

Title: R&D Incentives-Inculcation of Research Culture among Faculty and Students

A Research Committee constituted in the college functions with the following

Goals:

- To inculcate the culture of research among faculty and student
- To identify the emerging and thrust areas of research and disseminate the information to staff and students
- To stimulate the faculty to initiate the work in the chosen area of interest and involve students in the project
- To motivate the faculty to present the findings in reputed journals / National / International Conferences and refine the on- going research work
- To stimulate the faculty and student to present/ publish the research papers in national / international conferences /reputed journals
- To encourage faculty use this opportunity to work towards a Ph.D. degree
- To give impetus and assistance to faculty to apply to funding agencies like AICTE, DST and DRDO for furthering their research work
- To kindle interest in students for active involvement in short duration and long duration projects.
- To uplift research work to the level of patenting
- To liaise with the management for procuring and establishing optimal infrastructure facilities required for research
- To identify thrust areas to know the individual research interest

The Context:

Gone are the days when academicians can sit in ivory towers and look down upon lesser mortals. The current demand of the society is for the learned to come down to earth and return to the society what they have received in a more beneficial form. To whom is this demand valid for if not the Engineers!

The repute of any educational institution rests on teaching – learning process and R & D activities. R & D as we all know refers to Research & Development – Research therefore is the back bone for the development of the students, teachers and the Institution

our college being conscious of this state of affairs, has been giving dynamic thrust towards developing and augmenting the research activities of the college to keep abreast of the advances in the fields of Engineering & Technology. Inculcating research aptitude in faculty members and students has taken priority almost equal to the teaching-learning process. The competency of the students to face the challenges of the society at the end of their four- year tenure will be enhanced not just by their grades and ranks but the ability to apply their knowledge, analyse the problem, synthesize a solution and evaluate the outcome. These skills are developed by working on real time projects during their academic career. In order to direct the students along these lines, the faculty also have to be fully equipped in planning and guiding research. Just as much as the teaching learning process is a partnership between the teacher and the student, so also is the research and development process in which the guide and the researcher have equal role to play.

The outcome of research should be relevant to the societal needs and a section of the society at least should be direct beneficiaries. Therefore, taking up research activities shapes a person with moral responsibility and a value system that enhances his/ her commitment towards fulfilling the needs of the society.

Thus the college wishes to show- case the R&D activities of the college as one of the best practices.

The Practice:

The contextualization of the above is effected by the following practices:

- Faculty pursuing Ph.D and with Ph. D. degrees are encouraged to attend and present papers in national and international conferences to get exposed to recent and emerging trends in their fields of interest.
- To facilitate the same, the management extends financial assistance to the tune of 50% towards TA, DA and registration fee. On duty leave can be availed by the teachers for such participations. These provisions are also extended to students for participations in seminars/ symposia/ project contests etc.
- Teachers with Ph.D. are given monthly financial allowance of ` 10000/ to help meet expenditure towards furthering their research work
- Concession in weekly work load up to six hours is offered to faculty working on funded projects.
- External experts from bodies like DST and DRDO are invited to address the faculty to give assistance in preparing a project report to be submitted for funding.

- Seed money is provided to carry out work necessary preliminary work to enhance the probability of receiving funding
- Eminent researchers are invited to campus for delivering lectures during National and International seminars/ workshops/ conferences organized by the various departments in the college to boost the knowledge level of the faculty and the students.
- Faculty can apply to the management for travel, boarding and lodging allowances to visit reputed research laboratories and funding agencies like AICTE, DST and DRDO either to submit their proposals in person or follow up the submitted proposals.
- As a part of the curriculum prescribed by the Mallareddy engineering college(A), The final students have to take up and complete project work. Turning this to the advantage of students, the nature of project work assigned to the students is of quality and sometimes a portion of the research work carried out by the faculty members. Such a practice lifts the level of the students to a higher platform of knowledge domain.
- Winners in project contests are rewarded with equal prize money by the management during Annual College Day celebrations as recognition to the work of the student and as a motivation to the others to follow suit.
- Memorandums of Understanding have been signed with many industries / agencies and such a practice plays a vital role in interaction of faculty and students with the industries and design projects in collaboration with them.
- The idea of Interdisciplinary projects has been promulgated and this has caught on by the students and faculty.

