



# **GOVERNMENT DEGREE COLLEGE NARSAMPET**

**WARANGAL DISTRICT (RURAL) 506132 TELANGANA STATE**

[wgl.jkc.nspt@gmail.com](mailto:wgl.jkc.nspt@gmail.com); Mob.9849551559



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website:<https://www.gdcts.cgg.gov.in/narsampet.edu>

## **DEPARTMENT PROFILE**

### **DEPARTMENT OF PHYSICS**

#### **BRIEF HISTORY OF THE COLLEGE & DEPARTMENT:**

- Government Degree College, Narsampet was established on 3rd December, 1984 in Warangal District of united Andhra Pradesh. Narsampet is a major town located 45 Kilometers away from District head quarters to cater the higher education needs of the students of Narsampet.
- The college is affiliated to Kakatiya University, Warangal and it was admitted by UGC under 2(f) & 12(B) in 1990.
- In accordance with the UGC guidelines is being followed and completed as per the almanac prescribed by the University.
- The Department of Physics in the College has started in the year of 1997 with BSc MPC & BSc MPCs in the year of 1998.

#### **ABOUT THE DEPARTMENT**

The Department maintains a tradition of excellence in teaching at undergraduate level. Faculty of the department participate in research in the active and exciting areas of physics. The Physics Department is committed to continuous improvement in the quality of education by enhancement of the knowledge of students and staff members. The Physics Department has highly qualified staff & is well equipped with laboratories. The department presents a unique opportunity to study the exciting field with the guidance of well-qualified teachers.

### **VISION AND MISSION**

#### **Vision:**

- Popularize the subject among the students

## Mission

**Lay strong foundation of the subject in the students leading to further higher studies and research**

- Simplification of the subject by the faculty in the form of simplified notes and easy to understand lectures.
- Inculcating interest in the subject among the students by involving them in research activities.

**1. Name of the Department : Physics**

**2. Year of Establishment : 1997**

**3. Names of Programmes / Courses offered  
(UG,PG,M.Phil.,Ph.D.,:UG,B.A(H.E.P)**

**: B.Sc(MPC), B.Sc(MPCS)**

**4. Names of Interdisciplinary courses and  
the departments/units involved**

**: Nil**

**5. Annual/ semester/choice based credit  
system (programme wise)**

**:Choice Based Credit System**

**6. Participation of the department in the  
courses offered by other departments**

**: Nil**

**7. Courses in collaboration with other**

**Universities, industries, foreign institutions : Nil**

**8. Details of courses/programmes**

**discontinued (if any) with reasons : Nil**

**9. Number of Teaching posts**

Designation	sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Asst. Professors	01	01

**10. Faculty profile with name, qualification,  
designation, specialization,  
(D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No.of Years of Experience	No. of Ph.D. Students guided for the last 4 years
P.Tyagaiah	M.Sc,B.Ed, SET.	Assistant Professor	Astrophysics	15 years	Nil

**11. List of senior visiting faculty :**

1. Dr.M.Verngal Reddy, Lecturer in Physics, Govt. Degree, Jammikunta.
2. Dr.K.Narender, Lecturer in Physics, Kakatiya Govt. Degree College,Hanamkonda.
3. Dr.M.Shankaranarayana, Lecturer in Physics, Pingle Govt. Degree College, Hanamakonda

**12. Percentage of lectures delivered and  
practical classes handled(programme wise)**

**by temporary faculty : Nil**

**13. Student -Teacher Ratio (programme wise) : 20 :1**

**14.Number of academic support staff (technical) : Nil**

**and administrative staff; sanctioned and filled**

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG:**

Name	Qualification
P.Tyagaiah	M.Sc,B.Ed, SET.

