Self - Study Report

for Accreditation

2015-16 to 2019-20

College of Dairy Technology, Etawah

Chandra Shekhar Azad
University of Agriculture & Technology, Kanpur - 208002

Self Study Report

2015-16 to 2019-20

for

Accreditation of Undergraduate Programme

&

College of Dairy Technology, Etawah (U.P.)

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Chandra Shekhar Azad University of Agriculture & Technology, Kanpur - 208002

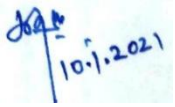
Foreword

Dairy farming becomes profitable only on realizing the importance of value-addition by conversion of milk into numerous nutritious milk products. As such, to generate the required manpower for the dairy industry, Dairy Technology Program was initiated from the laid foundation of this college by Shri Mulayam Singh Yadav Ji, the then Chief Minister of Uttar Pradesh on dated 14.01.2006 keeping in view the vast potential of dairy in the nearby districts of Etawah, Firozabad, Mainpuri, Kannauj and Auraiya. College of Dairy Technology, at Etawah came in to fully functional w.e.f.2015 under Chandra Shekhar Azad University of Agriculture and Technology Kanpur with approved course of ICAR.

The present curriculum adopted for B. Tech. (Dairy Technology) is as per the recommendations of the ICAR IV Deans Committee. Students are trained in the preparation of various products during Hands on Training in the seventh semester at the respective institutes followed by industrial training (In-plant training) for 5 months during last semester in commercial dairy plants of Uttar Pradesh.

The college building houses well-furnished audio-visual enabled classrooms, computer lab and laboratories. Students were successful in securing admission for pursuing higher studies in various reputed institutions. The graduates of this institution are also creating a remarkable impact on the dairy industry of the country by getting employment in the reputed firms like Amul, Modern Dairy, Parag Dairy; etc.

The college has constituted a steering committee and different task force groups for preparation of Self-Study Report of College of Dairy Technology, Etawah. These committees and task force groups met several times for preparation of this report. The suggestions of faculty members, staff and students have been incorporated in this report. We are very much thankful to all members of the steering committee and different task force groups for their valuable contributions and efforts in preparation of this report.



(J. P. Yadav)
Dean

Self Study Committee

Chairman: **Dr. J.P. Yadav**, Dean Acting, College of Dairy Technology, Etawah

Coordinator/ Member Secretary: Dr. N.K. Sharma, Associate Professor, College of Dairy Technology, Etawah

Coordinator/ Member Secretary: Dr. Devendra Kumar, Associate Professor, College of Fisheries Science & Research Center, Etawah

TASK FORCE COMMITTEE

Task	Committee	Designation
History and Development of College Mission, Goals & Objectives Organization & Governance Academic Programme and Curricula	Dr. N.K. Sharma	Associate Professor, Physics
	Dr. Rajiv Singh	Asstt. Professor, Business Marketing
Faculty and other Human Resource Students and Students, Development, Research & Extension Education	Dr. Devendra Kumar	Assoc. Professor, Agril. Engineering
	Er. T.K. Maheshwari	Asstt. Professor, Farm Machinery
	Er. Bhupendra Singh Chauhan	SMS, KVK, Etawah
Library and other learning resource Physical facilities, Finance resource, SWOT analysis and summary	Dr. N.K. Sharma	Associate Professor, Physics
	Er. P.K.S. Bhadauria	Associate Professor, Civil Engineering
	Dr. Rajiv Singh	Asstt. Professor, Business Mgt.
	Sri Girja Shankar Katiyar	Asstt. Account Officer, Kanpur
Editorial Board	Prof.(Dr.) Vijay Kumar Yadav	Chief Cerealist& Prof. & Head, ABM
	Dr. Harish Chandra Singh	Professor, Agril. Extension
	Dr. N.K. Sharma	Associate Professor, Physics
	Er. Dilip Kr. Verma	Asstt. Prof, Computer Science

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6.4. Self Study Report for undergraduate programme- B. Tech. Dairy Technology

6.4.1. Brief History of the Degree Programme

Clearly mention in which year the degree program was initiated along with its objective and accomplishments.

