was particularly appreciated.



**GOVERNMENT DEGREE COLLEGE
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Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

OUTCOMES OF THE GUEST LECTURE

Students will be able to

- Identify Diverse career paths
- Develop career plans
- Recognize the importance of Chemistry in Environmental protection
- Gain awareness of Higher Education Opportunities
- Understand Industry Requirements
- Explore Emerging Fields
- Build Professional Networks
- Acquire tips and strategies for prepare Competitive Exams



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DEPARTMENT OF CHEMISTRY

TOPIC: Career Guidance through chemistry in various fields

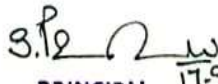
Dt. 17.09.24

Time: 10AM

GUEST LECTURE ATTENDANCE SHEET

S.NO	GROUP	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT	REMARKS
1.	BSc(Chem)	Moka Satya Sri	M. Satya Sri	
2.	BSc(Chem)	B. Mahalakshmi	B. Mahalakshmi	
3.	BSc(Chem)	B. Bhargavi Lakshmi	B. B. Lakshmi	
4.	BSc(Chem)	G. Bhavana Vijaya Sree	G. B. V. Sree	
5.	BSc(Chemistry)	K. Sai Gauga Pravalina	K. S. G. Pravalina	
6.	BSc-BZC	Ch. Y. P. Sowjanya	Ch. Y. P. Sowjanya	
7.	BSc-BZC	G. Hemasri	G. Hema Sri	
8.	BSc-BZC	J. Priyanka	J. Priyanka	
9.	BSc-BZC	K. Anitha	K. Anitha	
10.	BSc-BZC	L. Anusha	L. Anusha	
11.	BSc-BZC	M. Divya Jyothi	M. Divya Jyothi	
12.	BSc-BZC	S. Poojitha	S. Poojitha	
13.	2 nd B.Sc (Chem)	M. Vanitha	M. Vanitha	
14.	2 nd B.Sc (Chemistry)	M. Neena Gayathri	M. Neena Gayathri	
15.	2 nd B.Sc Chemistry	K. Hema Satya Sri	K. Hema Satya Sri	

S.NO	GROUP	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT	REMARKS
16	BSC-BZC	B. Uma Sai	B. Umasai	
17	BSC-BZC	P. Sravan	P. Sravan	
18	BSC-CBZ	Ch. Sruthi	Ch. Soathi	
19	BSC-BZC	M. S.L.S. Sudha Rani	M. S.L.S. Sudha Rani	
20	BSC-BZC	M. Mani Kumari	M. Mani Kumari	
21	BSC-BZC	N. Lakshman	N. Lakshman	
22	BSC(chem)	G. Yogendhra	G. Yogendhra	
23	BSC(chem)	B. Murali Ram Kumar	B. M. Ram Kumar	
24	BSC (BZC)	R. Bhaskara Durgaveesh Prasad	R. B.D.V. Prasad	
25	BSC (chem)	S. Vinay Varma	S. Vinay	
26	BSC (chem)	P. Vali Baba	P. Vali Baba	
27	BSC (chem)	M. Chaitanya	M. Chaitanya	
28	BSC (chem)	P. Venkata Naveen	P.V. Naveen	
29	BSC (Chemistry)	D. Naga Sanjay	D. N. Sanjay	


 17-9-24
 PRINCIPAL
 GOVERNMENT DEGREE COLLEGE
 MUMMIDIVARAM - 533 216
 Dr. B.R. Ambedkar Konaseema Dt. A.P.
 Now

Estb: 2021
Mail: gdcummdivaram.jke@gmail.com

Office : 088562 93784
Principal: 9866668182



GOVERNMENT DEGREE COLLEGE,
MUMMIDIVARAM
Dr.B.R.AMBEDKAR KONSEEMA
DISTRICT- 533216



Dr.S.PRABHAKAR M.A., Ph.D
Principal

Mummidivaram,
Dt: 17-09-2024

ATTENDANCE CERTIFICATE

This is to certify that Dr.Ch.Nagababu, Assistant Professor of Chemistry, AKNU, Tadepalligudem attended and delivered a talk on “**Career Guidance in Chemistry in various fields**” on 17.09.2024 on the eve of World Ozone Day at Government Degree College, Mummidivaram. The Lecture is very useful to educate and enlighten our students about the avenues in the field of Chemistry.

