

NAAC III CRITERIA

RESEARCH INNOVATION

&

EXTENSION ACTIVITIES



CONVENOR

Dr.B.VENKATESWARLU.MSC,PhD

Asst.Professor of Chemistry

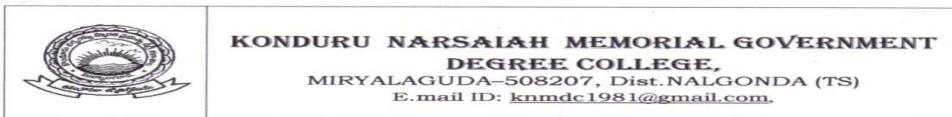
QnM

3.2.2 INTELLECTUAL PROPERTY RIGHTS (IPR)

The term Intellectual property is related to human brain allied for creativity and invention. Various efforts in terms of on puts of Manpower, Time, Energy, Skill, Money etc are required to invent or create something new.

On the basis of type of invention and creation of human mind and their application the IPR are classified as follows.

1. Patents
2. Trade marks
3. Industrial Designs
4. Layout Design of Semiconductor Integrated Circuit
5. Geographic Indications of Source
6. Copyright and Related Rights(Literary and Artistic Work, Musical Work, Photo Graphic Work, Motion Pictures, Computer Programms and Performing Arts and broad casting work)



Date: 28.01.2019

INTELLECTUAL PROPERTY RIGHT ESTABLISHMENT

All the Staff Council Members are decided and resolved establishment of IPR (Intellectual Property Right) under the Chairmen ship of Dr.B.Venkateswarlu, Assistant Prof.of Chemistry and Vice-Principal for the purpose of Industry Academia Innovative Practices Workshops and Seminars useful to students further recognition received for Extension activities from Government/Recognized Bodies.


STAFF COUNCIL & PRINCIPAL (FAC)
KNM GDC, MIRYALAGUDA
i-c Principal
KNM Govt. Degree College
Miryaiguda.

IPR (Spirit of giving) 2019



3.3.3 NUMBER OF RESEARCH PAPERS

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
01 QSAR AND DOCKING STUDIES OF APHOPHINE DERIVATIVES AS EFFICACIOUS PARTIAL ANTAGONISTS FOR PARKINSONS DISEASES			01 A STRUCTURE BASED QSAR AND DOCKING STUDIES OF DONEPZIL DERIVATIVES AS SELECTIVE AChE INHIBITORS	01 ANTIBACTERIAL STUDIES OF ECO-FRIENDLY PHYTO SYNTHESIZED PVA CAPPED AgNPs USING PASSIFLORA EDULIS



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Rapid and Easy Publishing

The "International Journal of Pharma and Bio Sciences" (IJPBS) is an international online journal in English published quarterly. The aim of IJPBS is to publish peer reviewed research and review articles rapidly without delay in the developing field of pharmaceutical and biological sciences.

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Int J Pharm Bio Sci 2013 Oct; 4(4): (P) 558 - 577

Research Article

Bioinformatics



International Journal of Pharma and Bio Sciences

ISSN
0975-6299

CORRELATION OF 5, 6, 7, 8-TETRAHYDROACRIDINE BASED SCAFFOLD INHIBITORY AGENTS FOR ALZHEIMER DISEASE.

VENKATESWARLU BOLISETTY* AND MANAIAH.V¹

¹Department of Chemistry, K.N.M G.D.C, Miryalaguda, A.P, INDIA - 508207.

²Department of Chemistry, Osmania University, Hyderabad, INDIA - 500007.

ABSTRACT

Alzheimer's disease (AD) is a progressive neurodegenerative disorder and one of the most common causes of dementia in the elderly. Acetylcholine sterase (AChE) inhibitors are the main drugs used in the treatment of AD. In this work, docking studies have been performed in order to understand the interaction between 5, 6, 7, 8-tetrahydroacridine inhibitor and AChE. The increase observed in the calculated binding affinities between inhibitor and AChE, reflect the experimental inhibitory activity expressed in terms of the half maximal inhibitory concentration (IC₅₀ = 0.002 to 13.0 µm) of the above inhibitor. The AM1 and PM3 semi-empirical methods are used to estimate the predictive power of final QSAR equations. QSAR and molecular docking studies indicated that, 2-chloro, 9-amine derivative of 5, 6, 7, 8-tetrahydroacridine showed the highest percentage of concentration and can become a potential lead for treating Alzheimer's disease.

KEYWORDS: Inhibitor, 5, 6, 7, 8-tetrahydroacridine derivatives, QSAR, Semi-empirical methods, Regression analysis, DOCKING, AChE.



VENKATESWARLU BOLISETTY

Department of Chemistry, K.N.M G.D.C, Miryalaguda, A.P, INDIA - 508207.

*Corresponding author



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Int J Pharm Bio Sci 2014 Jan; 5(1): (P) 465 - 480

Research Article

Bioinformatics



International Journal of Pharma and Bio Sciences

ISSN
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QSAR AND DOCKING STUDIES OF APHOPHINE DERIVATIVES AS EFFICACIOUS PARTIAL ANTAGONISTS FOR PARKINSON'S DISEASE

VENKATESWARLU BOLISETTY^{1*}, NAGESWAR RAO.K AND MANAIAH.V

¹Department of Chemistry, K.N.M.G.D.C, Miryalaguda-508 207, INDIA

Department of Chemistry, Osmania University, Hyderabad-500007, INDIA.

ABSTRACT

Parkinson's disease is caused due to enhanced dopaminergic activity in the substantia nigra, a region of the midbrain. Dopamine Receptors are the main drugs used in the treatment of Parkinson's disease. In this work, docking studies have been performed in order to understand the interaction between Aphorphine inhibitor and Dopamine Receptors (D2). An increase in the calculated binding affinities between inhibitor and D2, reflects the experimental inhibitory activity, expressed in terms of the half maximal inhibitory concentration (IC₅₀), which is found to be in the range 0.0004 to 11.5 µm, for the inhibitors employed. The AM1 and PM3 semi-empirical methods have been used to estimate the predictive power of final QSAR equations. QSAR coupled with molecular docking studies indicated that, [6aR]-6, 10 dimethyl-5, 6, 6a, 7-tetrahydro-4H dibenzo [de, g] quin derivative of Aphorphine showed the highest percentage of concentration and can become a potential lead for treating Parkinson's disease.

KEYWORDS: Inhibitor, Aphorphine derivatives, QSAR, Semi-empirical methods, Regression analysis, DOCKING, DOPAMINE Receptors (D2).



VENKATESWARLU BOLISETTY

Department of Chemistry, K.N.M.G.D.C, Miryalaguda-508 207, INDIA.

*Corresponding author

UGC Sponsored Two Day National Seminar on
GREEN CHEMISTRY FOR SUSTAINABLE DEVELOPMENT (GCS)-2017

April 06 - 07, 2017 at Government Degree College,
 Jammikunta, Karimnagar, Telangana State, India

**A Structure-Based Qsar And Docking Studies On Donepezil Derivatives As
 Selective Ache Inhibitors**

Dr. B. Venkateshwarlu

Department of Chemistry, K.N.M G.D.C, Miryalaguda, T.G. INDIA -508207.
 Email - venkateswarlu.bolisetty@gmail.com

1. INTRODUCTION:

Donepezil Derivatives marketed under the trade name Aricept and now sold as a generic by multiple suppliers, is a centrally acting reversible acetylcholinesterase inhibitor. Its main therapeutic use is in the palliative treatment of Alzheimer's disease. Donepezil Derivatives should be used with caution in people with cardiac disease. The precise mechanism of action of Donepezil Derivatives as selective Antagonist in patients with Alzheimer's disease [42]. Certainly Alzheimer's disease involves a substantial loss of the elements of the cholinergic system and it is generally accepted that the symptoms of Alzheimer's disease are related to this cholinergic deficit, particularly in the cerebral cortex and other areas of the brain. Donepezil and their derivatives binds and inactivates reversibly the cholinesterases, thus inhibiting hydrolysis of acetylcholine. This results in an increased acetylcholine concentrations at cholinergic synapses. Acetylcholinesterase (AChE) inhibitors are the main drugs used in the treatment of Alzheimer's disease. In this work, docking studies have been performed in order to understand the interaction between inhibitor and AChE. The increase observed in the calculated binding affinities between inhibitor and AChE, reflects the experimental inhibitory activity expressed in terms of the half maximal inhibitory concentration ($IC_{50} = 0.0092$ to $36.8 \mu\text{m}$) of the above inhibitor. The AM1 and PM3 semi-empirical methods are used to estimate the predictive power of final QSAR equations. QSAR and molecular docking studies indicated that, (1-benzylpiperidyl)5,6-dimethoxy,2,3-dihydro indene-1-one derivative of Donepezil showed the highest percentage of concentration and can become a potential lead for treating Alzheimer's disease. The loss of memory is directly correlated with the abridged cholinergic neurotransmission, caused by the pronounced diminish in the levels of the neurotransmitter [7-9]. AChE abnormal activity of human acetylcholinesterase (hAChE), the enzyme responsible for hydrolysis of AChE, was attributed to the reduced level of AChE. Treating AD was achieved through inhibiting the anomalous action of AChE by various specific AChE inhibitors such as

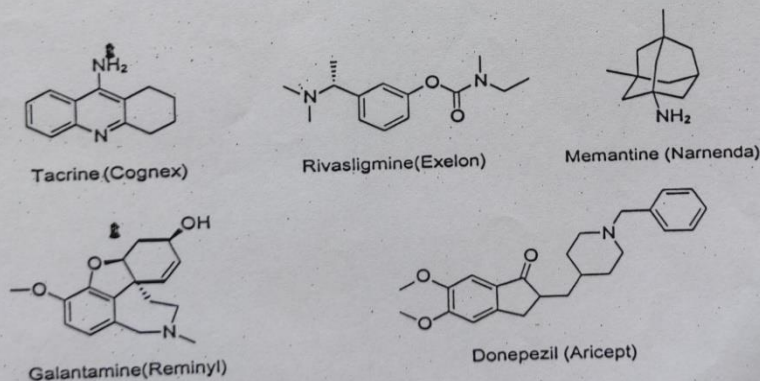


Fig1: Marketed drugs for the treatment of Alzheimer's disease.

Donepezil Derivatives is reversible acetylcholinesterase inhibitors that readily crosses the blood-brain barrier to reduce the breakdown of acetylcholine is too basic heterocyclic compound. It is a raw material used for the production of dyes and some valuable drugs. Many Donepezil Derivatives also have antiseptic properties. Donepezil Derivatives and related derivatives bind to DNA and RNA through intercalation mode [10-12].

2. MATERIALS AND METHODS

Bioassay: In the present investigation bioassay of 15 derivatives of Donepezil found in the literature [39] whose IC_{50} values are known. The criteria for selection of molecules are

ANTIBACTERIAL STUDIES OF ECO-FRIENDLY PHYTO SYNTHESIZED PVA CAPPED AgNPs USING PASSIFLORA EDULIS

Sandupatla Raju¹, Bolisetty Venkateswarlu², Dongamanti Ashok^{3*}

¹Research scholar, ²Degree lecturer, ³Assistant professor,
Green and Medicinal Chemistry Laboratory, Department of Chemistry, Osmania University,
Hyderabad-500007, Telangana, India.

Email address: ¹rajusandupatla5@gmail.com, ²venkateswarlu.bolisetty@gmail.com,
³ashokdou@gmail.com.