**16. Number of faculty with ongoing projects**

**from a) National b) International funding**

**agencies and grants received/ : Nil**

**funded by the UGC**

**17. Departmental projects funded by  
DST-FIST, UGC, DBT, ICSSR, etc.**

**and total grants received : Nil**

**18. Research Centre /facility recognized  
by the University**

**: Nil**

**19.Publications:**

P.Tyagaiah

- \* 1 Article published in **The International journal of analytical and experimental modal analysis, “ Nano Technology in Solar Cell Industry ”.**
- \* 2. A Paper published on “ A Study of Benefits and Challenges of E-Learning in Higher Education” in **IJRAR Volume 7 Issue 1. Dated:- 07-03-2020.**
  
- \* a) **Publication per faculty :**
- \* **Number of papers published**
- \* **in peer reviewed journals**
- \* **(national / international) by faculty and students**
- \* **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- \* **Monographs**
- \* **Chapter in Books**
- \* **Books Edited**
- \* **Books with ISBN/ISSN numbers with details of publishers**
- \* **Citation Index**
- \* **SNIP**
- \* **SJR**
- \* **Impact factor**
- \* **h-index**

**20. Areas of consultancy and income generated :Nil**

**21. Faculty as members in**

**a) National committees b) International  
Committees c) Editorial Boards.... :Nil**

**22. Student projects**

**a) Percentage of students who have  
done in-house projects including inter  
departmental/programme : 10%**

**b) Percentage of students placed for  
projects in organizations outside  
the institution i.e.in Research  
laboratories/Industry/other agencies : Nil**

**23. Awards/ Recognitions received by  
faculty and students : Nil**

**24. List of eminent academicians and  
scientists/ visitors to the department :**

1. Dr.M.Verngal Reddy, Lecturer in Physics, Govt. Degree, Jammikunta.
2. Dr.K.Narender, Lecturer in Physics, Kakatiya Govt. Degree College,Hanamkonda.
3. Dr.M.Shankaranarayana, Lecturer in Physics, Pingle Govt. Degree College,  
Hanamakonda

**25.Seminars/ Conferences/Workshops  
organized & the source of funding**

**a)National : Nil  
b)International : Nil**

**26. Student profile programme/course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M *F	Pass percentage
Not Applicable				

\*M=Male F=Female

**27. Diversity of Students**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
Not Applicable			

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. : Nil**

**29. Student progression**

Student progression	Against % enrolled
UG to PG	03
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	-
Employed <ul style="list-style-type: none"> <li>Campus selection</li> <li>Other than campus recruitment</li> </ul>	-5
Entrepreneurship/Self-employment	-

### **30. Details of Infrastructural facilities**

- |  |  |
|--|--|
| <b>a) Library</b>                                      | <b>: 20 books of reference<br/>are with department</b> |
| <b>b) Internet facilities for Staff &amp; Students</b> | <b>: Yes Available</b>                                 |
| <b>c) Class rooms with ICT facility</b>                | <b>:LCD Projector</b>                                  |
| <b>d) Laboratories</b>                                 | <b>:Well equipped laboratories</b>                     |
- available.**

### **31.Number of students receiving financial assistance from college,University, Government or other agencies**

**: 95%**

### **32. Details on student enrichment programmes (special lectures /workshops/Seminar) with external experts**

**: Group Discussions, Quiz,  
Seminars, Extension Lectures**

### **33. Teaching methods adopted to improve student learning**

**: Lecture cum Demonstration  
method is used besides ICT tools  
like Computers, LCD  
Projectors, Mobile Phones,  
Online tools such as ZOOM,  
You tube, Whats app, etc are  
being utilized for student  
centered teaching and learning  
process.**

#### **4. Participation in Institutional Social Responsibility (ISR) and Extension**

##### **Activities**

: Participation in NSS, Red Ribbon club, Career Guidance Cell, TSKC, Virtual Class Room, Training – Placement Activities, Women Empowerment activities, Voter ID Programmes, Alumni

#### **35. SWOC analysis of the department and Future plans**

##### **Strengths:**

- Staff is well qualified
- There is scope for creating learning atmosphere with the ICT method of teaching

##### **Weaknesses:**

- Most of the students are first generation learners
- They help their parents in field work and fail to be regular to the classes

##### **Opportunities:**

- The colleges is located in the revenue division surrounded by many villages

##### **Challenges:**

- The students hailing from Telugu medium background are scared of English medium.

##### **Future Plans:**

The department is planning

- to start UG course with Electronics as specialization.
- to start PG course in Physics.
- to offer a certificate course in Areas of Physics/Electronics.

