

# **SELF STUDY REPORT**

## **FOR ACCREDITATION OF**

**Dr N.T.R. COLLEGE OF AGRICULTURAL ENGINEERING  
BAPATLA**



**ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY**

**Dr N.T.R. COLLEGE OF AGRICULTURAL ENGINEERING  
BAPATLA - 522 101**



**2020**





# **Self Study Report 2020**

**M.Tech. Programme**



**Dr N.T.R. College  
of Agricultural  
Engineering,  
Bapatla - 522 101  
Andhra Pradesh**

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**SELF STUDY REPORT FOR ACCREDITATION OF  
PROGRAMME  
M.Tech. (Agricultural Engineering)  
Dr NTR College of Agricultural Engineering, Bapatla**

**6.4.1 Brief History of the Degree Programme**

M.Tech. (Agricultural Engineering) PG programmes in Dr. NTR College Agricultural Engineering, Bapatla were started from the academic year 2006-07 onwards in the three Departments of Farm Machinery and Power Engineering, Processing and Food Engineering and Soil and Water Engineering. PG students are provided with a monthly stipend of Rs.7000/-. ICAR specified syllabus is being followed for teaching M.Tech. (Agricultural Engineering) courses.

**6.4.2 Faculty Strength**

There is no separate faculty for running the M.Tech. (Agricultural Engineering) programmes. Faculty of the College is shown under Section 6.4.2 of B.Tech. (Agricultural Engineering) degree programme are responsible for running the M.Tech. (Agricultural Engineering) programmes also.

**6.4.3 Technical and Supporting Staff**

There is no separate Office and Laboratory Staff for running the M.Tech. (Agricultural Engineering) programmes. Office and Laboratory Staff of the College is shown under Section 6.4.3 of B.Tech. (Agricultural Engineering) degree programme are responsible for running the M.Tech. (Agricultural Engineering) programmes also.

**6.4.4 Classrooms and Laboratories**

There are 3 dedicated classrooms with good lighting and ventilation being used for M.Tech. (Agricultural Engineering) degree programmes in three specializations of Farm Machinery and Power Engineering, Processing and Food Engineering and Soil and Water Engineering for conducting theory classes. These classrooms are equipped with LCD projector, chalk board, furniture, etc. Soil and Water Engineering classroom is equipped with interactive board also. Each department is having different laboratories as mentioned under Section 6.4.4 of B.Tech. (Agricultural Engineering) degree programme to conduct the practical classes regularly.

### 6.4.5 Conduct of Practical and Hands-on Training

Practical classes are conducted in respective laboratories as per class Time-Table with the instruments, equipment, machinery, etc. available. During Second Year First Semester, students are sent to ICAR research institutes (CRIDA, Hyderabad; CIAE, Bhopal; CIAE, Regional Centre, Coimbatore; CIPHET, Ludhiana and Abhor etc.), Central Government Organizations (Central Institute of Tool Design, Hyderabad; NRSC, Kolkata; SFMTTI, Garladinne etc.), State Government Organizations (APSAC, Vijayawada etc.) and industries for one month to impart hand-on training to them.

### 6.4.6 Supervision of Students in PG Programmes

All classrooms, laboratories, examination hall, all premises of the College, etc. are connected with surveillance CC cameras to monitor the teaching activities and being monitored continuously. Video of each camera is recorded in the system.

### 6.4.7 Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers, etc.)

Students are very happy with the conduct of the M.Tech. (Agricultural Engineering) academic programme being handled at Dr N.T.R. College of Agricultural Engineering, Bapatla.

#### Feedback of M.Tech. (Agril Engg) Passed Out Students

I, P. Indraj, BEM-15-14 had completed my M.Tech. in the Department of Soil and Water Engineering at College of Agricultural Engineering, Bapatla from 2015-2017. I am pleased to express my gratitude towards my teachers who imparted me knowledge along with course curriculum. Support and guidance I received during progress of my project work helped a lot in timely completion of my research. I always had a good learning atmosphere in the classrooms and also with the teachers. I learned the discipline, behaviour ethics and much more from my proficient teachers who played a key role in self tuning my career as an Assistant Professor in N.S. Agricultural College, Markapur after my M.Tech degree.

yours faithfully,

P. Indraj  
7/9/2020



I, Subarna Ghosh was a student of College of Agricultural Engineering, Bapatla. I did M.Tech (Processing & Food Engineering) in the academic year 2016-18. It was quite a good experience studying in the college. Faculty was talented and friendly and labs also well equipped which made study as well as research work easier. Although the laboratories are well-equipped with instruments, students need to be engaged so that the resources can be fully utilized.