The College of College of Dairy Technology, Etawah, established under the aegis of Chandra Shekhar Azad University of Agriculture and Technology Kanpur (CSAUA&T) renowned as '*Patthar College'*. This university has the great historical background in the country. The great devastating famine of 1876-78 had taken a heavy toll of the population. A famine commission was appointed in 1880. The commission made several recommendations for development of agriculture. The resolution of the government of India during December 1881 defined the functions of the provincial agricultural departments as an agricultural enquiry for improvement and famine relief. Statistical enquiries and management of famine relief became the primary concerns of the department and the subject of agriculture was combined with land reforms and settlement work. However, the first serious attempt to form a policy of agricultural research was made in 1889 by Dr. J. A. Voelcker, a consultant chemist to the Royal Agricultural Society. The first attempt at higher education level was the opening of Agricultural Schools at Coimbatore, Poona and Cawnpore in 1878, 1890 and 1893, respectively. Considering the severity of famine, Viceroy Lord Curzon thought that India requires more attention on development of agriculture. This led to the government of India to take the decision to start agricultural education in the country. Accordingly, four places were selected in 1905 covering the entire country for establishing four agricultural schools. First school was opened in Lyallpur (now known as Faisalabad in Pakistan) of undivided Punjab (having five rivers) in north India, second in Cawnpore (Kanpur) for meeting the requirements of Central India, third in Coimbatore for meeting the requirements of South India and fourth in Pune for meeting the requirements of southern plateau. Three years' course in agriculture for matriculates started after up gradation of School of Agriculture to Cawnpore Agricultural College, leading to award a diploma of "Licentiate in Agriculture" (L. Ag.).A.W. Fremantle became the first Principal of the College in 1906. During 1913 revenue classes separated from the agricultural course and

placed under a separate administrative body. In 1914, four-year Diploma course (L. Ag.) introduced replacing the three-year course. The last two-years of (L. Ag.) diploma came to be substituted by B.Sc. (Ag.) degree in Agricultural Sciences and emerged as Government Agricultural College that introduced a 2-year B.Sc. (Ag) Programme during year 1928. The College secured affiliation with Agra University, Agra in 1930 and first batch of B.Sc. (Ag.) students was awarded the degree in 1931. The Masters degree programmes initiated in major disciplines of Agriculture during 1944 and Ph.D. programmes started in major disciplines of Agriculture in 1948. During 1969, Government Agricultural College upgraded to UP Institute of Agricultural Sciences, and finally in 1975, Chandra Shekhar Azad Krishi Evam Prodyogic Vishwavidyalaya" enacted on March 1st, 1975by merging the erstwhile UP Institute of Agricultural Sciences, Kanpur and UP College of Veterinary Sciences, Mathura.

The establishment process of College of Dairy Technology, Etawah, under aegis Chandra Shekhar Azad University of Agriculture and Technology Kanpur started with the announcement made by Shri. Mulayam Singh Yadav Ji, the then Chief Minister of Uttar Pradesh on dated 14.01.2006 keeping in view the vast potential of dairy in the nearby districts of Etawah, Firozabad, Mainpuri, Kannauj and Auraiya. After the completion of necessary constructional work, the College of Dairy Technology, Etawah became functional from Year 2015.

Goals:

To fulfill the above mission, the following goals are set.

- To teach and train the students in the field of Dairy technology in order to enable resourceful in Dairy production & value addition to dairy products and related technologies.
- To provide basic knowledge required conducting the experiments to generate suitable technologies for the benefit of Farming community and stake holders.
- To train human resources for dairy technology dissemination to enhance production and productivity of Farming community and stake holders.
- To create facilities to faculty members and students for innovative research.

Objective

- To undertake and apply research in different aspects of Dairy technology covering production, value addition, marketing and management of dairy products.
- To disseminate proven technologies in the field of dairy technology for the benefits of farming community.
- To develop technology suitable for the dairy community, process industries, food and other related areas.
- To organize programs related to transfer of technologies for dairy technology and rural development in the region.
- To collaborate with other agencies involved in teaching, research and developmental programs in the field dairy technology nationally and internationally.
- To provide consultancy services to farmers and other stake holders engaged in dairy occupation and rural development practices.
- To provide the students necessary exposure to the recent developments in the field of dairy technology in various regions at State and National levels through both State and All India educational tours and visits.

Accomplishment:

The first batch of student took admission in undergraduate (UG) programme in Bachelor of Dairy Technology (DT) during academic session 2015-16 with the provision for intake of 40 students. In first batch students were admitted at undergraduate level through UPCATET. The course curriculum adopted by teaching was as per IV Dean's Committee of ICAR. During 2016-17, 2017-18, 2018-19 and 2019-20, Out of intake capacity 08, 39, 30 and 22 students registered in B.Tech (D.T.) programme respectively. Out of 42 admitted only 36 could continue their undergraduate degree programme. Out of these 24 students, secured admission in M.Tech. (D.T.) and 12 students got job in Amul, PCDF, VRS Food Ltdm., Parag, Madhusudan, Miss Milk, Private Ltd, Gyan Dairy, Banas Dairy.