## Programme Outcomes:

### Students of Physical Science are expected to

- Inculcate scientific thinking and awareness.
- Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena of Physics.
- Acquire the skills in handling scientific instruments in the laboratory, and planning and performing experiments in a proper manner.
- Explain the basic scientific principles and methods. Analyze the applications of mathematics to the problems in physics and interpret the mathematical results.

## Course outcomes:

- By the end of first year the student should learn a thorough understanding of mechanics and waves and oscillations.
- By the end of second year the students will have understanding of thermodynamics and optics
- By the end of the third year the students should acquire thorough knowledge of electromagnetism and modern physics
- By the end of the course a firm foundation in the subject is laid for further higher studies and research.

## NAMES OF THE PROGRAMMES/ COURSES OFFERED (AT PRESENT)

The Physics department offers the following UG courses Under CBCS System ( BSc Physical Sciences).

1. Mathematics-Physics-Chemistry	---	EM
2 .Mathematics -Physics-Computer Science	---	EM

## ANNUAL PROGRAMMES/ COURSES (Year Wise) Up to 2015-16

1. Mathematics -Physics-Chemistry	---	EM
2. Mathematics -Physics-Chemistry	---	TM
3. Mathematics -Physics-Computer Science	---	EM
4. Mathematics -Physics-Computer Science	---	TM

## C.B.C.S. PROGRAMMES : COURSES (Semester Wise) from 2016-17 Up to 2017-18


1. Mathematics -Physics-Chemistry	---	EM
2. Mathematics -Physics-Chemistry	---	TM
3. Mathematics -Physics-Computer Science	---	EM
4. Mathematics -Physics-Computer Science	---	TM

## STRENGTH PARTICULARS:

Academic Year	Group	I YEAR	II YEAR	III YEAR	Total
2015 - 2016	B.Sc.(M.P.Cs.)	21	11	11	43
	B.Sc.(M.P.C.)EM	8	8	11	27
2016 - 2017	B.Sc.(M.P.Cs.)	16	19	8	44
	B.Sc.(M.P.C.)EM	9	8	7	24
2017 - 2018	B.Sc.(M.P.Cs.)	14	15	14	43
	B.Sc.(M.P.C.)EM	02	06	08	16
2018 - 2019	B.Sc.(M.P.Cs.)	17	08	08	33
	B.Sc.(M.P.C.)EM	09	01	06	16
2019-2020	B.Sc.(M.P.Cs.)	05	17	08	30
	B.Sc.(M.P.C.)EM	04	09	01	14

## Details of e –content

S. No	Name of the Lecturer	PPT	Lectures uploaded on YouTube
1	POTTABATTINI TYAGAI AH	25	15

Name in Full	: POTTABATTINI TYAGAIAH		
Designation	: ASSISSTANT PROFESSOR OF PHYSICS		
Father's name	: P.YELLAIAH		
Mother's name	: SAROJANA		
Date of Birth	: 08-11-1977		
Qualifications	: M.Sc. (PHYSICS), SET,B.Ed.		
Teaching Experience	: 5 YEARS		
Published: Single/ Joint	: ONE (SINGLE), IJAEMA, VOLUME XIII, ISSUE III, MARCH-2021		
Training Programmes Attended	: Refresher Course :01, FACULTY INDUCTION PROGRAMME -01.		
Confidential Services to Govt. Bodies	: NIL		
E-mail :	<a href="mailto:tyagi.sa.phy@gmail.com">tyagi.sa.phy@gmail.com</a>	Contact No. :	<a href="tel:7013618024">7013618024</a>
Member on:-	NIL		
Academic Council for evaluation:	Examiner		
Residential Address:	35-7-816,TNGO'S Colony Phase 2 Hanamkonda WARANGAL (U), TS, 506002		

### Academic Council Evaluation Services by Faculty:

S.No.	Name of the Lecturer	Paper Setting	Resource Person	Examiner
1	POTTABATTINI TYAGAIAH	-	-	Examiner

### Best Practices of the Department:

- **Problem-Based Learning-** Introduction of problem solving assessment to the UG students to have comprehensive understanding of Physics.
- **Intensive coaching** for JAM and PG entrance of reputed institutions of national level.
- **Study material:** The department is providing the study materials to the Students.