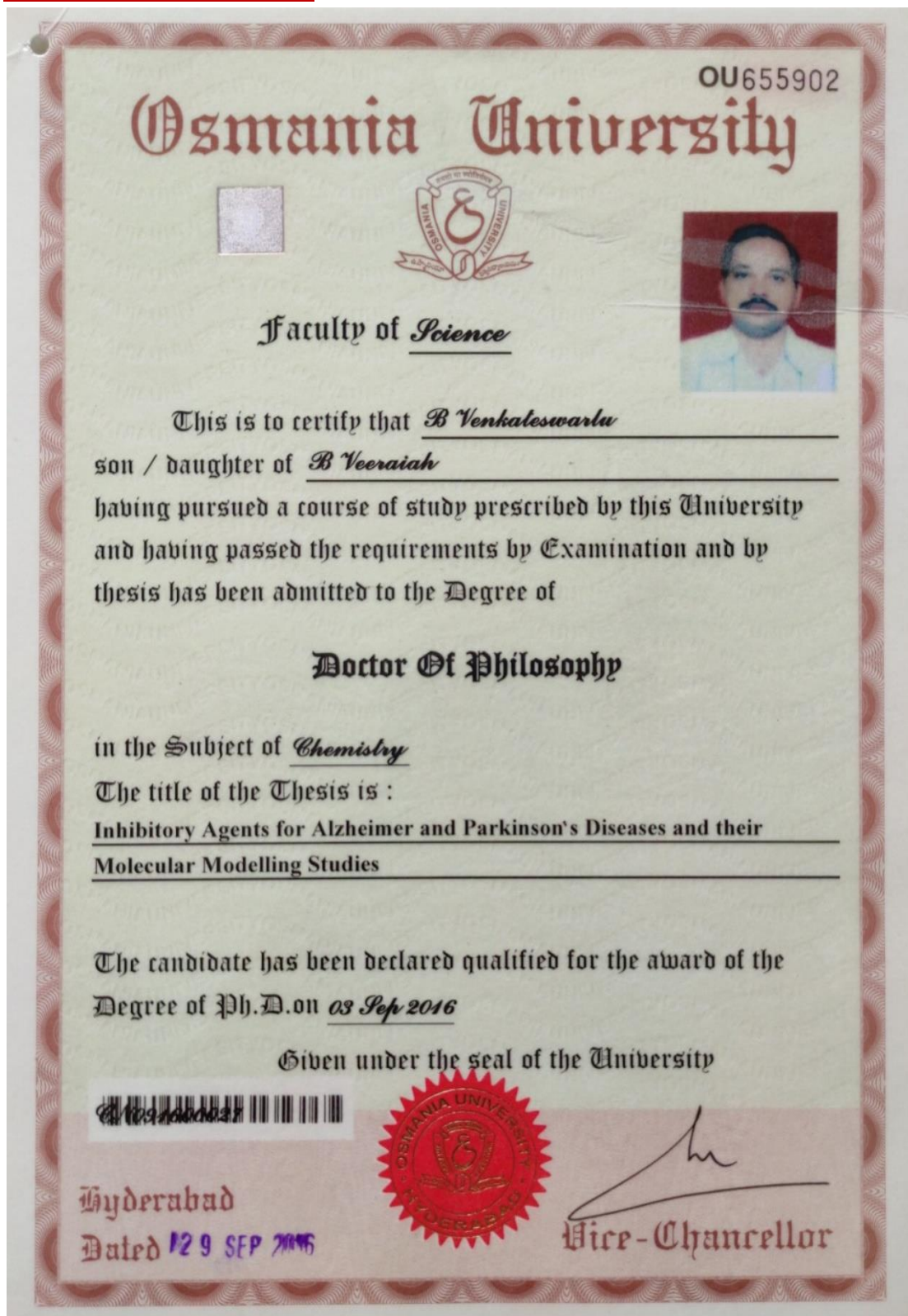
Abstract: The cutting-edge investigation reports about the evaluation of antibacterial studies of AgNPs (AgNPs) using an aqueous leaf extract of *Passiflora edulis* as reducing agent and polyvinyl alcohol (PVA) as a capping agent. This is simple, one pot, and rapid, eco-friendly, non-toxic and cost-effective method for the synthesis of AgNPs. Synthesis of AgNPs using plant extract has more advanced biological applications as they are the sources of the active compounds which were used in many medical remedies. So this active compound of phytochemicals from the *Passiflora edulis* plant extracts acts as a reducing agent for the synthesis of AgNPs. The synthesized PVA capped AgNPs were characterized by using diversified instrumental techniques such as UV-Vis spectroscopy reveals the formations of AgNPs as they depicting maximum absorption peak at 436 nm due to surface plasmon resonance. The Fourier transform infrared spectroscopic studies were conducted to know the phytochemicals responsible for the synthesis of AgNPs from the studies of the vibration bands of functional groups. The crystalline nature of the synthesized AgNPs had been studied by X-ray diffraction studies and the average particle size was found to be 24 nm calculated using Debye-Scherrer formula. The morphology of the AgNPs was studied by Scanning electron microscopy and the elemental signal profile carried out automatically with Energy dispersive spectroscopy, which coupled with SEM as it shows spherically shaped particles and the energy dispersive spectroscopy data showing a good atomic and weight content of stable silver. The characterized AgNPs afterward used for the antibacterial studies of the four harmful bacteria *Escherichia coli*, *Bacillus subtilis*, *Pseudomonas putida*, and *Staphylococcus aureus*, which exhibited high activity. The conducted studies constitute the premise for further investigations of the potential use of AgNPs as a chemotherapeutic.

Keywords: PVA capped AgNPs, *Passiflora edulis*, Scanning electron microscopy, X-ray diffraction, Antibacterial studies

1. INTRODUCTION:

Currently, the nanoscience and nanotechnology become a broader area because of its increase of usage in the many fields. Nanoparticles possess advanced applications based on their particle size, distribution, capping agents, shape, and other morphological features. They show difference in properties and applications while compared to their bulk state because they have a large volume to surface ratio as particle size decreases the volume to surface ratio was increased due to this fact, nanotechnology becomes the most emerging area in the

3.3.4 PhD AWARDS



**"INHIBITORY AGENTS FOR ALZHEIMER AND PARKINSON'S
DISEASES AND THEIR MOLECULAR MODELLING STUDIES**

A THESIS

SUBMITTED FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

In CHEMISTRY



TO

OSMANIA UNIVERSITY

BY

B. VENKATESWARLU

2016

DEPARTMENT OF CHEMISTRY

OSMANIA UNIVERSITY

HYDERABAD-TELANGANA-INDIA-500007

విద్యార్థుల కెమిస్ట్రీ కల్పతరువుకు Ph.D ప్రధానం



డా॥ బి. వెంకటేశ్వర్లు

గురువు, మిత్రుడు, ప్రయోధిలాపి, స్వామీకుడు, నిజాయితీపరుడు, పర్యవరణవేత్త ఎంత ఎదిగినా ఒదిగి ఉండే సలహాదారుడు నిరంతర అన్వేషి మా ఆర్గానిక్ కెమిస్ట్రీ వెంకటేశ్వర్లు సారు. తెలంగాణ రాష్ట్రం, నల్లగొండ జిల్లా గరిడేపల్లి మండలం, పానుగోడు గ్రామంలో బొలిసెట్టి వీరయ్య రామచంద్రమ్మ గార్లు చివరి సంతానం. గ్రామీణ ప్రాంతాల పేద విద్యార్థుల ప్రతిభను వెలికితీయడానికి మిర్యాలగూడ కె.ఎన్.ఎమ్.డిగ్రీ కళాశాల కేంద్రంగా వివిధ స్థాయిలలో సుమారు లక్షమంది విద్యార్థులకు సబ్జెక్టు పట్ల ఉన్న భయాన్ని పోగొట్టి ఉన్నత స్థానాలలో స్థిరపడుతున్న భవిష్యత్ తీర్చిదిద్ది వారి కెమిస్ట్రీ నోటు పుస్తకాలను ఎప్పటికీ పదిలంగా దాచుకొనేలా విద్యార్థులను ముఖించిన స్వామీకుడు. తన పూర్వ విద్యార్థుల ఎదుగుదలనే తాను స్ఫూర్తిగా తీసుకొని ఎటువంటి ప్రభుత్వ సహాయం లేకుండానే తన విభాగం పరిధిని దాటి మానవాళికి ఉపయోగపడే అంశాలలో ముఖ్యంగా "అల్టీమర్ మరియు పార్కిన్సన్ వ్యాధులకు నిరోధక మందుల రూపకల్పన" అంశాలలో విశ్లేషణలు జరిపి అంతర్జాతీయ పరిశోధన వ్యాసాలతో పి.హెచ్.డి. పూర్తి చేసిన నిరంతర అన్వేషి. తెలంగాణ ఉద్యమానికి ప్రభావితమై కె.సి.ఆర్ గారి తొలి పాదయాత్రలో మూసీనది వంతెనపై స్వాగతం పలికి, నదీమ తల్లికి రాగి నాణెంను సమర్పించే సందర్భంలో ఆత్మబంధువులా ప్రక్కనే ఉండి, తెలంగాణ మట్టి మనుషుల ఘోరం ఏర్పాటు చేయుటలో సలహాదారుడు.

1. ఆవేశంలా కాలక్రియనుదాన్ని ఆలోచనతో సాధించు
- బి.వెంకటేశ్వర్లు

కుటుంబసభ్యులు

ఇట్లు: పూర్వ మరియు ప్రస్తుత విద్యార్థులు

- 1). Dr. V. Venkat Reddy - MIT-USA
- 2). Dr. P. Nagi Reddy - US Immigrant
- 3). Dr. B. Nagendra Babu - I.I.C.T
- 4). Dr. J. Praveen Reddy - US Immigrant

3.3.5 NUMBER OF PUBLICATIONS, BOOKS AND CHAPTERS

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
			01	01

**“INHIBITORY AGENTS FOR ALZHEIMER AND PARKINSON’S
DISEASES AND THEIR MOLECULAR MODELLING STUDIES**

A THESIS

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**GREEN CHEMISTRY FOR
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(GCSD -2017)