Evidence of Success:

- A whopping amount of `50.52 lakhs has been disbursed by the Management as equal prize money for the faculty who have won prizes in project contests and proto type development in the last six years.
- The above projects include interdisciplinary research work of IT & Mechanical faculty and CIVIL & ECE faculty
- Such a track record has reflected in the campus placement record of students.

Problems Encountered and Resources Required:

1. Sustained motivation of students and faculty is always a challenge
2. Time constraint is a spoke in the wheel, in planning and execution of research specially during formative and summative assessment processes and when ad hoc responsibilities are assigned.
3. More generous seed money / advance from the management for preliminary work or while awaiting funds from agencies is always welcome.
4. Prompter reply from funding agencies will be encouraging.
5. If the funding agencies can point out the reason for rejecting the proposal or offer suggestions for improvement, it will go a long way in the development to faculty and hence the students.

Title: Serving community through NSS

National Service Scheme (NSS) UNIT I & II

Aims and Objectives

The NSS is part of our academic, social and personal life as it is the third dimension of education. It allows the students to actively contribute their services for the cause of community and the nation, thus helping them develop their personality. Service and attain the traits of a leader of the nation. As such, the NSS is the right platform, where the student- youth of the nation may get to involve with real-life social activities, and thereby become responsible citizen of India.

Motto of NSS- “NOT ME BUT YOU”

This reflects the essence of democratic living and upholds the need for selfless service and appreciation of the other person's point of view and also to show consideration for fellow human beings. It underlines that the welfare of an individual is ultimately dependent on the welfare of society on the whole. Therefore it should be the aims of the NSS to demonstrate this motto in its day-to-day programmes.

NSS SYMBOL

The symbol for the NSS has been based on the giant Rath Wheel of the world famous Konark Sun Temple (The Black Pagoda) situated in Orissa, India. The wheel portrays the cycle of creation, preservation and release and signifies the movement in life across time and space, The symbol thus stands for continuity as well as change and implies the continuous striving of NSS for social change.

It stands for continuity as well as change and implies the continuous striving of the NSS for social transformation and advancement.



ABOUT THE NSS

The National Service Scheme (NSS) had its birth on September 24, 1969, during the Gandhi centenary year. The scheme was first launched in 37 Universities comprising 40,000 students.

The **National Service Scheme (NSS)** is an Indian government-sponsored public service program conducted by the Ministry of Youth Affairs and Sports of the Government of India.

Popularly known as NSS, the scheme was launched in Gandhiji's Centenary year in 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges, Universities and at +2 level working for a campus-community (esp. Villages) linkage.

Today the NSS has become the largest Government organization of students in the country comprising members from the +2 level to the college and university level. The strength of volunteers has now increased to more than 30 lakhs, which makes the NSS one of the largest student forces in the world. The NSS has good relations with different government agencies and non-government organizations in implementing its programmes for building up community assets, helping the underprivileged people through education and social services.

The NSS is useful not only for the development of the students' personality, but it also helps promote the unity and integrity of the nation by bringing together young people from diverse geographical and socio-cultural backgrounds.

The National Service Scheme (NSS) started functioning at Jadavpur University since 1969 and the performance of this scheme is highly satisfactory.

More than three thousand recorded student volunteers are working on various activities in regular and special camping programmes under the supervision of the programme officers and programme coordinator. The objective of the NSS is “development of the personality of students through community service.”