### Other Responsibilities of the Department:

S. No.	Name of the Lecturer	Additional Responsibility	Convener/ Member
1	POTTABATTINI TYAGAIAH	TSKC / TASK / VIRTUAL CLASS ROOM / Audio Visual Committee / IQAC / NAAC	Convener Member

**Seminars/Webinars/Workshops/STC/RCs Attended in the  
Academic Year 2018-19 & 2019-20 by  
P.Tyagaiah, Asst. Professor of Physics**

S.No.	Name of the Seminar/Workshop	From	To	Venue
1	27 th National Children Science Congress (NCSC)-2019	03-11-2019	03-11-2019	GOVT OF T.S SCHOOL EDU, SIDDHARTHA HIGH SCHOOL, CHINNARAOPET.W ARANGAL(R
2	1-Day Workshop On” Investment Planning For Executives”	21-12-2019		Dept. Of .Commerce in Association With Securities and Exchange Board Of India( SEBI) GDC,NARSAMPET
3	” RUSA Sponsored One Day National Seminar on ‘E-Content Development and OERs in Higher Education: Issues and Challenges’	31-01-2020	—	Govt. Degree College, Narsampet, Warangal Rural
4	One Day State level Work-shop on “ Low Cost Models with simulations in Under graduate Physics practicals”	07-03-2020		Govt.Degree College (A) Siddipet.
5	A two day online workshop on “ Online Tools and Software for Remote Teaching-Learning”	24-04-2020	25-04-2020	UGC-HRDC,JNTUH.
6	Webinar on e-Workshop on “ Virtual Labs”.	14-05-2020		Department of Physics , Bhavan’s Vivekananda College, Hyd.
7	International Webinar Current Trends in Nanotechnology - Nature Inspired Surface Engineering	23-05-2020		AURORA'S DEGREE & PG COLLEGE,Chikkadapally Hyderabad.
8	International Webinar on “ <i>Passive and Active Hyperbolic Metamaterials and their Applications</i> ”	26-05-2020		Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai
9	Virtual Symposium on Multifunctional Materials	17-06-2020		SRM Institute of Science & Technology, Ramapuram campus, Chennai.
10	One Day International E-Conference on Ethical & Quality Aspects in NANoscience and Nanotechnology Research (ICEQANNR-2020).	20-06-2020		SSP Mandal’s Vasantrao NAIK Arts,Commerce & Science College,Shahada.

11	International Webinar on Science and Technology of Thin Films	23-06-2020		MallaReddy Institute of Technology & Science,Hyd.
12	A National Level One-Week FDP on SCILAB TO ENGINEERING APPLICATIONS	27-06-2021	01-07-2020	UCETW,Kakatiya University,Warangal.
13	One Day National Webinar “ ICT Enabled Science Education in India”	28-06-2020		Guru Angad Dev,TLC,SGTB,Khasla College,University of Delhi,,PMMMNMTH of MHRD,TAS HYD.
14	Webinar on “ Future Generation Solar Cells”	04-07-2020		Department of Science & Humanities , Nehru Institute of Technology, Coimbatore.
15	ONE- WEEK National level FDP On “Sustainability of Institutions of Higher Learning in the Context of Covid-19:Challenges and Perspectives”	From 06 -07 - 2020	11-07-2020	GOVERNMENT DEGREE COLLEGE NARSAMPET,WARANGAL.(RURAL),T.S.
16	National Level FDP on Basic IT-Skill-Libre Office Suite	15-07-2020	20-07-2020	TSKC,NG College (A) Nalgonda,TS.