6th & 7th APRIL, 2017



Organized by

Department of Chemistry

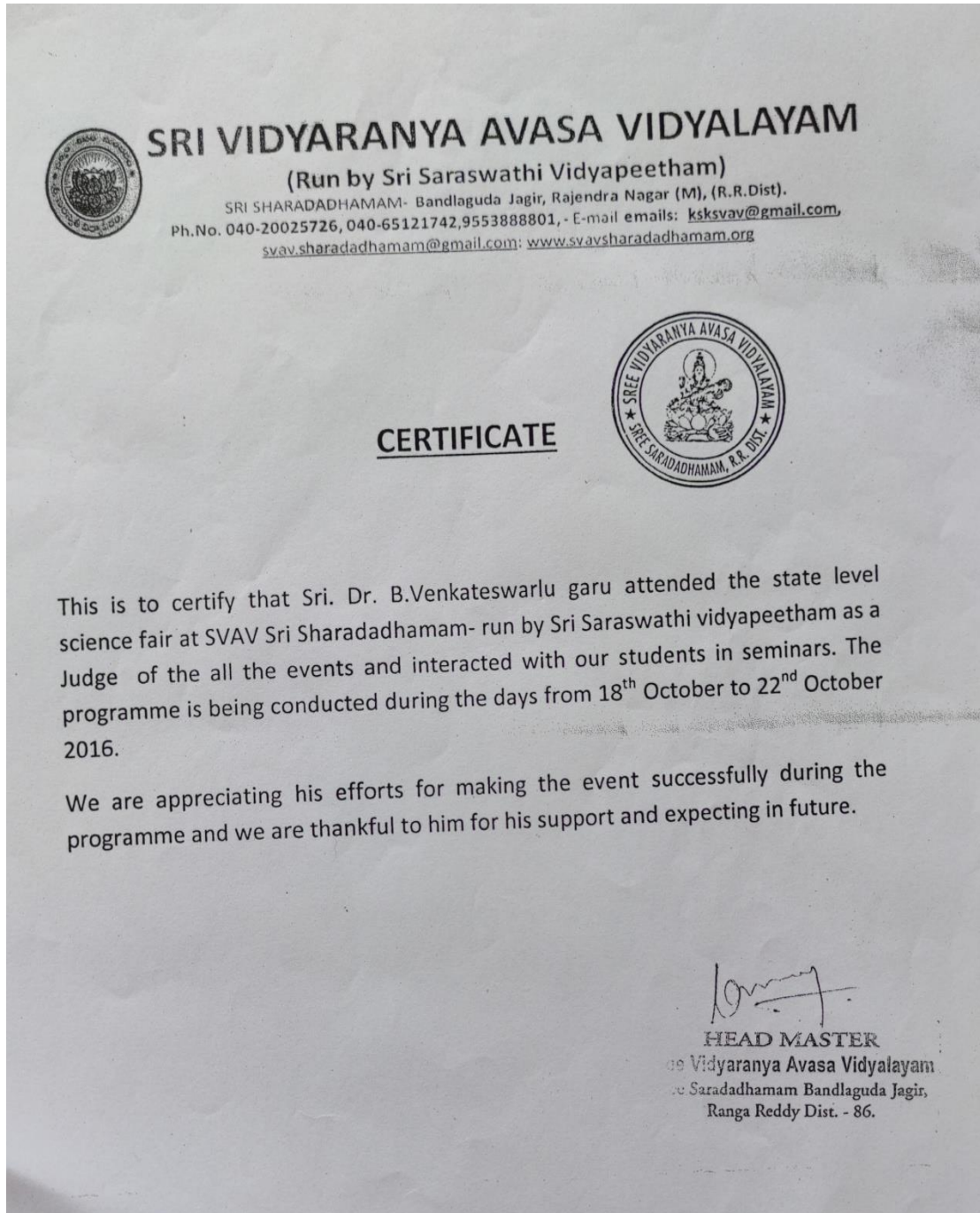
Government Degree College, Jammikunta

Re-accredited by NAAC with 'B' Grade (Cycle 2)

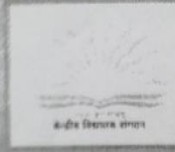
Dist. Karimnagar, Telangana State

3.4.2 NUMBER OF AWARDS EXTENSION ACTIVITIES

In 2016-2017 Act As a judge for inter states science faire at SVAV



In 2018-2019 Act As a subject Expert for selection at KENDRIYA VIDYALAYA


	Estd : 2014 केन्द्रीय विद्यालय मिर्यालगूडा KENDRIYA VIDYALAYA MIRYALAGUDA (Ministry of H.R.D., Govt. of India) OPP. NSP CAMP GROUND, MIRYALAGUDA TOWN, NALGONDA DISTRICT, TELANGANA STATE - 508207 फोन नंबर / PHONE No (08689) 240123 Website: kendriyalaguda.org ईमेल / E-Mail: kvmiryalaguda@gmail.com
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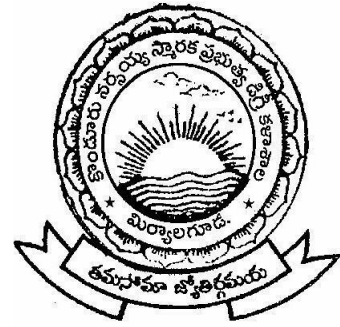
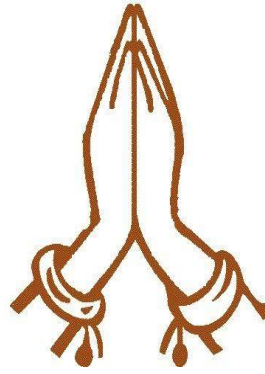
F.1-13/KVMLG/2018-19/ Date: 23.02.2019

ATTENDANCE CERTIFICATE

It is to certify that the following Educationists have attended Kendriya Vidyalaya Miryalaguda on 23.02.2019 as subject experts to prepare the panel of teachers purely on Part-time/Contractual basis through walk-in-interview conducted on 23.02.2019 (Saturday) for the academic session 2019-20.

1. Dr. B. VENKATESHWARLU, Asst Prof. of Chemistry, KNM Govt. Degree College
2. Smt. K. SHIVA RANI, Lecturer in Botany, KNM Govt. Degree College
3. Mr. P.VENKATESWARLU, Lecturer in Mathematics , KNM Govt. Degree College
4. Mr. E. MADHUSUDHAN, Lecturer in English, KNM Govt. Degree College


23-02-2019
(KAMAL PRASAD PATADE)
केन्द्रीय विद्यालय मिर्यालगूडा
KV-MIRYALAGUDA
वि. मिर्यालगूडा, नालगोंडा जिला
Dist. Nalgonda, Telangana State
पिन / Pin - 508 207



NAAC III CRITERIA

RESEARCH INNOVATION

&

EXTENSION ACTIVITIES



CONVENOR

Dr.B.VENKATESWARLU

Asst.Professor of Chemistry

QIM

3.2.1 AVAILABLE INCUBATION CENTRE

Host institutes (HIS) are reputed Technology, management and R & D institutes of the state and other institutions their organizations focused on entrepreneurial development and promotion to setup incubators to galvanize the startup eco systems in the state. Government of Telangana (GOT) has launched a Technology Incubation Centre (T-Hub) at IIIT –Hyd campus in Hyderabad.

Similarly Spirit of giving through career guidance cell along with Chemistry Department in KNMDC without supporting of Ltd.Companies, most of the outgoing students were settled in various fields like Research, Innovation, Service Commission, Teaching, Police, and Revenue Departments. Some of students were settled in very good positions in worldwide, they are

- 1) Dr.M.Janaki RamRedy MSc, PhD, US Immigrant, Green card holder
- 2) Dr.J.PraveenRedy MSc, PhD, US Immigrant, Green card holder
- 3) Dr.P.Nagi Redy MSc, PhD, US Immigrant, Green card holder
- 4) Dr.S.Raja shekarRedy MSc, PhD, US Immigrant, Green card holder
- 5) Dr.M.SomiRedy MSc, PhD, PostDoc at Switzerland
- 6) Dr.V.VenkatRedy MSc, PhD, Post Doc MIT in US Immigrant, Green card holder
- 7) Dr.M.Srinivas MSc, PhD, Working as Associate professor at OU
- 8) Dr.B.Venkat lingam MSc, PhD, Young scientist CSIR-IICT
- 9) Dr.S.MallaReddy MSc, PhD Managing Director for Startup Company
- 10) Dr.M.JanakiRamReddy MSc, PhD working as a senior scientist at Hetero Labs
- 11) Dr.M.Ravinder, MSc, PhD working as a senior scientist at clear synch Labs.
- 12) Dr.P.Sundar Ram Reddy, MSc, PhD, Working as a senior scientist at GVK BIO Labs.
- 13) Dr.P.Bhasker, MSc, PhD working as a senior scientist at Newland Labs.
- 14) Dr.V.SaidiReddy MSc, PhD, Working as Academic consultant at Mumbai.
- 15) P.Ravikumar MSc Asst.PProfessor of chemistry
- 16) K.Sailaja MSc Software
- 17) Mr.P.vijay, Working as group leader at IBM-Hyderabad.
- 18) Mr.B.Vijay bhasker Reddy, Working as consultant overseas companies.

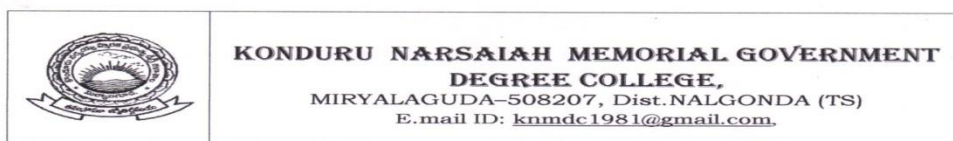
So many students were settled in Reddy labs situated at Thripuraram ,HYDERABADand MUMBAY. Thousands of students were settled as Government and Non-Government Lecturers for PG, Degree and Junior colleges, Teachers as School Assistants, SGT, Higher to Lower cadre In the police department (DSP, CI, SI, Constables) Other groups of services like Secretariat, Local bodies etc..

3.2.2 INTELLECTUAL PROPERTY RIGHTS (IPR)

The term Intellectual property is related to human brain allied for creativity and invention. Various efforts in terms of on puts of Manpower, Time, Energy, Skill, Money etc are required to invent or create something new.

On the basis of type of invention and creation of human mind and their application the IPR are classified as follows.

1. Patents
2. Trade marks
3. Industrial Designs
4. Layout Design of Semiconductor Integrated Circuit
5. Geographyc Indications of Source
6. Copyright and Related Rights(Literary and Artistic Work, Musical Work, Photo Graphic Work, Motion Pictures, Computer Programms and Performing Arts and broad casting work)



Date: 28.01.2019

INTELLECTUAL PROPERTY RIGHT ESTABLISHMENT

All the Staff Council Members are decided and resolved establishment of IPR (Intellectual Property Right) under the Chairmen ship of Dr.B.Venkateswarlu, Assistant Prof.of Chemistry and Vice-Principal for the purpose of Industry Academia Innovative Practices Workshops and Seminars useful to students further recognition received for Extension activities from Government/Recognized Bodies.

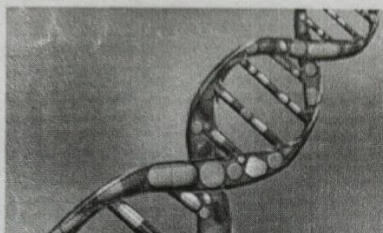

28/1/2019
STAFF COUNCIL & PRINCIPAL (FAC)
KNM GDC, MIRYALAGUDA
i-c Principal
KNM Govt. Degree College
Miryalguda.

IPR (Spirit of giving) 2019



3.3.3 NUMBER OF RESEARCH PAPERS

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
01 QSAR AND DOCKING STUDIES OF APHORPHINE DERIVATIVES AS EFFICACIOUS PARTIAL ANTAGONISTS FOR PARKINSONS DISEASES			01 A STRUCTURE BASED QSAR AND DOCKING STUDIES OF DONEPZIL DERIVATIVES AS SELECTIVE AChE INHIBITORS	01 ANTIBACTERIAL STUDIES OF ECO-FRIENDLY PHYTO SYNTHESIZED PVA CAPPED AgNPs USING PASSIFLORA EDULIS



Welcome to IJPBS!

Rapid and Easy Publishing

The "International Journal of Pharma and Bio Sciences" (IJPBS) is an international online journal in English published quarterly. The aim of IJPBS is to publish peer reviewed research and review articles rapidly without delay in the developing field of pharmaceutical and biological sciences.