6.4.2. Faculty Strength

The faculty strength of the Degree Programme need to be given cadre-wise, both sanctioned and in-place (under the table mentioned below). Clearly mention the number of permanent faculty appointed for the Degree Programme, part time faculty being deputed from the other departments (in such case mention the name of these departments). If the Degree Programme is also taking the help of Research staff, extension staff, contractual faculty, guest faculty, adjunct faculty or any other arrangement being made to complete the curriculum, it should be clearly mentioned in the report.

The Faculty strength is given below:

Table :1 Sanctioned post for college of Dairy Technology

S.N.	Post	No. of sanctioned Posts	In position	Vacant	Faculty Recommended by ICAR
1.	Dean	1		1	1
2.	Professor	3	02	3	3
3.	Associate Professor	6	02	6	6
4.	Assistant Professor	12	02	12	12
5.	Teaching associate		04		
	Total	**22**	**-**	**22**	**22**

Note: Some recruitments against the permanent teaching positions were in the process the University, however to run the classes of dairy technology 04 guest faculty and faculty from College of Agricultural Engineering & Technology is being utilized.

Associate Faculty profile

Sl. No.	Name of teachers	Designation
1.	Dr. J.P. Yadav	Professor, Mechanical Engineering
2.	Dr. H.C. Singh	Professor, Extension education
3.	Dr. Devendra Kumar	Assoc. Prof. Processing & Food Enggineering
4.	Dr. Rajeev Singh	Associate Professor, Agri-business Management
5.	Er. Dileep Kumar	Assistant Professor, Computer Science & Engg.
6.	Er. Bhoopendra Singh Chauhan	Scientist, Dairy Engineering

Guest Faculty profile:

Sl. No.	Name of teachers	Designation
1.	Dr. Samar Jeet Singh	Teaching Associate, Dairy Technology

2.	Dr. Hari Shanker	Teaching Associate, Dairy Technology
3.	Mr. Pawan Kumar Yadav	Teaching Associate, Dairy Business Management
4.	Smt, Reena	Teaching Associate, Dairy Engineering

6.4.3. Technical and Supporting staff

The position of the technical and supporting staff of the Degree Programme including farm and field workers need to be mentioned for both sanctioned and in- place.

**The technical and supporting staff assigned the responsibilities for the multiple programmes need to be clearly marked.*
***Clearly mention the deviation in the staff position with respect to the recommendations of V Deans' Committee/VCI/BSMA/ other regulatory bodies.*
**** In case of Private Universities/affiliated colleges list of technical and supporting staff, their name, specialization, date of appointment in the college, period of contract, salary account summary for last three years with the reference to Form 16 (income tax) shall be provided.*

The strength of the technical and supporting staff is give below:

The staffs are pooled from College Agricultural Engineering & Technology located in the same campus Etawah campus of the University.

Technical and supporting staff :

S.N.	Designation	Posts sanctioned	Filled	Vacant
1.	Deputy Registrar	1	-	1
2.	Deputy Comptroller	1	-	1
3.	Security Officer	1	-	1
4.	Security Inspector	1	-	1
5.	Physical Education Suptd	1	1	-
6.	Account Officer	1	-	1
7.	Librarian	1	-	1
8.	Asstt Registrar	1	1	-
9.	Examination Assistant (Senior Assistant)	1	1	-
10.	Ward Boy	1	1	-
11.	Mid-wife	1	1*	-
12.	Sweeper	4	4*	-

6.4.4. Classrooms and Laboratories

Mention the number of class rooms and functional laboratories available for the degree programme and justify if it is sufficient to meet the course curricula requirement. Lists major equipments, laboratories, farm facilities, workshops and other instructional units being utilized for the award of the Degree Programme may be given. Mention theory and practical batches for the Degree Programme.

i) Class rooms and laboratories

The College is presently having 04 lecture halls with floor area of 450 sq. m. and 06 laboratories covering an area of 2054 sq m a computer room with all facilities is also available. A separate double storied administrative block with an area of 900 sq m is available in the college. The major equipments available are sterilizer, water bath, autoclave, centrifuge, and BOD, etc. The mechanical workshop at College of Agricultural Engg & Technology to utilized for teaching and practical purposes of Dairy Technology students. Theory and practical batches are formed as per ICAR norms.