→ **Important Thrust Areas**

- ◆ Child Marriage
- ◆ Gender Issues
- ◆ Dowry
- ◆ Sex Determination Test
- ◆ Fitness
- ◆ Tobacco
- ◆ Substance Abuse
- ◆ Sports
- ◆ Yoga
- ◆ Adventure
- ◆ HIV/AIDS & Adolescent Health Issues
- ◆ Water Literacy
- ◆ National Integration & Social Harmony
- ◆ Employment & Livelihood
- ◆ Disaster Management
- ◆ Environment Enrichment
- ◆ Cleaning

- ◆ Afforestation
- ◆ Stage shows or a procession creating awareness of such issues as social problems, education and cleanliness
- ◆ Awareness Rallies
- ◆ Inviting doctors for health camps

Objectives

The broad objectives of the NSS are to : -

- (i) Understand the community in which the students work.
- (ii) Understand themselves in relation to their community.
- (iii) Develop among themselves a sense of social and civic responsibility.
- (iv) Identify the needs and problems of the community and involve them in the solution of problems.
- (v) Utilize their knowledge in finding practical solution to individual and community problems.
- (vi) Develop competence required for collective existence and sharing of responsibilities.
- (vii) Gain skills in mobilizing community participation.
- (viii) Acquire leadership qualities and democratic attitude.
- (ix) Develop capacity to meet emergencies and natural disasters.
- (x) practice national integration and social harmony.

THE NSS BADGE

The NSS Symbol is embossed on the badge. The eight bars in the wheel represent the 24 hours of a day. The red colour indicates that the volunteer is full of young blood that is lively, active, energetic and full of high spirit. The navy blue colour indicates the cosmos of which the NSS is tiny part, ready to contribute its share for the welfare of the mankind.

THE NSS DAY

NSS was formally launched on 24th September, 1969, the birth centenary year of the Father of the Nation. Therefore, 24 September is celebrated every year as the NSS Day with appropriate programmes.

SUMMARY OF NSS ACTIVITIES FROM THE A.Y. 2016-17 TO 2019-20

S.No	ACADEMIC YEAR	NO OF ACTIVITIES
1	2019-20	23
2	2018-19	15
3	2017-18	14
4	2016-17	11

There are no predefined or preassigned tasks it is left up to the volunteers to provide service in any way that is feasible. Camps typically last between a week and 10 days, although camps for shorter periods are also conducted by NSS.

LIST OF NSS ACTIVITIES FOR THE A.Y 2019-20

S.NO	NAME OF THE EVENT	DATE OF THE ACTIVITY
1	World No Tobacco day	31 st May 2019
2	International yoga day	21 st June 2019
3	World Environment Day	5 th June 2019
4	Swachh Bharat summer internship Programme (SBSI)	10 th June to 31 st July 2019
5	Awareness Campain of Jal Shakthi Abhiyan	29 th July 2019
6	One student One tree campaign	1 st August to 15 th August 2019
7	Summit for and of Divyangjan	13 th September to 15 th September 2019
8	Harith Haaram programme	24th August 2019
9	Fit India Movement Campaign	29 th August 2019

10	Swachh Pakhwada Campaign	1 st September to 15 th September 2019
11	Massive Bucket immersion	4 th September 2019
12	Swachhta Hi Sewa Campaign	11 th September to 2 nd October 2019
13	NSS Day Golden Jubilee celebrations	22 nd September to 24 th September 2019
14	Awareness campaign on Tobacco free society and Pledge	5 th October 2019
15	Rashtriya Ektha Diwas	31 st October 2019
16	Free Health check up camp	9 th November 2019
17	Celebration of Indian Constitution Day	26 th November 2019
18	Aids day Awareness Rally	1 st December 2019
19	Kill Cancer Awareness programme	18 th December 2019
20	National Youth day	12 th January, 2020
21	Do Good- Be Good Campaign	23 rd January 2020
22	Beti Bachao Beti Padhao programme	24 th January 2020
23	National Voters Day Pledge	25 th January 2020

International Yoga Day

MREC celebrated International Yoga Day to convey the message of keeping mind and body fit through asanas. Students made charts and performed asanas under the guidance of Faculties.

Conducted Date : 20-06-2020

Participantes : 100 Students.