International Journal of Pharma and Bio Sciences (IJPBS) achieves the journal ranking (SCImago Journal Ranking - SJR) of **0.208** (powered by scopus of Elsevier) "inviting special issues/ conference/seminars/symposia proceedings"

*Impact Factor = 5.121

SNIP=0.77, IPI=0.479, SJR=0.208
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Int J Pharm Bio Sci 2013 Oct; 4(4): (P) 558 - 577

Research Article

Bioinformatics



International Journal of Pharma and Bio Sciences

ISSN
0975-6299

CORRELATION OF 5, 6, 7, 8-TETRAHYDROACRIDINE BASED SCAFFOLD INHIBITORY AGENTS FOR ALZHEIMER DISEASE.

VENKATESWARLU BOLISETTY* AND MANAIAH.V¹

¹Department of Chemistry, K.N.M G.D.C, Miryalaguda, A.P, INDIA -508207.

²Department of Chemistry, Osmania University, Hyderabad, INDIA - 500007.

ABSTRACT

Alzheimer's disease (AD) is a progressive neurodegenerative disorder and one of the most common causes of dementia in the elderly. Acetylcholine sterase (AChE) inhibitors are the main drugs used in the treatment of AD. In this work, docking studies have been performed in order to understand the interaction between 5, 6, 7, 8-tetrahydroacridine inhibitor and AChE. The increase observed in the calculated binding affinities between inhibitor and AChE, reflect the experimental inhibitory activity expressed in terms of the half maximal inhibitory concentration ($IC_{50} = 0.002$ to $13.0 \mu\text{m}$) of the above inhibitor. The AM1 and PM3 semi-empirical methods are used to estimate the predictive power of final QSAR equations. QSAR and molecular docking studies indicated that, 2-chloro, 9-amino derivative of 5, 6, 7, 8-tetrahydroacridine showed the highest percentage of concentration and can become a potential lead for treating Alzheimer's disease.

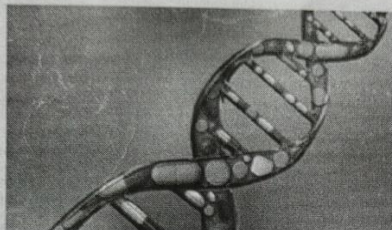
KEYWORDS: Inhibitor, 5, 6, 7, 8-tetrahydroacridine derivatives, QSAR, Semi-empirical methods, Regression analysis, DOCKING, AChE.



VENKATESWARLU BOLISETTY

Department of Chemistry, K.N.M G.D.C, Miryalaguda, A.P, INDIA -508207.

*Corresponding author



Welcome to IJPBS!

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The "International Journal of Pharma and Bio Sciences" (IJPBS) is an international online journal in English published quarterly. The aim of IJPBS is to publish peer reviewed research and review articles rapidly without delay in the developing field of pharmaceutical and biological sciences.

International journal of pharma and bio sciences (IJPBS) achieves the journal ranking (SCImago Journal Ranking - SJR) of **0.288** (powered by scopus of Elsevier)

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Int J Pharm Bio Sci 2014 Jan; 5(1): (P) 465 - 480

Research Article

Bioinformatics



International Journal of Pharma and Bio Sciences

ISSN
0975-6299

QSAR AND DOCKING STUDIES OF APHOPHINE DERIVATIVES AS EFFICACIOUS PARTIAL ANTAGONISTS FOR PARKINSON'S DISEASE

VENKATESWARLU BOLISETTY^{1*}, NAGESWAR RAO.K AND MANAIAH.V

¹Department of Chemistry, K.N.M.G.D.C, Miryalaguda-508 207, INDIA.

Department of Chemistry, Osmania University, Hyderabad-500007, INDIA.

ABSTRACT

Parkinson's disease is caused due to enhanced dopaminergic activity in the substantia nigra, a region of the midbrain. Dopamine Receptors are the main drugs used in the treatment of Parkinson's disease. In this work, docking studies have been performed in order to understand the interaction between Aphorphine inhibitor and Dopamine Receptors (D2). An increase in the calculated binding affinities between inhibitor and D2, reflects the experimental inhibitory activity, expressed in terms of the half maximal inhibitory concentration (IC₅₀), which is found to be in the range 0.0004 to 11.5 µm, for the inhibitors employed. The AM1 and PM3 semi-empirical methods have been used to estimate the predictive power of final QSAR equations. QSAR coupled with molecular docking studies indicated that, [6aR]-6, 10 dimethyl-5, 6, 6a, 7-tetrahydro-4H dibenzo [de, g] quin derivative of Aphorphine showed the highest percentage of concentration and can become a potential lead for treating Parkinson's disease.

KEYWORDS: Inhibitor, Aphorphine derivatives, QSAR, Semi-empirical methods, Regression analysis, DOCKING, DOPAMINE Receptors (D2).



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*Corresponding author

UGC Sponsored Two Day National Seminar on
GREEN CHEMISTRY FOR SUSTAINABLE DEVELOPMENT (GCSJ-2017)

April 06 - 07, 2017 at Government Degree College,
 Jammikunta, Karimnagar, Telangana State, India

**A Structure-Based Qsar And Docking Studies On Donepezil Derivatives As
 Selective Ache Inhibitors**

Dr. B. Venkateswarlu

Department of Chemistry, K.N.M G.D.C, Miryalaguda, T.G. INDIA -508207.
 Email - venkateswarlu.bolisetty@gmail.com

1. INTRODUCTION:

Donepezil Derivatives marketed under the trade name Aricept and now sold as a generic by multiple suppliers, is a centrally acting reversible acetylcholinesterase inhibitor. Its main therapeutic use is in the palliative treatment of Alzheimer's disease. Donepezil Derivatives should be used with caution in people with cardiac disease. The precise mechanism of action of Donepezil Derivatives as selective Antagonist in patients with Alzheimer's disease [42]. Certainly Alzheimer's disease involves a substantial loss of the elements of the cholinergic system and it is generally accepted that the symptoms of Alzheimer's disease are related to this cholinergic deficit, particularly in the cerebral cortex and other areas of the brain. Donepezil and their derivatives binds and inactivates reversibly the cholinesterases, thus inhibiting hydrolysis of acetylcholine. This results in an increased acetylcholine concentrations at cholinergic synapses. Acetylcholine esterase (AChE) inhibitors are the main drugs used in the treatment of AD [3-6]. In this work, docking studies have been performed in order to understand the interaction between inhibitor and AChE. The increase observed in the calculated binding affinities between inhibitor and AChE, reflects the experimental inhibitory activity expressed in terms of the half maximal inhibitory concentration ($IC_{50} = 0.0092$ to $36.8 \mu\text{m}$) of the above inhibitor. The AM1 and PM3 semi-empirical methods are used to estimate the predictive power of final QSAR equations. QSAR and molecular docking studies indicated that, (1-benzylpiperidyl)5,6-dimethoxy,2,3-dihydro indene-1-one derivative of Donepezil showed the highest percentage of concentration and can become a potential lead for treating Alzheimer's disease. The loss of memory is directly correlated with the abridged cholinergic neurotransmission, caused by the pronounced diminish in the levels of the neuro transmitter [7-9]. AChE abnormal activity of human acetyl-cholinesterase (hAChE), the enzyme responsible for hydrolysis of AChE, was attributed to the reduced level of AChE. Treating AD was achieved through inhibiting the anomalous action of AChE by various specific Ache inhibitors such as

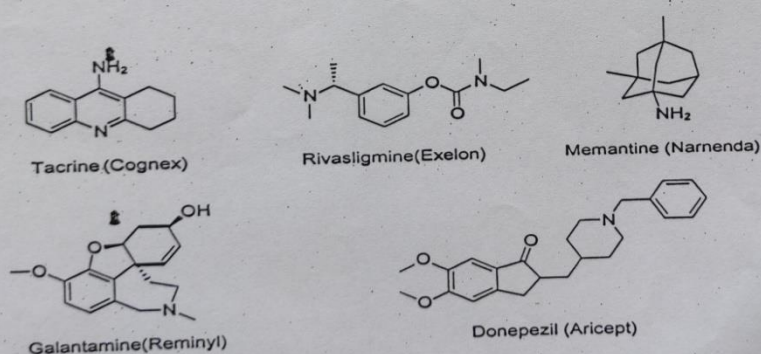


Fig1: Marketed drugs for the treatment of Alzheimer's disease.

Donepezil Derivatives is reversible acetylcholinesterase inhibitors that readily crosses the blood-brain barrier to reduce the breakdown of acetylcholine is too basic heterocyclic compound. It is a raw material used for the production of dyes and some valuable drugs. Many Donepezil Derivatives also have antiseptic properties. Donepezil Derivatives and related derivatives bind to DNA and RNA through intercalation mode [10-12].

2. MATERIALS AND METHODS

Bioassay: In the present investigation bioassay of 15 derivatives of Donepezil found in the literature [39] whose IC_{50} values are known. The criteria for selection of molecules are

ANTIBACTERIAL STUDIES OF ECO-FRIENDLY PHYTO SYNTHESIZED PVA CAPPED AgNPs USING PASSIFLORA EDULIS

Sandupatla Raju¹, Bolisetty Venkateswarlu², Dongamanti Ashok^{3*}

¹Research scholar, ²Degree lecturer, ³Assistant professor,
Green and Medicinal Chemistry Laboratory, Department of Chemistry, Osmania University,
Hyderabad-500007, Telangana, India.

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³ashokdou@gmail.com,

Abstract: The cutting-edge investigation reports about the evaluation of antibacterial studies of AgNPs (AgNPs) using an aqueous leaf extract of *Passiflora edulis* as reducing agent and polyvinyl alcohol (PVA) as a capping agent. This is simple, one pot, and rapid, eco-friendly, non-toxic and cost-effective method for the synthesis of AgNPs. Synthesis of AgNPs using plant extract has more advanced biological applications as they are the sources of the active compounds which were used in many medical remedies. So this active compound of phytochemicals from the *Passiflora edulis* plant extracts acts as a reducing agent for the synthesis of AgNPs. The synthesized PVA capped AgNPs were characterized by using diversify instrumental techniques such as UV-Vis spectroscopy reveals the formations of AgNPs as they depicting maximum absorption peak at 436 nm due to surface plasmon resonance. The Fourier transform infrared spectroscopic studies were conducted to know the phytochemicals responsible for the synthesis of AgNPs from the studies of the vibration bands of functional groups. The crystalline nature of the synthesized AgNPs had been studied by X-ray diffraction studies and the average particle size was found to be 24 nm calculated using Debye-Scherrer formula. The morphology of the AgNPs was studied by Scanning electron microscopy and the elemental signal profile carried out automatically with Energy dispersive spectroscopy, which coupled with SEM as it shows spherically shaped particles and the energy dispersive spectroscopy data showing a good atomic and weight content of stable silver. The characterized AgNPs afterward used for the antibacterial studies of the four harmful bacteria *Escherichia coli*, *Bacillus subtilis*, *Pseudomonas putida*, and *Staphylococcus aureus*, which exhibited high activity. The conducted studies constitute the premise for further investigations of the potential use of AgNPs as a chemotherapeutic.