Theory and practical batches for the degree programme

Name of the degree programme	Theory classes	Practical Classes
B.Tech (D.T.)	1 Batch	20 (A Batch) 20 (B Batch)

6.4.5. Conduct of Practical and Hands-on Training

It is important to have a sound grasp of the theory that underlies any professional degree. But there are some skills that can only be learned through hands-on -practice. It is important that much of the learning material in any given course should be provided in a way that allows students to get as involved as possible to increase their knowledge and abilities. Clearly mention how far students are getting desired practical and hands-on-training as per the curriculum and meeting above mentioned requirements.

The present curriculum adopted for B. Tech. (Dairy Technology) is as per the recommendations of the ICAR IV Deans Committee. Students are trained in the preparation of various products during Hands on Training in the seventh semester at the respective institutes followed by industrial training (In-plant training) for 5 months during seventh semester in commercial dairy plants of Uttar Pradesh.

6.4.6. Supervision of Student in PG/Ph.D. programme

Number of students being supervised by Faculty in case of Masters/PhD Programme (as per ICAR/UGC guidelines). Mention the realistic figure number of qualified faculty in relation to the intake of students, as per the guidelines in the matter.

PG/Ph.D. programme are provisioned but presently UG program (B.Tech. Dairy Technology) is only functional.

6.4.7. Feedback of stakeholder (Students, parents, industries, employers, farmers etc.)

Mention the feedback mechanism (duly supported by the documents) from different stakeholders of the degree programme. What action the University has taken in last five years to address the issues raised in the feed back?

College developed proforma provided to students every year on during final semester examination in order to record their responses to queries related to syllabus, course outlines, teaching, administrative services, lab, placement, industrial visit, training programme and other facilities provided to them. The report is then analyzed by keeping all the responses systematically and provides a cumulative assessment of the questionnaire. The summary on course/ course outline, team work opportunity/ Expert lecture and visits/ Extra curricular, teacher- student relationship / internal assessment and assignments, hostel/ Healthcare, University / Teaching appraisal, library/ computers, administration / NTS/ NSS/NCC, laboratories, Good points of teaching, difficulties, and suggestions are shared among the faculty for further referenced and follow up action.

The industrial community foresees the University as a vehicle of immense growth and productivity in the business and economic activities in Central Uttar Pradesh. They are of the view that the University can give boost to several dairy based industries. It can help set up dairy processing units, dairy product, provide employment and benefit to stake holders, provide technical know how and the like. Growth of dairy based industries in collaboration with the college will directly lead to better business, development of dairy farming, stimulus to transport industry, cold chain etc. As an educational institute, the College can refurnish the image of dairy techno-carets and encourage the local youth to join the college and gain scientific knowledge about dairy production. This youth will then be a major human resource for the dairy industries here, something which is at present lacking.

The college has been working continue since 2016 to forge close and everlasting ties with the farmers of central Uttar Pradesh region especially Kanpur division, in an endeavour to understand their concerns and provide them support in terms of training, resource and technology, and with a view of empowering them as well as fulfilling the objectives of the university.

The feed back on various problems related to agriculture sector are collected through State Dairy development deptt. as well as by organizing the field days, field visits, farmers training etc. Strong linkages have been developed with Krishi Vigyan Kendra (KVKs), Etawah, Mainpur, Firozabad and Auriya.

Strong feed back mechanisms is being implemented by the officers and faculty of Dairy Technology Department. The take up programme like ELP, student READY and National Service Scheme (NSS) under Professor of Extension has been nominated as Nodal person to look after day to day activities.

Since college is newly established all efforts and being made to have strong monitoring and feed back mechanisms for overall development of the students output and dairy sector in the country, particularly Uttar Pradesh.

6.4.8. Student intake and attrition in the programme for last five year.

Year wise information on sanctioned strength, actual intake and attrition in the last five years of the Degree Programme, in the tabular form, shall be provided.

Name of the Degree Programme	Actual student admitted in last five years					Attrition (%)				
	2015-16	2016-17	2017-18	2018-19	2019-20	2015-16	2016-17	2017-18	2018-19	2019-20
B.Tech. Dairy Technology	42	33	39	30	22	14.9	15.15	30.77	6.67	13.64

6.4.9. ICT application in Curricula Delivery

The ICT is now integral part of the teaching programme. ICAR has also been promoting the use of ICT in teaching and practical. Mention whether the Degree Programme is meeting the expectations. If there is any shortfall, it shall be clearly mentioned.