## ACTIVITIES OF DEPARTMENT OF PHYSICS (2018-2019 & 2019-20)



**Clean & Green**



**Admission Campaign.**



**Admission Campaign.**



**Teacher's Day Celebrations.**



**YUVATHARANGAM-2018-19.**



**TSLPRBT -2018 AWARENESS MEET**



ఆంధ్రజ్యోతి
19/19

### సీ విజిల్ను సద్వినియోగం చేసుకోవాలి అనుకలక్షం మనూచౌదరి

**మాట్లాడుతున్నట్టినీ కలెక్టర్ మనూచౌదరి**

**నర్సంపేట టౌన్, మార్చి 13 :** సీ విజిల్ యాప్ను ప్రజలు సద్వినియోగం చేసుకోవాలని జిల్లా ట్రైని కలెక్టర్ మనూచౌదరి అన్నారు. నర్సంపేట ప్రభుత్వ డిగ్రీ కళాశాలలో సీ విజిల్ యాప్పై అవగాహన సదస్సును కళాశాల ప్రిన్సిపల్ బి. చంద్రమౌళి అధ్యక్షతన బుధవారం నిర్వహించారు. ముఖ్య అతిథిగా విచ్చేసిన ట్రైని కలెక్టర్ మనూ చౌదరి మాట్లాడుతూ ఎన్నికల నియమావళి ఉల్లంఘనలను ఫిర్యాదు చేసినట్లైతే చంద నిమిషాలలో ఫిర్యాదు పరిశీలించబడుతుందన్నారు. ఎన్నికల ప్రవర్తన నియమావళిపై ఆయన విద్యార్థులకు అవగాహన కల్పిస్తూ తప్పుడు ఫిర్యాదు చేయొద్దన్నారు. సీ విజిల్, ఈవీఎం,

వీవీ ప్యాట్ల పని విధానాలపై విద్యార్థులకు వివరించారు. ఈ సందర్భంగా విద్యార్థుల సందేహాలను నివృత్తి చేశారు. డీఎఫ్ఓ పురుషోత్తం మాట్లాడుతూ ఎన్నికల సమస్యలపై 1950బోల్ శ్రీ నంబరకు పోన్ చేయవచ్చున్నారు. నోడల్ అధికారి ఆర్. శ్రీనివాస్రావు, డిపీఆర్ఓ పలవి, సీ విజిల్ యాప్పై విద్యార్థులకు అవగాహన కల్పించారు. ఈ కార్యక్రమంలో వైస్ ప్రిన్సిపాల్ తోట రమేష్, డాక్టర్ శ్రీనాథ్, గజానంద్, ఎన్ఎస్ఎస్ ప్రోగ్రాం అధికారులు రమేష్, శ్రీనివాస్, సుమతి, లకన్సింగ్, సరేందర్, సమ్మయ్య, రాజీరు, త్యాగయ్య, శివనాగ శ్రీను, హర్షచందర్, రేష్మాశాలిని పాల్గొన్నారు.