Keywords: PVA capped AgNPs, *Passiflora edulis*, Scanning electron microscopy, X-ray diffraction, Antibacterial studies

1. INTRODUCTION:

Currently, the nanoscience and nanotechnology become a broader area because of its increase of usage in the many fields. Nanoparticles possess advanced applications based on their particle size, distribution, capping agents, shape, and other morphological features. They are show difference in properties and applications while compared to their bulk state because they have a large volume to surface ratio as particle size decreases the volume to surface ratio was increased due to this fact, nanotechnology becomes the most emerging area in the

3.3.4 NUMBER OF BOOKS AND CHAPTERS

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
		01(06)	01(01)	01

**"INHIBITORY AGENTS FOR ALZHEIMER AND PARKINSON'S
DISEASES AND THEIR MOLECULAR MODELLING STUDIES**

A THESIS

SUBMITTED FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

In CHEMISTRY



TO

OSMANIA UNIVERSITY

BY

B. VENKATESWARLU

2016

DEPARTMENT OF CHEMISTRY

OSMANIA UNIVERSITY

HYDERABAD-TELANGANA-INDIA-500007



SOUVENIR

UGC Sponsored

Two Day National Seminar

on



**GREEN CHEMISTRY FOR
SUSTAINABLE DEVELOPMENT**

(GCSD -2017)

6th & 7th APRIL, 2017



Organized by

Department of Chemistry

Government Degree College, Jammikunta

Re-accredited by NAAC with 'B' Grade (Cycle 2)

Dist. Karimnagar, Telangana State

3.4.1 EXTENSION ACTIVITIES

A. Sensitizing students to social issues

1. PARALEGAL VOLUNTEERS (PLV)

PLV are tasked with educating the people and encouraging them to exercise their legal rights. PLV are also entrusted to generate awareness regarding the benefits of solving disputes and graveness in pre-litigation stage through LOK-Adulates, cancellation, mediation and arbitration.

From KNMGDC following students are selected under the supervision of Dr.B.Venkateswarlu Assistant Professor of Chemistry and also engage for legal services with the objective of providing legal aid and impart legal awareness regarding rights and duties to the citizen and attended some times district civil court at Miryalaguda.

S.NO	NAME OF PLV	DESIGNATION
1	M.VENUGOPAL	II BZC
2	N.MOUNIKA	II BZC
3	SK.AFROZ	II BZC
4	N.ANUSHA	II BZC
5	M.JAGAN	I YEAR
6	T.NAGALAXMI	I YEAR
7	B.SAI KUMAR	I YEAR
8	B.SAIRAM CHARY	I BZC
9	A.NAVEEN KUMAR	I BZC
10	S.RAVINDHAR	I BZC
11	M.RAMADEVI	II BZC
12	MD.NAZRUA	II BZC
13	K.ANIL	II BZC
14	MD.SHIREEN	II BZC
15	M.KUMAR	II BZC
16	SK.ASMA	II BZC
17	S.MAHESH	II BZC

OUR COLLEGE PLV Attended on 31.07.2019 of District Legal Services Authority, Nalgonda.

Sub:- MLSC-Increase of the strength of Para Legal Volunteers
(PLVs) in our unit - Information - Regarding.

Ref:- Dis.No.700/LSA/2019, Dated: 31-07-2019 of District Legal
Services Authority, Nalgonda.

**PARA LEGAL VOLUNTEER LIST OF MANDAL LEGAL SERVICES
COMMITTEE, MIRYALAGUDA.**

Sl.No	Name	Designation	Appointed As
1	M.Vijaya	Anganvadi Teacher	PLV
2	K.Madhavi Latha	Anganvadi Teacher	PLV
	Shaik Saheda	Anganvadi Teacher	PLV
	G.Kavitha	Anganvadi Teacher	PLV
	M.Prameela	Anganvadi Teacher	PLV
	K.Mallehwari	Anganvadi Teacher	PLV
	B.Parvathamma	Anganvadi Teacher	PLV
	P.Padmavathy	Social Worker	PLV
	M.Venugopal	Student (Degree)	PLV
	N.Mounika	Student (Degree)	PLV
	Sk. Afroz	Student (Degree)	PLV
	N.Anusha	Student (Degree)	PLV
	M.Jagan	Student (Degree)	PLV
	T.Nagalaxmi	Student (Degree)	PLV



2.VERMI COMPOST PREPARATION

Compost is an organic fertilizer that can be made on the farm at very low cost .Compost is decomposed organic matter such as crop residues or animal manure most of these ingredients can be easily found around the farm.

Vermi composting is the process of terming organic debris in to worm castings .the worm castings are very important to the fertility of the soil. The castings contain high amounts of Nitrogen, Potassium, Calcium than found in good topsoil and also with phosphorus and magnesium.

Several researchers have demonstrated that earth worm castings have excellent aeration, porosity, structure drainage and moisture -holding capacity. The content of the earth worm castings along with the natural village by the worm's barrowing action enhances the pereumability of water in the soil.

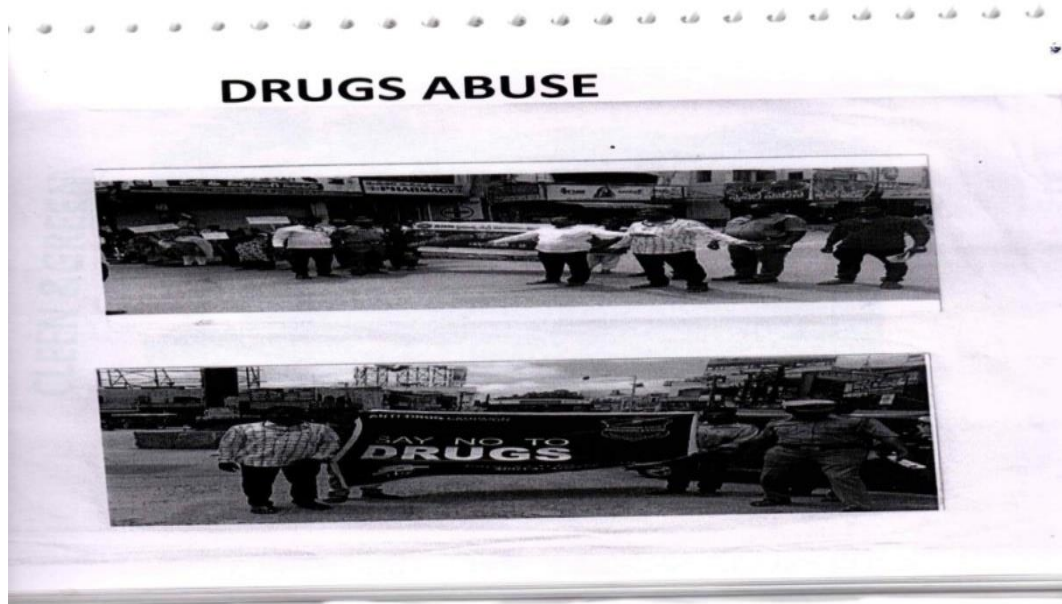


In KNMGDC Vermi compost project taking as student research project for biology background students under the super vision of Dr.B.Venkateswarlu Assistant Professor of Chemistry with the support of the following students along with college menial staff,

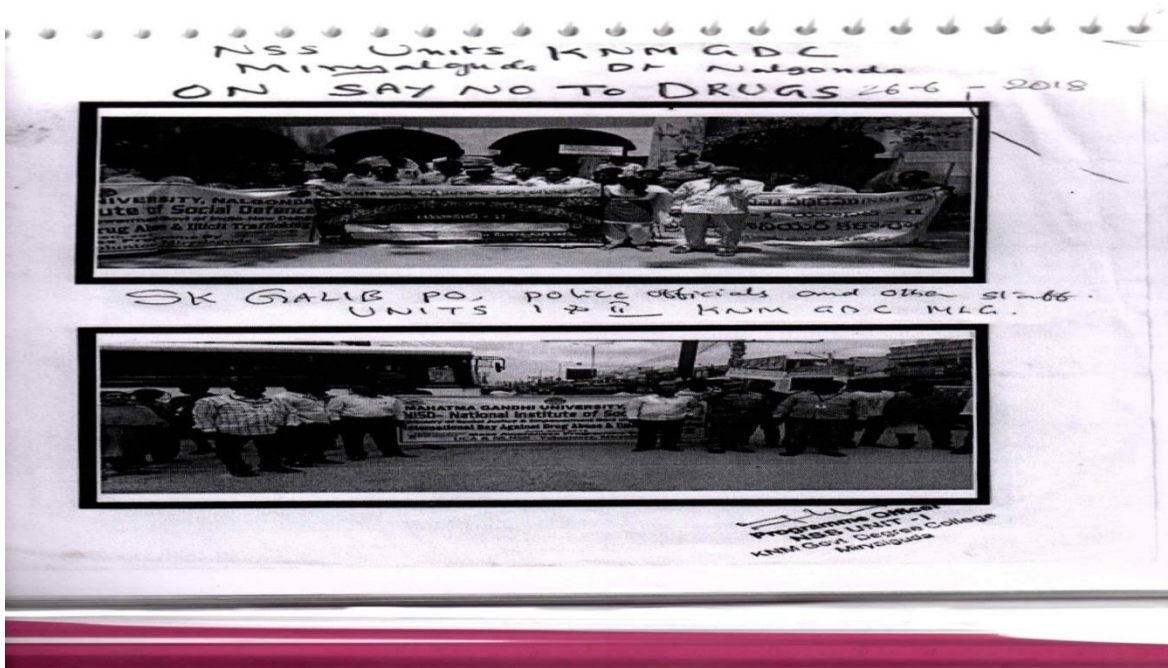
1. M VENUGOPAL (18044018445015)
2. D VENKATESH (18044018445017)
3. B YAMINI (18044018445002)
4. SK ASMA (18044018445029)
5. K CHANTI NAYAK (18044018445010)
6. N.DIVYA (18044018445021)
- 7.N.SINDURI (18044018445024)
8. MD. NAZMA (18044018445020)
9. CH SAIDULU (OFFICE SUBORDINATE)
10. E SRILATHA (WATER MAN)

3. RALLIES (NCC)

DRUGS ABUSE



DRUNK & DRIVE (PROHIBITION OF DRUGS)



WEAR HELMETS

నమస్తే తెలంగాణ

ద్వీచక్రవాహనదారులకు హెల్మెట్లపై అవగాహన

మిర్యాలగూడ ఆర్డర్స్ ద్వీచక్రవాహనదారులు హెల్మెట్ల ధరించి ప్రయాణించాలని పట్టణంలోని ఈజులగూడ షార్ప్స్ వద్ద గురువారం కేఎస్ఎం ప్రభుత్వ డిగ్రీ కళాశాలకు వెందిన ఎన్ఎస్ఐవ్ వలంటీర్లు అవగాహన కల్పించారు. ఈ సందర్భంగా కళాశాల వైస్ చీఫ్, ప్రొఫెసర్ బి.వెంకటేశ్వర్లు మాట్లాడుతూ ప్రతి రోజూ రోడ్డు ప్రమాదాల్లో ఎందరో ప్రయాణికులు తలకు గాయాల ప్రాణాలు కోల్పోతున్నారన్నారు. ప్రతి ఒక్కరూ తప్పకుండా హెల్మెట్ల ధరించాలని సూచించారు. కార్యక్రమంలో ఎన్ఎస్ఐవ్ ప్రోగ్రాం యూనిట్ అధికారులు కోటయ్య, నరేందర్ రెడ్డి, కార్తీక్, అధ్యాపక బృందం, ఎన్ఎస్ఐవ్ వలంటీర్లు తదితరులు పాల్గొన్నారు.



అవగాహన కల్పిస్తున్న ఎన్ఎస్ఐవ్ వలంటీర్లు

ఆంధ్రవైభవ

Estd. 1938

Journalism first!