MASSIVE BUCKET IMMERSION

MREC, Maisammaguda, created history on 04 August 2019 as it bid adieu to more than 500 idols of clay Ganesh in the Massive Bucket Immersion campaign amidst a huge gathering of 800 students and faculties.

The motto of the event was 'Save Lakes and Rivers'





World Environment Day

MREC organised various activities to mark World Environment Day. Students showed their concern towards the environment under a series of activities. Students also planted saplings around the campus and they collected information on various trees and plants and shared their views with their friends and faculties. Students expressed their love for Nature and pledged to protect it by planting more trees. Principal appreciated the efforts of the students and encouraged them to adopt eco-friendly measures to conserve various life forms on the Earth.

Conducted Date : 05-06-2020

Participants : 140 Students.





Say No to Plastic Workshop

It is important to teach students about the importance of **saying 'No' to plastics**. Students must be discouraged from using plastic bags. Let them know how it can block pipes and ultimately end up in seas and oceans, eventually endangering wildlife.

Conducted Date : 20-02-2020

Participantes : 75 Students.

Don't Use Plastic Stage Show by MREC Students :



ADOPTED VILLAGE BY MREC

MREC adopted five villages in which we have done Swach Bharth, Science Fair, Health Campus, Haritha Haaram, Blood donation camp and many more.

The Village Adoption study provides an opportunity to understand the factors that are responsible for under-development in a village, despite plethora of programmes / schemes in vogue. They also get familiar with the interventions, participatory interaction, understanding the prevailing situation, mobilization of community, initiate participatory processes, establishing linkages among line departments etc. which are likely to strengthen the process of development and ensure poverty reduction and strengthen natural resources management.

SWACH BHARATH at Govt. *Primary* School, Mysireddypalli village



ORGANISATION OF SCIENCE FAIR AT GOVT. SCHOOL







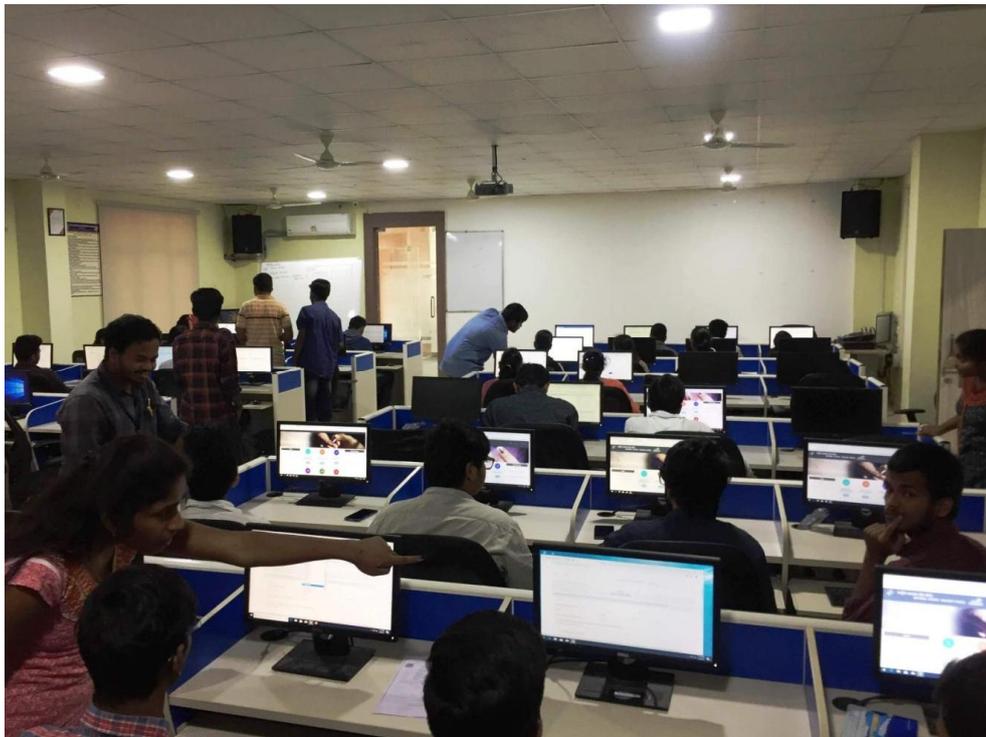
FREE MEDICAL CAMPS AT DUNDIGAL VILLAGE BY MREC

Objective of Health camps is to screen the patients in each and every village of the taluka at their door step covering the whole state, give health related awareness, distribute medicines to treat common diseases and refer, as the case may be for surgery/treatment. This Module explains the Health camps confirmation, submission of camp claim and processing the claim.