*Subarna*  
08/09/2020  
SUBARNA GHOSH  
ID NO. :- BEM-16-13  
(Ph.D Scholar,  
IGKV, Raipur, C.G.)

My self Er. Mahesh babu Thumati studied M-Tech (Agricultural Engineering) during the year 2017 in the Department of Farm Machinery and power engineering at Dr. N.T.R College of Agricultural Engineering & Technology, Bapatla. So I' am sharing my personal opinion regarding the department. My department has well and good experienced faculty members. They are giving to some guest lectures regarding the subject for improving the new technologies of our specialization. I have to learn more theoretical as well as practical knowledge from the subjects and receive so many new technology idea from my faculty members. Department have good laboratory for practical work regarding the subjects and also projects work. The well experienced technicians for helping the practical and project work.

Thanking you sir

*T. Mahesh Babu*  
Yours sincerely

Er. Mahesh babu Thumati



Myself Ambiripuri Rahul studied M.tech(Agricultural Engineering) with Farm Machinery and Power Engineering as specialization during the academic year 2017-2019 at Dr. NTR College of Agricultural Engineering & Technology. Hereby, I am writing to express my views regarding the respective department. Our department consisted of well experienced faculty who always taught and encouraged us to learn things practically. They always tried to bring our best by making sure we were well aware of basic concepts within the subject. Well equipped laboratories in the department made our education more easy and practical oriented. Well trained technicians in the department always made us to handle the instruments and machines safely and scientifically. Even after our course of study we receive the same support and encouragement from our teaching and non-teaching staff in the department.

Thanking you sir,



Yours Sincerely,

Ambiripuri Rahul.

#### **6.4.8 Student Intake and Attrition in the Programme for Last Five Years**

Admission process carried out to the M.Tech. programmes is through entrance examination (JRF) conducted by the ICAR every year(since 2018-19) as per the reservation policy of the state. Earlier ANGRAU conducted the entrance examination based on the B.Tech. (Agricultural Engineering) syllabus. Present intake is 13 students in all the three departments of M.Tech. (Agricultural Engineering) programme. Apart from regular admission, over and above, 15% of students secure admission under ICAR quota with ICAR fellowship. From the academic year 2017-18 onwards, provision is made for International students also for PG programmes. One student from Afghanistan has completed M.Tech. (Soil & Water Engineering) programme. So far, 102 PG students were awarded their degrees. The college has 32 post graduates on roll during the academic year 2019-20.

### Student Intake and Attrition for the College in PG Programmes

Year	Intake			Attrition			Attrition (%)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>M.Tech. (Farm Machinery and Power Engineering)</b>									
2015-16	5	0	5	0	0	0	0	0	0
2016-17	1	4	5	0	0	0	0	0	0
2017-18	4	0	4	2	0	2	50	0	50
2018-19	4	0	4	0	0	0	0	0	0
2019-20	4	1	5	1	0	1	20	0	20
<b>M.Tech. (Processing and Food Engineering)</b>									
2015-16	5	2	7	0	0	0	0	0	0
2016-17	2	6	8	0	1	1	0	12.5	12.5
2017-18	0	3	3	0	0	0	0	0	0
2018-19	3	5	8	1	0	1	12.5	0	12.5
2019-20	2	4	6	0	2	0	0	33.3	33.3
<b>M.Tech. (Soil and Water Engineering)</b>									
2015-16	2	4	6	0	0	0	0	0	0
2016-17	2	3	5	0	0	0	0	0	0
2017-18	1	4	5	0	0	0	0	0	0
2018-19	1	3	4	0	0	0	0	0	0
2019-20	1	2	3	1	1	2	33.3	33.3	66.6

#### 6.4.9 ICT Application in Curricula Delivery


The College is having smart classrooms, interactive board, audio visual facilities, etc. for teaching and for conducting seminars and progress of the students' projects. Teachers are using these facilities regularly to deliver course lectures with power point presentation. Students are encouraged to deliver presentations through power point presentations.

#### 6.4.10 SSR of the M.Tech. (Agricultural Engineering) Degree

Self study report of the M.Tech. (Agricultural Engineering) programme of Dr N.T.R. College of Agricultural Engineering, Bapatla is here with submitted.

#### 6.4.11 Certificate

I, the Associate Dean of the Dr NTR College of Agricultural Engineering, Bapatla, Andhra Pradesh hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the records available in the college and degree awarding university.

  
 30/09/2020  
 Signature of the Associate Dean with Date and Seal  
 Associate Dean  
 Dr NTR College of Agril. Engineering  
 BAPATLA - 522 101, A.P.