ద్వీచక్రవాహనదారులు హెల్మెట్లు ధరించాలి



మిర్యాలగూడ, ఫిబ్రవరి 14 (ప్రభుత్వార్డర్స్): ద్వీచక్రవాహనదారులు తప్పనిసరిగా హెల్మెట్లు ధరించి ప్రమాదాల బారిన పడకుండా జాగ్రత్త పడాలని కేఎస్ఎం ప్రభుత్వ కళాశాల ఎన్ఎస్ఐవ్ కేర్ టీకర్ కార్తీక్ ప్రోగ్రాం అధికారులు ఎన్ఎస్ఐవ్ కోటయ్య.

ద్వీచక్రవాహనదారులకు గులాబీలు అందజేస్తున్న ఎన్ఎస్ఐవ్ కేర్ టీకర్, ప్రోగ్రాం అధికారులు నరేందర్ రెడ్డిలు కోరారు. రోడ్డు భద్రతపై గురువారం స్థానికంగా కేఎస్ఎం డిగ్రీ కళాశాల విద్యార్థులు ర్యాలీ నిర్వహించారు. ఈ సందర్భంగా ఈజులగూడ పార్కులో హెల్మెట్లు ధరించుకుంటూ వెళ్లే ద్వీచక్రవాహనదారులకు గులాబీ నూలు అందించి తప్పనిసరిగా హెల్మెట్లు ధరించే ప్రయాణించాలని విన్నవించారు. కార్యక్రమంలో కళాశాల వైస్ చీఫ్ ప్రొఫెసర్ బి.వెంకటేశ్వర్లు, అధ్యాపక బృందం ప్రొఫెసర్, ఆర్ శ్రీను, టి శ్రీనివాసులు, రామలింగయ్య, ప్రమీత తదితరులున్నారు.

వార్త

ఎన్ఎస్ఐవ్ విద్యార్థులచే ద్వీచక్రవాహనదారులకు అవగాహన

మిర్యాలగూడ టౌన్, ఫిబ్రవరి 14 ప్రభుత్వార్డర్స్

మిర్యాలగూడ పట్టణంలోని కేఎస్ఎం ప్రభుత్వ డిగ్రీ కళాశాల ఎన్ఎస్ఐవ్ కేర్ టీకర్ కార్తీక్ ఆధ్వర్యంలో ఎన్ఎస్ఐవ్ క్యాంపెయిన్ ఈజులగూడ పార్కులో హెల్మెట్ల ధరించుకుంటూ వెళ్లే ద్వీచక్రవాహన దారులకు హెల్మెట్లు ధరించాలనే అంశంపై అవగాహన కల్పించాలన్నారు. హెల్మెట్లు ధరించుకుంటూ ప్రయాణిస్తే తిరిగి ఆనందాలను, హెల్మెట్ల ధరించి ప్రయాణిస్తే కలిగే లాభాలకు, వాహనదారులకు వివరించారు. కళాశాల వైస్ చీఫ్ ప్రొఫెసర్ వెంకటేశ్వర్లు ర్యాలీని ప్రారంభించా ఈ కార్యక్రమంలో ఎన్ఎస్ఐవ్ ప్రోగ్రాం యూనిట్ అధికారులు ఎన్.కోటయ్య, నరేంద ర్ రెడ్డి, క్యాంపెయిన్, అధ్యాపకబృందం తదితరులు పాల్గొన్నారు.



ద్వీచక్రవాహనదారులకు అవగాహన కల్పిస్తున్న ఎన్ఎస్ఐవ్ విద్యార్థులు

4. RALLIES (NSS)

SWACCHA BHARATH



CLEAN & GREEN



Ally
Programme Officer
N.S.S. Unit-II, A.P. 05270
K.N.M. Govt. Degree College,
MIRYALGUDA.

[Signature]
Principal & Chairman
NSS Unit-II AP 05 12384
KNM Govt. Degree College,
Miryalguda, Dt. Nalgonda.

SAVITHRIBAI PULE JAYANTHI FOR WOMENS TEACHERS DAY

SAVITRIBAI PHULE JAYANTI

సెప్టెంబరు 4 జయంతి 2020

ఆంధ్రజ్యోతి
2020

మన మిర్యాలగూడ
సావిత్రిబాయి పులె జయంతి సందర్భంగా మన మిర్యాలగూడ పత్రికలో ప్రత్యేక ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము. ఆంధ్రజ్యోతి పత్రికలో ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము.

మిర్యాలగూడ

మన మిర్యాలగూడ

సావిత్రిబాయి పులె జయంతి సందర్భంగా మన మిర్యాలగూడ పత్రికలో ప్రత్యేక ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము. ఆంధ్రజ్యోతి పత్రికలో ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము.

సావిత్రిబాయి పులె జయంతి సందర్భంగా మన మిర్యాలగూడ పత్రికలో ప్రత్యేక ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము. ఆంధ్రజ్యోతి పత్రికలో ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము.

సాక్షి

మన మిర్యాలగూడ

సావిత్రిబాయికి ఘన నివాళి

సావిత్రిబాయి పులె జయంతి సందర్భంగా మన మిర్యాలగూడ పత్రికలో ప్రత్యేక ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము. ఆంధ్రజ్యోతి పత్రికలో ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము.

నల్లగొండ వార్త

నల్లగొండ | మిర్యాలగూడ | దేవరకొండ | నకిలేటి | వరసాల | అల్లూరి | చందూరు

సావిత్రిబాయి పులె జయంతి సందర్భంగా మన మిర్యాలగూడ పత్రికలో ప్రత్యేక ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము. ఆంధ్రజ్యోతి పత్రికలో ప్రకటనలు ప్రచురించినందుకు మన మిర్యాలగూడకు ధన్యవాదాలు తెలియజేస్తున్నాము.

KILL CANCER AWARENES

ELOCUTION COMPETITION

"KILL CANCER"



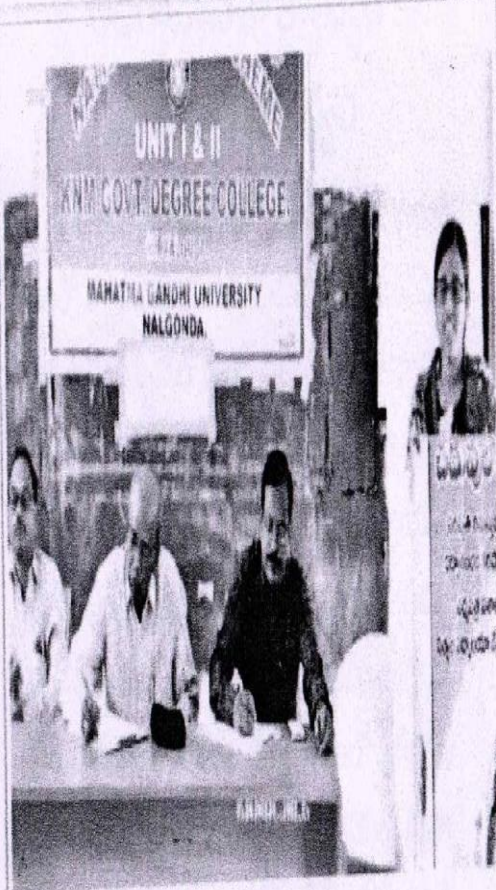
ఆంధ్రప్రదేశ్

15/20



ఆంధ్రప్రదేశ్

8/19



క్యాన్సర్ పై అవగాహన కల్పిస్తున్న ఉపాధ్యాయులు

● కేఎన్ఎం కళాశాలలో క్యాన్సర్ పై..

పట్టణంలోని కేఎన్ఎం ప్రభుత్వ డిగ్రీ కళాశాలలో క్యాన్సర్ నిర్మూలన దినోత్సవాన్ని నిర్వహించారు. ఈ సందర్భంగా వైస్ ప్రెసిడెంట్ డాక్టర్ పి. వెంకటేశ్వర్లు మాట్లాడుతూ క్యాన్సర్ మహమ్మారి ప్రపంచ దేశాల స్పందినీ ఆందోళనకు గురిచేస్తుందన్నారు. అనంతరం పదవి విరమణ పొందిన కళాశాల ప్రెసిడెంట్ మంచు కొండ రమేష్ ను ఘనంగా సన్మానించారు. కార్యక్రమంలో ఎక్స్ ప్రెసిడెంట్ డాక్టర్ పందిరి రవీందర్, ఎన్ఎస్ ఎస్ ప్రోగ్రామ్ అధికారులు ఎన్. కోటయ్య, పి. శ్రీనివాస్, ప్రొఫెసర్ ప్రభాకర్ రావు, వెంకటరమణ, కార్తిక్, వనజారాణి, లైబ్రేరియన్ రాచమళ్ల శ్రీను, కృష్ణయ్య, మదుసూదన్ రెడ్డి తదితరులు పాల్గొన్నారు.

NATIONAL YOUTH DAY

KNM GOVT DEGREE COLLEGE MIRYALUDA
NSS Unit - II 05 12 384

6

శంకరాడు 7-1-2015 YOUTH FESTIVAL MCA UNIVERSITY



అభినయం..అదరహా..!

ఎంపీయూలో ఎన్ఎస్సీ జిల్లాస్థాయి యువజనోత్సవాలు

ముఖ్యమంత్రి సావధనం

గీతకార్యక్రమం

మిత్రత్వ మార్గం

మహాత్మాగాంధీ పశ్చిమబెంగాలుం ఎన్ఎస్సీ జిల్లాస్థాయి యువజనోత్సవాలనుండి నిందుగా కట్టుబడి పాల్గొంటూ, యువజన యుజనల దళనాథులలో అదర గొప్పయి...ఎంపీయూలో నిరవసరాలు జరిగి, సాధించు... మహాత్మాగాంధీ పశ్చిమబెంగాలుం.

విలేజలు
తామిళం నాటకం(ప్రదర్శనం), పర్మనెంట్ బిల్డింగు, రింగుబిల్డింగు, పుస్తకాంధారం(ప్రదర్శనం) బహుమతి కిక్ అండ్ డ్రీ కళాకారిణి(కావ్యం), పుస్తక బహుమతి ఎన్.డి.కళాకారిణి, పుస్తక బహుమతి అవినవ కళాకారిణి

ఇన్ ఫర్మేషన్ సామూహిక(ప్రదర్శనం), కల్యాణ(పుస్తకం), క్రాంతి(పుస్తకం) **సాంకేతిక** ప్రాజెక్టులు(ప్రదర్శనం), పచ్చ(పుస్తకం), పచ్చ(పుస్తకం) **సాంకేతిక** సాఫ్ట్ వేరువారింగ్ కేంద్రం(ప్రదర్శనం), రేడియో(పుస్తకం), ఎన్.కె.కే(పుస్తకం)

విద్యార్థి సామూహిక(ప్రదర్శనం), కల్యాణ(పుస్తకం), క్రాంతి(పుస్తకం) **సాంకేతిక** ప్రాజెక్టులు(ప్రదర్శనం), పచ్చ(పుస్తకం), పచ్చ(పుస్తకం) **సాంకేతిక** సాఫ్ట్ వేరువారింగ్ కేంద్రం(ప్రదర్శనం), రేడియో(పుస్తకం), ఎన్.కె.కే(పుస్తకం)

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www.eenadu.net

NATIONAL VOTERS DAY

ఈనాడు

గురువారం 24 డిసెంబర్ 2019

తప్పనిసరిగా ఓటు నమోదు చేయించాలి

మిర్యాలగూడ అసెంబ్లీ నియోజకవర్గం పరిధిలోని ఓటర్లకు తమ ఓటు నమోదు చేయించాలి. ప్రభుత్వం ద్వారా ఈ కార్యక్రమం ముందుకు తీసుకువచ్చింది. అందుకు అనుగుణంగా ఓటర్లకు ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి.