The college has developed effective physical ambience, information and communication technology, (ICT) infrastructure, quality teaching and research. These include net connectivity currently comprises to 1 Jio fibre based. Knowledge Gateway (in-house, Subscribed and Open Access Resource).Language / Grammar Check Tools, access and computing facility have also been developed in the college. The facilities like library and seminar hall, Examination hall, vedio conferencing room etc. are available to impart qualitative teaching learning and extension education to the students as per requirement.

In addition, the college has 01 smart classroom and 03 laboratories with all required facilities of undergraduate. The teaching is done with the aid of latest ICT technologies (multimedia and LCD projectors along with display boards) for enabling more interactive and participatory teaching for better grasping and learning to the students. The library has developed an integrated reading space that facilitates print and online access. It has 80+ seating capacity and the state of art e-library having computers, with LCD screens for demonstration and access to the knowledge of the information resources.

Normally the teaching is done offline in real mode in the classroom but due to COVID-19 pandemic entire institutions globally switched over to online mode of teaching virtually likewise this college also gradually switched over to online mode teaching using ICT tools like CeRA, NPTEL and using Audio, Video and interacting with students through google meet, ZOOM; etc

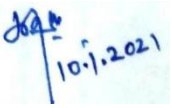
Normally the teaching is done offline in real mode in the classroom but due to COVID-19 pandemic entire institution globally switched over to online mode of teaching virtually likewise this college also gradually switched over to online mode teaching using ICT tools develop by ICAR namely Swayam, Swayam Prabha,CeRA, NPTEL and using Audio, Video and interacting with students through google meet, ZOOM; etc.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 are related to UG program at College of Dairy Technology, Etawah.

6.4.11. Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Application when SSR is submitted for Programme)

I, Professor **(Dr.) J.P. Yadav**, Dean, College of Dairy Technology, Etawah hereby certify that the information contained in the section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding University.



(J. P. Yadav)
Dean

6.5.1. College Administration

Whether Deans post has been sanctioned by the appropriate authority as per ICAR Model Act/UGC guidelines? Date of selection of present Dean, mode of selection, tenure etc. shall be mentioned. Clearly mention the staff and infrastructure/ facilities available in the Deans secretarial.

6.5.1. College Deans Office Establishment

Whether Dean's post has been sanctioned by the appropriate authority as per ICAR model Act/UGC guidelines?	Sanctioned
Date of Selection of present Dean	Presentely Dr. J. P. Yadav is working as a Dean since 24.02.2018. He has been nominated for this position by the University Administration till the further order.
Mode of selection of Dean	By the duly constituted approved selection committee having Hon'ble Vice Chancellor of the University as Chairman and at least one Member nominated by the Hon'ble Chancellor of Uttar Pradesh
Tenure of Dean	3 years with the provision of re employment for second term or till incumbent attains age of 62 years, whichever is earlier.

An administrative building is a double storied having floor area of 900 m^2 is available for, Dean Registrar office, Account office, Conference room & their staff.

Technical and supporting staff at College of Dairy technology, Etawah

Contractual staff including skilled/ semi-skilled manpower has been engaged following standard procedures by the university. Need based skilled/ semi-skilled man power; security guard is hired through the approved contractor as per rules and regulations of the Central / State Government.

All staff College of Agriculture Engineering and Technology, Etawah associated with College of Dairy Technology, Etawah to perform day to day actives.

6.5.1.2 Monitoring Mechanism for Quality Education (on-line)

Whether the College is having an internal quality assurance system, with appropriate structure and processes, and with enough flexibility to meet the diverse needs of the stakeholders which is required for planning, guiding and monitoring quality assurance and quality enhancement activities of the Colleges. How effectively monitoring of teaching, research and extension across the departments is being conducted, and mention the impact of monitoring on the outcome of the College with reference to students' excelling in academics, research and extracurricular activities.

Monitoring mechanisms for quality education:

For the growth of any country, quality teaching is very essential part in college. We have a main focus to ensures the steady improvement of teaching quality and meet the basic required standards of sustainable development and improve the abilities, which adapt to the market demands, which will promote rational use of the college educational resources and continuously raise and improve the quality of personnel training and form the system of teaching quality which is an effective and continuous improvement.