WORKSHOP ON cVIGIL



## CLEAN & GREEN –PLANTING SAPPLINGS.



## PROGRAMME ON LIFE SAVE CAPSULES & FIRST AID.



**One Day National Seminar on 'E-Content Development and OERs in Higher Education: Issues and Challenges'**





**Traditional Day Celebrations.**



**Plantining Saplings.**



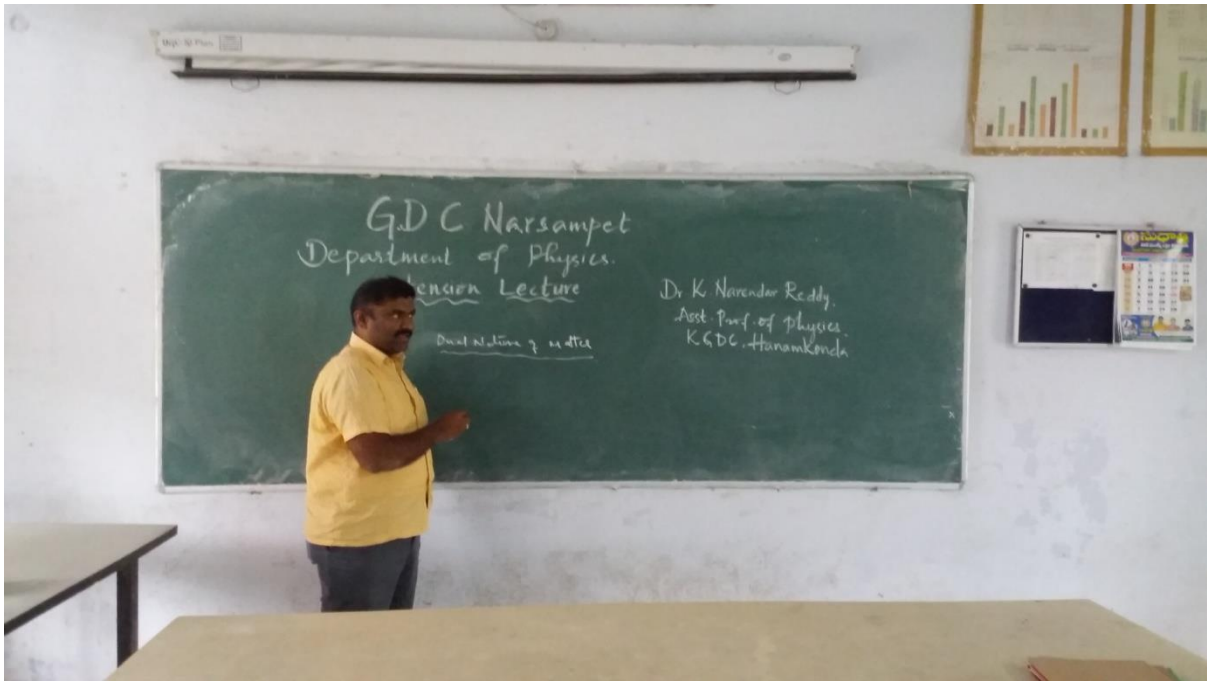
**Attended as Evaluator for 47<sup>th</sup> JNNSME EXHIBITION 2019-20.**