ఓటు నమోదు కార్యక్రమం అధికారుల సమక్షంలో జరుగుతోంది.

ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి.

ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి. ఓటు నమోదు చేయించాలి.

మిర్యాలగూడ

తెలుగు జాతీయ దినపత్రిక

వార్త

కెపీఎం కళాశాలల జాతీయ ఓటర్ల దినోత్సవం

మిర్యాలగూడ ఓట్లంబోస్ కెపీఎం ప్రభుత్వ కళాశాలలో జరిగిన జాతీయ ఓటర్ల దినోత్సవం. యూనిట్-1, యూనిట్-2ల అధ్యక్షులు జాతీయ అభ్యుదయ పార్టీ నేతాచేతనావేదికలోని 123వ జయంతి కళాశాల ప్రస్తుత చివరి మంబు జింద బయే అభ్యుదయ పేరంగా నిర్వహించారు. ప్రజాస్వామ్యంలో ఓటర్ల పాత్ర ఎక్కువగా ఉన్నందున అది అంతు నిర్వహించే మార్పులకు దృఢీకరించిన పుస్తకం పాఠకుల నిర్వహించే కార్యక్రమం జరిగింది. అందుకు అనుగుణంగా జరిగిన కార్యక్రమంలో ఎన్ఎస్ఐ ప్రోగ్రాం అధికారులు ఎన్.కే.బయ్య, జి.నరేంద్రారెడ్డి, డోపం తోడారెడ్డి నిర్వహించారు. మిర్యాలగూడ ఓటర్ల దినోత్సవం జరిగింది.

NATIONAL GIRL CHILD DAY

**NATIONAL GIRL CHILD DAY
24-01-2020**

సాక్షి
మిర్యాలగూడ



మిర్యాలగూడలో జరిగిన కార్యక్రమాలకు ప్రతినిధులు
వేలమంది అధికారులు పాల్గొని కార్యక్రమాలను నిర్వహించారు. కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు. కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు.

**ఆంధ్రప్రదేశ్
మిర్యాలగూడ**

కెంప్స్ లో జాతీయ బాలికల దినోత్సవం

మిర్యాలగూడలో జరిగిన కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు. కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు. కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు.



కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు.

మిర్యాలగూడ

ntnews.com nralgonda.com

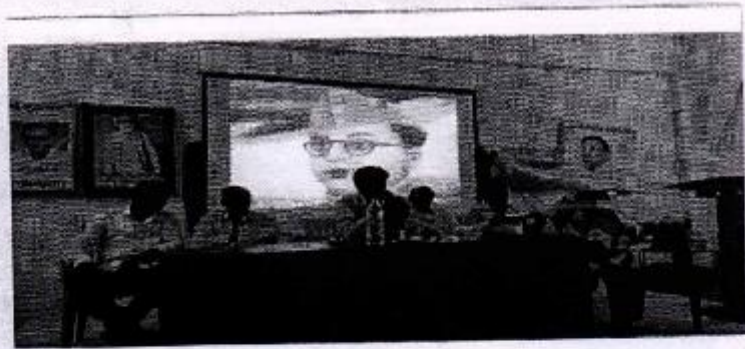
ఈ కార్యక్రమంలో అధికారులు పాల్గొని కార్యక్రమాలను నిర్వహించారు. కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు. కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు.

కార్యక్రమాలకు ప్రతినిధులు పాల్గొని కార్యక్రమాలను నిర్వహించారు.

SUBHASHCHANDRABOSE JAYANTHI

CHANDRA BOSE JAYANTI

SUBASH CHANDRA BOSE JAYANTHI
23-1-189



5) STUDENT CREATIVITY (SSI) SMALL SCALE INDUSTRY

Especially in developing countries like India the SSI are the life line of the economy these industries are generally Labour-Intensive, and hence they play an important role in creation of employment. SSI'S are a crucial sector of the economy both from a financial and social point of view as they help with the precipitate income and resource utilization in the economy.

Example and ideas of SSI'S

- Bakeries
- School/College stationeries
- Water Bottles
- Leather belt
- Small Toys
- Paper bags
- Photography
- Beauty parlors

CHARERISTICS OF SSI

- Ownership
- Management
- Labor intensive
- Flexibility
- Limited Reach
- Resources Utilization

SSI (PREPARATION OF NOTEPADS)



In KNMGDC following students are participated SSI'S project with preparation of note pads for incoming fresher's induction programs 2017,2018,2019 also under the

supervision of Dr.B.Venkateswarlu Assistant Professor Of Chemistry with the ideas of SSI'S examples school/college stationeries category .

The following students along with college menial staff,

- 1 M VENUGOPAL II BZC (18044018445015)
- 2 D VENKATESH(18044018445017)
- 3 B YAMINI(18044018445002)
- 4 SK ASMA(18044018445029)
- 4 K CHANTI NAYAK(18044018445010)
- 5 SINDURI (18044018445024)
- 6 MD NAZMA(18044018445020)
- 7 M KUMAR(18044018445016)
- 8 MD MUKTHA UNNISA BEGUM(18044018445505)
- 9 A SARASWATHI I BZC (19044018445003)
- 10 K SAI RAMA CHARY(19044018445010)
- 11 V SATHISH(19044018445020)



6. WATER HARVESTING

The term water harvesting generally refers to the collection of rain storm-generated runoff from a particular area in order to provide water for human animal crop use. The process involves collection and storage of rain water with help of artificially designed systems the water thus collected can either be utilized immediately as for irrigation or subsequent (HARITHA HARAM, HERBARIUM COLLECTION PLANTS, VEGETABLE PLANTS) utilization.

In KNMGDC water harvesting project taking as student research project for biology background students under the supervision of Dr.B.Venkateswarlu Assistant Professor of Chemistry From 2017 onwards with the support of following students along with college menial staff,

1. M VENUGOPAL II BZC (18044018445015)
2. D VENKATESH (18044018445017)
3. B YAMINI (18044018445002)
4. SK ASMA(18044018445029)
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5. N.DIVYA (18044018445021)
6. MD NAZMA(18044018445020)
7. CH SAIDULU (OFFICE SUBORDINATE)
8. E SRILATHA (WATER MAN)



7. NATURAL AQUARIUM

Planted or natural aquariums contain specially selected aquatic plants and fish to closely replicate beautifully under water environments found in nature, because of the complimentary relationship b/w fish and plants, an established natural aquarium is usually easier to maintain than other aquarium setups fish provide CO_2 and nutrients for healthy plant growth in term, aquatic plants provide supplementary biological filtration and oxygen to create a clean,healthy.environment for fish.



In KNMGDC following students are participated on Natural Aquarium student research project under the supervision of Dr.B.Venkateswarlu Assistant Professor of Chemistry with the support of following students and menial staff,

1. M VENUGOPAL II BZC (18044018445015)
2. D VENKATESH (18044018445017)
3. B YAMINI(18044018445002)
4. SK ASMA(18044018445029)
5. K CHANTI NAYAK(18044018445010)
6. SINDURI (18044018445024)
7. MD NAZMA(18044018445020)
8. CH SAIDULU (OFFICE SUBORDINATE)
9. E SRILATHA (WATER MAN)

8. WEST-END-PARK



In KNMGDC following students are participated and developed WEST-END-PARK as student research project under the supervision of Dr.B.Venkateswarlu Assistant Professor of Chemistry with the support of following students and menial staff,

1. M VENUGOPAL II BZC (18044018445015)
2. D VENKATESH (18044018445017)
3. B YAMINI(18044018445002)
4. SK ASMA(18044018445029)
5. N.DIVYA (18044018445021)
- 6.K CHANTI NAYAK(18044018445010)
7. SINDURI (18044018445024)
- 8.. MD NAZMA(18044018445020)
- 9.. CH SAIDULU (OFFICE SUBORDINATE)
10. E SRILATHA (WATER MAN)

9. NATURAL DRUGS ON DEGENERATIVE DISEASES

In KNMGDC following students are participated on Natural Drugs on degenerative diseases student research with Jignasa project under the supervision of Dr.B.Venkateswarlu Assistant Professor of Chemistry with the support of following students and menial staff,

1. M VENUGOPAL II BZC (18044018445015)
2. D VENKATESH (18044018445017)
3. B YAMINI(18044018445002)
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ECO-SYSTEM-SERVICES STUDENT RESEARCH PROJECT

Eco-System Services are the many and varied benefits to humans provided by the natural environment and from healthy Eco-Systems such Eco-Systems include for examples

- Agro Eco-Systems (Maintained Water Harvesting in the Campus)
- Forest Eco-Systems (Maintained Haritha Haram In the Campus)
- Grass Land Eco-Systems (Maintained West-End-Park &Landscape Garden in the Campus)
- Aquatic Eco-System(Maintained Natural Aquarium in the campus)

While scientists and environmentalist have discussed Eco-System Services implicitly for decades the millennium Eco-System Assessment in the early 2000's popularized this concepts these eco-system services of grouped in to four broad categories:

1 Provisioning: Such as the production of food and water

2 Regulating: Such as the controller of climate and disease

3 Supporting: Such as nutrient cycles and oxygen

4 Production & Cultural: Such as spiritual and recreational benefits to help inform desertion makers

Many eco system services are being evaluated in order to draw equivalent comparisons to human engineered infra structure and services.



In **KNMGDC** Eco-System Services project taking as student research project for biology background students under the super vision of Dr.B.Venkateswarlu Assistant Professor of Chemistry From 2017 onwards with the support of following students along with college menial staff,

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B. HOLISTIC DEVELOPMENT ACTIVITIES

1. STUDENTS AWARE ON USAGE OF TOOTH STICS

Abstract

Azadirachta indica commonly known as *Neem*, is an evergreen tree. Since time immemorial it has been used by Indian people for treatment of various diseases due to its medicinal properties. It possesses anti-bacterial, anti-cariogenic, anti-helminthic, anti-diabetic, anti-oxidant, astringent, anti-viral, cytotoxic, and anti-inflammatory activity. Nimbidin, Azadirachtin and nimbinin are active compounds present in *Neem* which are responsible for antibacterial activity. *Neem* bark is used as an active ingredient in a number of toothpastes and toothpowders. *Neem* bark has anti-bacterial properties, it is quite useful in dentistry for curing gingival problems and maintaining oral health in a natural way. *Neem* twigs are used as oral deodorant, toothache reliever and for cleaning of teeth. The objective of this article is to focus on the various aspects of *Azadirachta indica* in dentistry in order to provide a tool for future research.

Keywords: *Azadirachta indica*, anti-bacterial, anti-cariogenic, oral health

Objective of the literature review

Azadirachta indica is an evergreen tree having potential medicinal values. It has been found to be active against many dreadful disorders like hepatitis, viral infections, malaria and cancer. It is also effective against periodontal pathogens, and oral acidogenic bacteria responsible for dental caries and dental plaque. The aim of the present review is to focus on the dental aspects of various parts of *Neem* extract with their chemical constituents and biological activities. Several traditional uses of the miraculous tree have also been briefly discussed. This information may give a bird's eye view for the dentist, and consequently this database might play a major role in future research in the field of dentistry



Therapeutic role of *Azadirachta indica* in dentistry

Nimbidin, a major active principle isolated from seed kernels of *A. indica* exhibits several biological actions. From nimbidin other active constituents like nimbin, nimbinin, nimbidinin, nimbolide and nimbidic acid have been isolated which are responsible for its biological activities.