NEW VOTER ENROLLMENT CAMPAIGN



Blood donation drives contribution with Guinness world record achievements

మల్లారెడ్డి ఇంజనీరింగ్ కళాశాలలో రక్తదాన శిబిరం



కళాశాలలో నిర్వహించిన రక్తదాన శిబిరం



LIST OF NSS ACTIVITIES FOR THE A.Y 2018-19

S.NO	NAME OF THE EVENT	DATE OF THE ACTIVITY
1	Swachh Bharat Summer Internships	SUMMER HOLIDAYS
2	International yoga day	21 st June 2018
3	PMGDISHA	22 nd to 28 th June 2018
4	Telanganaku Haritha Haaram	15 th July 2018
5	Swachh pakhwada campaign	1 st August to 15 th August 2018
6	health awareness programme	16 th August 2018
7	Massive Bucket immersion	15 th September 2018
8	National Adventure camp	5 th November to 14 th November 2018
9	National Youth day	12 th January, 2019
10	Awareness campaign on road safety	24 th January 2019
11	New voter enrollment campaign	2 nd February 2019
12	she teams awareness programme	15 th march 2019
13	World water day	22 nd March 2019
14	Work shop on Rural community engagement at JNTUH	25 th March 2019
15	International youth exchange between India and Bangladesh	1 st April 2019

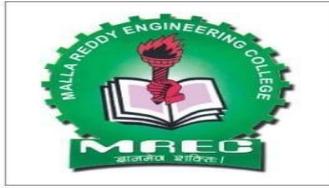
LIST OF NSS ACTIVITIES FOR THE A.Y 2017-18

S.NO	NAME OF THE EVENT	DATE OF THE ACTIVITY
1	NSS Programee officer at National level TOT held at RGNIYD, Tamilnadu.	13-2-2018 to 15-2-2018
2	National youth day celebrations	12-01-2018
3	India Srilanka youth exchange programme	4-12-2018
4	Rural immersion campaign	11-11-2017 to 12-11-2017
5	Haryana Telangana youth meet	6-11-2017
6	Rashtreya ektha diwas	31-10-2017
7	Bathukamma celebrations	23-9-2017
8	Teachers day celebration	5-9-2017
9	Clay Ganesha- Bucket immersion campaign	29-8-2017
10	Swachh pakhwada campaign	1-8-2017 to 15-8-2017
11	Quit india day celebrations and new india pledge	9-8-2017
12	Anti drug awareness campaign	5-8-2017
13	Haritha haaram	15-7-2017
14	International yoga day	21-6-2017

LIST OF NSS ACTIVITIES FOR THE A.Y 2016-17

S.NO	NAME OF THE EVENT	DATE OF THE ACTIVITY
1	National youth meet on safe water for future	21-3-2017to 22-3-2017

2	National youth day celebrations	12-01-2017
3	Awareness campain on cash less transactions	29-12-2017
4	Anti drug awareness campaign	9-12-2017
5	International students day (Birth anniversary of Dr. A.P.J. Abdul Kalam)	15-10-2016
6	Bathukamma celebrations	30-9-2016
7	Teachers day celebration	5-9-2016
8	Anti ragging awareness campaign	17-8-2016
9	Clay Ganesha- Bucket immersion campaign	06-8-2016
10	Haritha haaram	11-7-2016
11	International yoga day	21-6-2016



MALLA REDDY ENGINEERING COLLEGE(A)



NATIONAL SERVICE SCHEME

***** Thank You *****