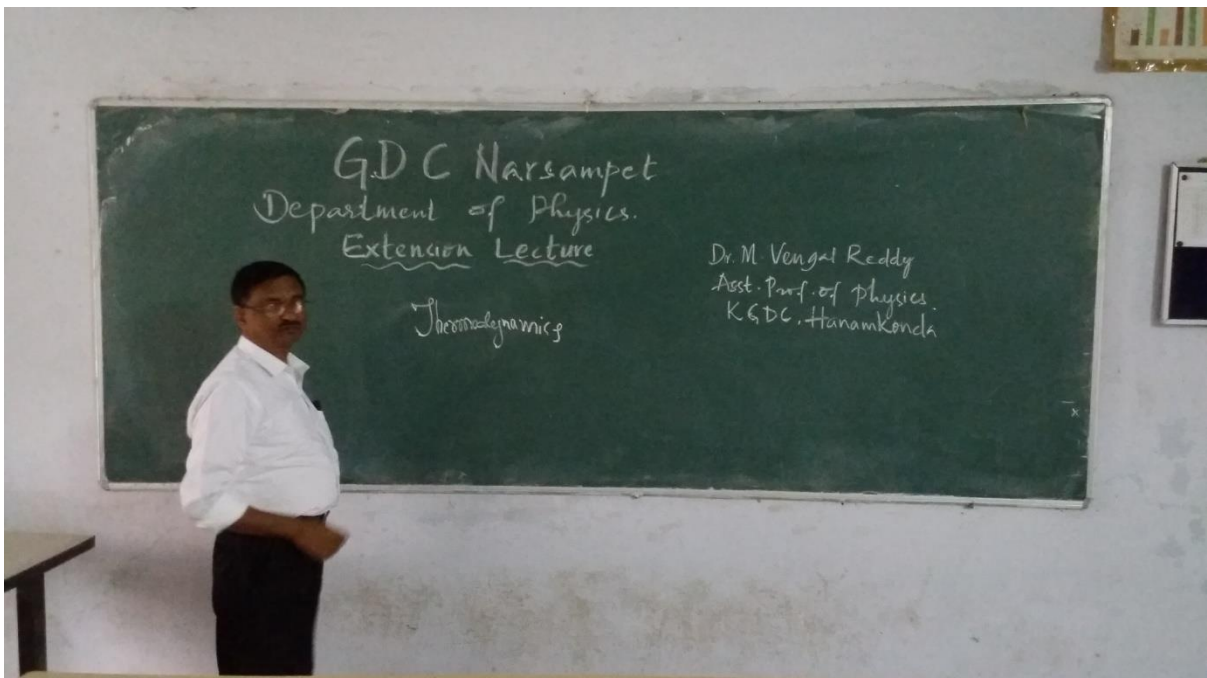


## Quiz Programme

## EXTENSION LECTURES.



**Extension Lecture by Dr.K.Narendar,KGDC,Hanamkonda.**



**Extension Lecture by Dr. M.Vengal Reddy, KGDC,Hanamkonda.**



**Geological Survey of India Awareness Programme.**



**State-Level Work-Shop at GDC Siddipet.**



**ONE-DAY WORKSHOP ON INVESTMENT PLANNING FOR EXECUTIVES.**



## NSS RALLY



## **TSKC-TASK ORIENTATION PROGRAMME.**



**YUVATHARANGAM-2019.**

## STUDENT SEMINARS



B.Veeranna B.Sc MPCS Third Year



Md.Neha rizwana B.Sc MPC Second Year Semester –IV.



**International Women's Day Celebrations.**



**VIRTUAL Class Room Inaguration By Hn'ble MLA  
Sri. P.Sudharshan Reddy Gaaru.**



**Telanganku Haritha Haram.**



**Telanganku Haritha Haram.**



Congratulating the student Topper J.Pranaya of BSc MPC & Cs.



**YOGA DAY CELEBRATIONS.**



**NSS DAY Quiz programme.**



**National Science Day Celebrations.**



**Telanganaku Haritha Haram- Planting saplings.**

శ్రీనివాస, కుమార పాల్గొని మద్దతును ప్రకటించారు.

## ప్రభుత్వ డిగ్రీ కళాశాలలో హరితహారం

నర్సంపేట, ఆగష్టు 22 (ప్రభ న్యూస్): స్థానిక ప్రభుత్వ డిగ్రీ కళాశాలలో కళాశాల అధ్యాపకులు ఉత్సాహంగా హరితహారంలో పాల్గొని మొక్కలు నాటారు. కళాశాల ప్రిన్సిపాల్ లెఫ్టినెంట్ డా॥బత్తిని శ్రీనివాస్ గౌడ్ అధ్వర్యంలో జరిగిన ఈ కార్యక్రమానికి ముఖ్యఅతిథిగా డీఎఫ్ ఓ పురుషోత్తం విచ్చేసారు. రాష్ట్ర ప్రభుత్వం ప్రతిష్టాత్మకంగా తీసుకోన్న ఈ హరితహారం కార్యక్రమంలో కళాశాల సిబ్బంది మొక్కలు నాటే కార్యక్రమంలో చురుగ్గా పాల్గొని సుమారు 200ల బేకు మొక్కలు కళాశాల ప్రాంగణంలో నాటారని తెలిపారు. నాటిన మొక్కలను జిల్లా డీఎఫ్ ఓ పురుషోత్తం సందర్శించి మొక్కలు నాటే విధానంను వివరించారు. కళాశాల మొత్తంలో మొక్కలు నాటి హరితహారం కార్యక్రమంలో ప్రభుత్వ డిగ్రీ కళాశాల ముందుండాలని సూచించారన్నారు. మొక్కలు నాటటం ద్వారా వాతవరణంలోనికి కావాల్సినంత ఆక్సిజన్ ను అందివ్వటంతోపాటు పర్యావరణ సమతుల్యతను కాపాడుతాయని, భూక్షమమును కూడా తగ్గిస్తుందని ప్రిన్సిపాల్ డా॥చంద్రమౌళి తెలియజేశారు. ఈ కార్యక్రమంలో ఎన్ఎస్ఎస్ ప్రోగ్రాం ఆఫీసర్ శ్రీనివాస్, రమేష్, వైస్ ప్రిన్సిపాల్ రమేష్, సుమతి, గజానన్, శ్రీనివాస్, నరేందర్, రాజేందర్, బాలకృష్ణ డా॥లక్ష్మీసింగ్, విద్యార్థులు పాల్గొన్నారు.



ప్రభుత్వ డిగ్రీ కళాశాలలో  
మొక్కలు నాటుతున్న అధ్యాపకబృందం