Neem dental care products contains *Neem* leaf or bark extract. *Neem* leaf is rich in antioxidants and helps to boost the immune response in gum and tissues of the mouth. *Neem* offers a good remedy for curing mouth ulcers, tooth decay and acts as a pain reliever in toothache problems.

In **KNMGDC STUDENTS AWARE ON USAGE OF TOOTH STICS** project taking as student research project for biology background students under the super vision of Dr.B.Venkateswarlu Assistant Professor of Chemistry From 2017 onwards with the support of following students along with college menial staff,

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7. SINDURI (18044018445024)
8. MD NAZMA(18044018445020)

2. AWARENESS AND MOTIVATION PROGRAMME ON CAREER GUIDENCE WITH REDDY LABS SCEINTISTS

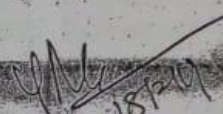


3.PARTICIPATION OF STUDENTS ON JOB MELAS ACTIVITIES WITH DISHA PROJECT

CERTIFICATE OF PARTICIPATION

DR. B. VENKATESWARLU..... has

attended One Day Training Program organized by Mahatma
Gandhi University, Nalgonda in association with UNDP-
DISHA for Enhancing Employability of Women Students on
18-02-2019 from 10:00 am to 04:00 pm in Seminar Hall,
Mahatma Gandhi University, Nalgonda.


Dr.Y. PRASHANTHI
DIRECTOR
PLACEMENT CELL
MGU, NLG

EST
19.02.2019

4.PARTICIPATION OF JIGNASA COLLEGE LEVEL STUDENT RESEARCH PROJECT

JIGNASA – 2019
STUDENT STUDY PROJECT

Inhibitory Agents for Alzheimer's Disease

It is a progressive neuro degenerative disorder and one of the most common causes of dementia in late life. The characteristic lesions of AD are the extra cellular amyloid plaques, composed aggregates of beta amyloid peptide and ubiquitin. Alzheimer's is the high leading cause of death in the world there is no specific cause of AD but researchers they and my believe that environmental factors and genetic factors may induce abnormal process in brain that leads to Alzheimer's. Manifestation of this disease is it damages the brain results in memory loss, complexity in remembering information and learning the symptoms are different according to the individuals and area of brain effected depending on the age and health conditions Alz.eimer's patients can survive 8 to 15 years after symptoms become noticeable.

Currently only analgesic solutions are available and side effects remain an important concern clearly the search for more effective and efficacious drugs for the treatment of AD is one of the most pressing pharmacological goals and clinical trials these will include antioxidants, metal chelators, important inhibitors like acetyl cholinesterase [AChE], and NMDA in addition medicinal chemistry toward designing better pharmaceuticals will be discussed the compressive conclusion in this investigation AChE and ^{5,6,7,8-}tetrahydroacridine inhibitor that has been used to counter the effects of muscle relaxants as a respiratory stimulant and in the treatment of Alzheimer's Disease and other central nervous system disorders.

Inhibitors found in the literature whose IC50 values are known (Bioassay) retrieved from protein data bank. AM1 and PM3 semi-empirical theory levels are engaged for full optimization of the selected compounds. Docking studies are the part of integrated approach to intended drug molecules having high efficacy. Derivatives of 5,6,7,8- tetra hydro acridine showed the maximal percentage of concentration and can turnout tobe a potential lead for treating Alzheimer's Disease.

Key Words : Inhibitors, AChE, AD, IC50, AM1 and PM3.

JIGNASA – 2019
STUDENT STUDY PROJECT

Inhibitory Agents for Parkinson's Disease

It is a self-motivated movement disorder characterized by resting tremor, brady kinesia and rigidity with cognitive and emotional symptoms. The characteristic lesions of PD, the Lewy body, is an eosinophilic cytoplasmic inclusion containing fibrillar deposits of the α -synuclein protein with ubiquitin. PD is a disorder of the nervous system that affects movement and mental ability. It develops gradually, starting with shaking in the thumb, chin or lip, movements during sleeping, feeling dizzy, low blood pressure.

Currently, only Parkinson's Disease can't be cured in some cases. Doctors may suggest medication, pharmacological treatment and surgery to re-certain regions of the brain. Anti-parkinson's disease medication is a good controller of Parkinson disease, and 4 to 5 years of physiotherapy is also a good treatment to improve muscle strength. Clearly, the search for more effective and efficacious drugs for the treatment of PD is one of the most pressing pharmacological goals. Clinical trials will include antioxidants, metal chelators, important inhibitors like acetyl cholinesterase [AChE], and NMDA. In addition, medicinal chemistry toward designing better pharmaceuticals will be discussed. The comprehensive conclusion in this investigation is AChE and dopamine inhibitor that has been used to counter the effects of muscle relaxants as a respiratory stimulant and in the treatment of Parkinson's Disease and other central nervous system disorders.

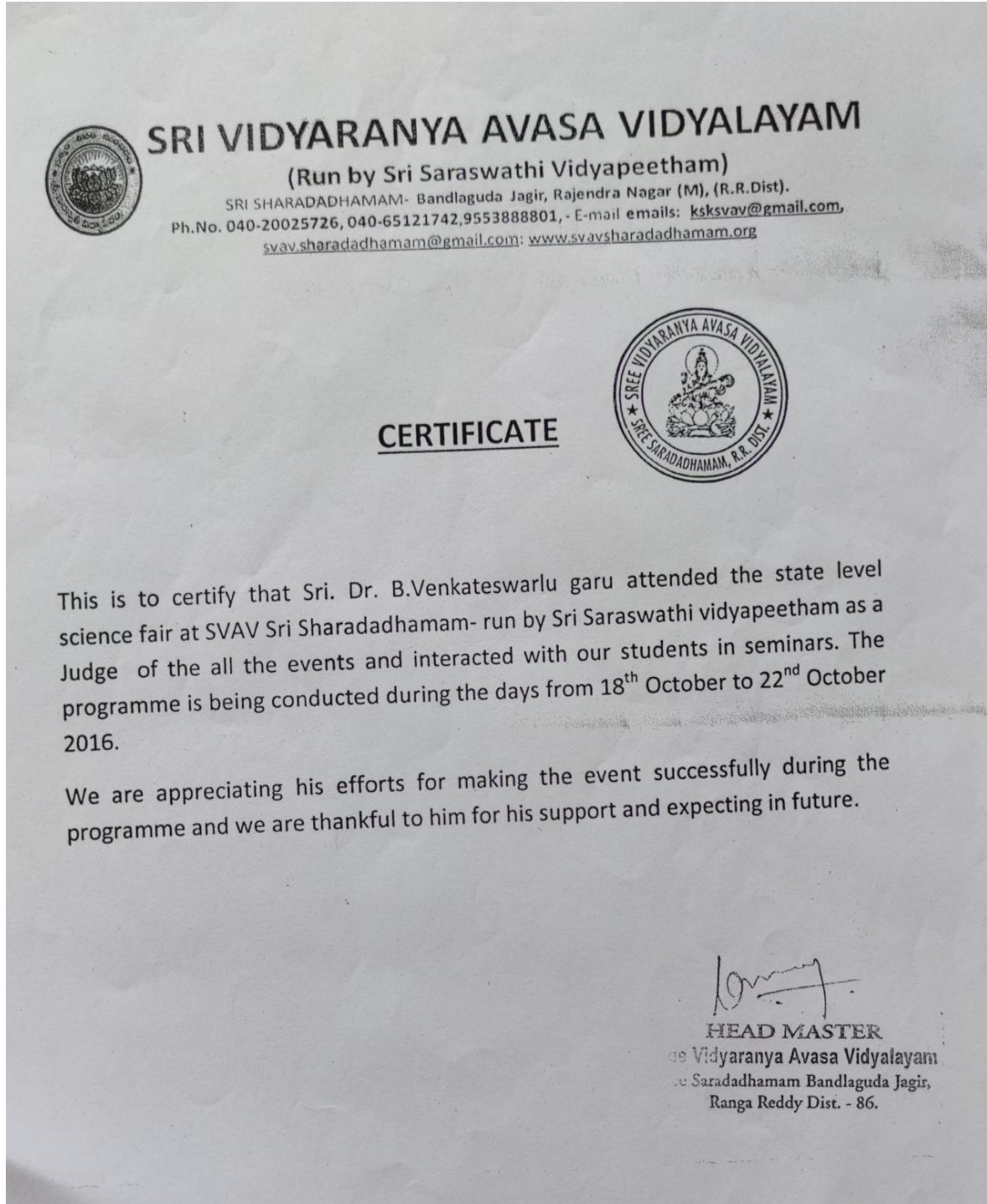
Inhibitors found in the literature whose IC₅₀ values are known (Bioassay) were retrieved from the Protein Data Bank. AM1 and PM3 semi-empirical theory levels are engaged for full optimization of the selected compounds. Docking studies are the part of an integrated approach to intended drug molecules having high efficacy. Derivatives of aporphine showed the maximal percentage of concentration and can turn out to be a potential lead for treating Parkinson's Disease.

Key Words : Inhibitors, AChE, PD, IC₅₀, AM1 and PM3.

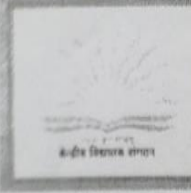
3.4.2.1 TOTAL NUMBER OF AWARD AND RECOGNITION RECEIVED FOR EXTENSION ACTIVITIES

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
		01		01

In 2016-2017 Act As a judge for inter states science faire at SVAV



In 2018-2019 Act As a subject Expert for selection at KENDRIYA VIDYALAYA

	Estd : 2014 केन्द्रीय विद्यालय मिर्यालगूडा KENDRIYA VIDYALAYA MIRYALAGUDA (Ministry of H.R.D., Govt. of India) OPP. NSP CAMP GROUND, MIRYALAGUDA TOWN, NALGONDA DISTRICT, TELANGANA STATE - 508207 फोन नंबर / PHONE No.(08609) 240123 Website: kendriyalaguda.org ईमेल / E-Mail : kvmiryalaguda@gmail.com
F.1-13/KVMLG/2018-19/	Date: 23.02.2019

ATTENDANCE CERTIFICATE

It is to certify that the following Educationists have attended Kendriya Vidyalaya Miryalaguda on 23.02.2019 as subject experts to prepare the panel of teachers purely on Part-time/Contractual basis through walk-in-interview conducted on 23.02.2019 (Saturday) for the academic session 2019-20.

1. Dr. B. VENKATESHWARLU, Asst Prof. of Chemistry, KNM Govt. Degree College
2. Smt. K. SHIVA RANI, Lecturer in Botany, KNM Govt. Degree College
3. Mr. P.VENKATESWARLU, Lecturer in Mathematics , KNM Govt. Degree College
4. Mr. E. MADHUSUDHAN, Lecturer in English, KNM Govt. Degree College

(Signature)
23-02-2019
(KAMAL PRASAD PATADE)
Principal
KV MIRYALAGUDA
Dist. Nalgonda, Telangana State
Pin / Pin - 508 207

3.4.3 EXTENSION AND OUTREACH PROGRAMMES WITH NCC/NSS/RED CROSS

2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
		01		01





BLOOD DONATION CAMP



BLOOD DONATION CAMP



ECO-SYSTEM-SERVICES STUDENT RESEARCH PROJECT

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In **KNMGDC** Eco-System Services project taking as student research project for biology background students under the super vision of Dr.B.Venkateswarlu Assistant Professor of Chemistry From 2017 onwards with the support of following students along with college menial staff,

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