Received
Ch. N. B. B.
17/09/24.

S. P. R. 17.9.24
PRINCIPAL
PRINCIPAL
GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM - 533 216
Dr.B.R. Ambedkar Konaseema Dt. A.P.
17/9/24



**GOVERNMENT DEGREE COLLEGE
MUMMIDIVARAM – 533216
Dr. B. R. Ambedkar Konaseema District**



DEPARTMENT OF CHEMISTRY

Dt.17.09.24

PHOTOS OF THE PROGRAM





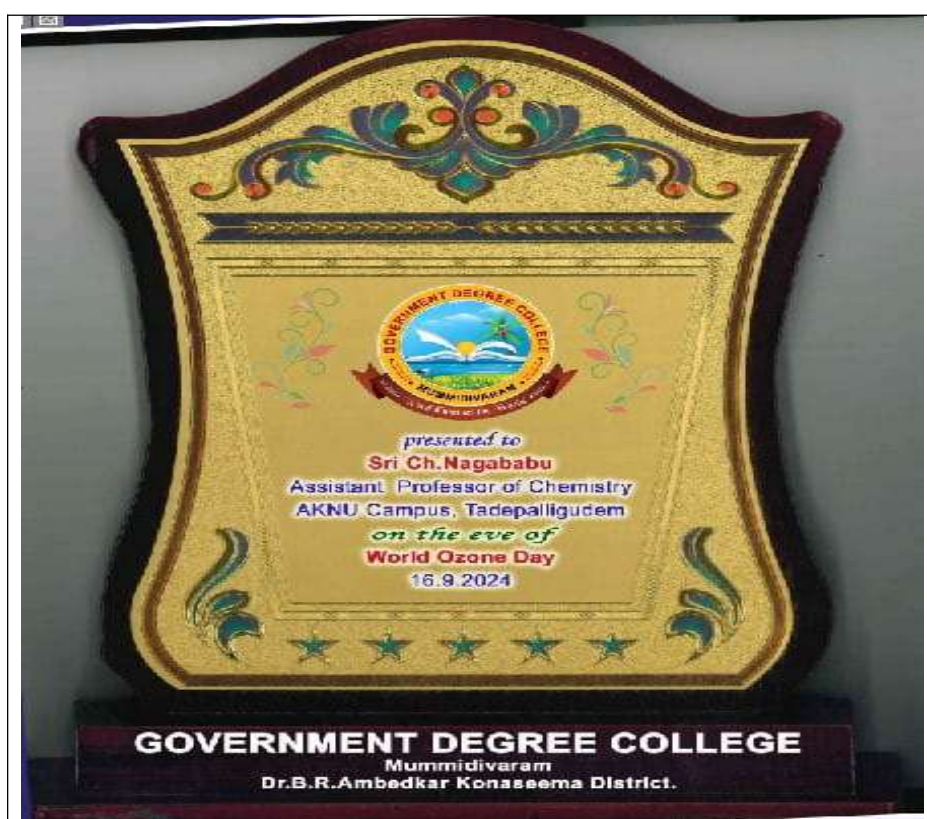
Opening remarks by the principal: Dr. S. PRABHAKAR Garu



Prayer Song by final year students: D. Mahalakshmi, T. Sowjanya



Guest Lecture by Dr. Ch. Naga Babu, Assistant professor, AKNU Campus, Tadepalligudem



Felicitation to the Resource Person by Principal, Staff & Students



Vote of Thanks by Sri Mubin Mohammed, Lecturer in commerce



National Anthem by Principal, Staff and Students

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