Monitoring mechanism has been developed to identify periodically the bottlenecks in implementing the programme and to take the remedial measures to improve the effectiveness of the plan. The college internal quality assessment assurance system includes:

1. Strictly following Academic calendar and is made available to all students and faculty members well before the commencement of the academic session.
2. Following course curriculum as per ICAR V Dean's committee recommendation for undergraduate.
3. Frequent visits of Dean /coordinator in classrooms and laboratories to monitor quality of instructions and methods of delivery.
4. External evaluation system of final theory examination of UG is in place
5. Timely conduction of mid-term and end-term examination and evaluation.
6. 80% presence in individual course is essential to appear in final examination.
7. Periodic academic progress monitoring is in place by the Dean of the college.
8. The college teaching of Extension, Agriculture technologies dissemination is being done through extension bulletins, pamphlets, radio and TV talks etc.
9. Close Circuit TV (CCTV) have been fixed at administrative building.

6.5.1.3 CC/Board of Studies

Whether the CC in the Department level and Board of Studies at the College is in place? The composition of the BoS and date of conduct of meetings for last five years and major recommendations made by the BoS should be given in tabular form.

The Faculty has its Board of Studies called Faculty Board. The Faculty Board is constituted of the Dean as Chairman, Heads of Departments, Professors, Associate Professors and Assistant Professors of the subjects taught in the Faculty. The Board of the Faculty has the powers subject to the jurisdictions of the Academic Council mentioned elsewhere, to have jurisdiction in all matters falling within the scope of its programmes, to determine its curricula, to appoint its own committees and to elect its own Secretary. Number of meeting of Board of faculty organized during the period has been summarized below-

Members of Board of Studies

1.	Dr. J.P. Yadav, Dean CAET and coordinator College of FS&RC, Etawah	Chairman
2.	Dr. H.C. Singh,	Member
3.	Dr. Rajeev Singh	Member
4.	Dr. Samar Jeet Singh	Member

6.5.1.4 Anti Ragging Cell

In pursuance to the Judgment of the Hon'ble Supreme Court of India dated 08.05.2009 in Civil Appeal No. 887/2009, the University Grants Commission has framed "UGC Regulations on curbing the menace of ragging in higher educational institutions, 2009" which have been notified on 4th July, 2009 in the Gazette of India. Does the College follow this regulation and subsequent guidelines issued in the matter in letter and spirit? Give details.

Anti ragging cell/committee is working under the chairmanship of Dr. J.P. Yadav, Dean CAET and Coordinator College of FS&RC, Etawah. The contact information of the committee members is displayed in the campus for easy excess of fresher's Anti raging message, Govt. guidelines and slogans also depicted at various places of the college and campus premises. List of anti ragging committee members with their mob. Number.

Anti Ragging Committee

SN	Name & Designation	Position held	Contact No.
1.	Dr. J.P. Yadav, Dean /Coordinator	Chairman	9411241616
2.	Dr. H.C. Singh, Professor	Member	9412520177
3.	Dr. N.K. Sharma, Assoc. Professor	Member	9411869189
4.	Dr. Devendra Kumar, Assoc. Professor	Member	9411613271
5.	Er. M.A. Hussain, Asstt. Professor	Member	9412653786

6.	Er. Dileep Kumar Verma, Asstt. Professor	Member	9452813833
7.	Er. Subhash Chandra Yadav, Asstt. Workshop Supttd.	Member	9412408696
8.	Dr. Devendra Singh, Assoc. Prof.	Member/Secretary	7579564388

(A) Anti-Ragging Squad

SN	Name & Designation	Position held	Contact No.
1.	Dr. H.C. Singh, Professor	Member	9412520177
2.	Dr. N.K. Sharma, Assoc. Professor	Member	9411869189
3.	Dr. Devendra Kumar, Assoc. Professor	Member	9411613271
4.	Er. M.A. Hussain, Asstt. Professor	Member	9412653786
5.	Er. Dileep Kumar Verma, Asstt. Professor	Member	9452813833

6.5.1.5 Biological waste disposal facility

Whether wastes (chemical, biological, radioactive, universal, and recyclable) are generated by a variety of research, clinical, service, maintenance, and cleaning operations at the College level? If yes, then mention the disposal mechanism being adopted as per the government guidelines.

Biological waste is collected by municipal authorities and accordingly disposed off as per norms of Govt.

6.5.1.6 Institutional Ethics Committee for Experiment on animals:

Whether the institute/College is following CPCSEA guidelines and constituted an Institutional Animal Ethics Committee (IAEC), get their animals house facilities inspected and get their project cleared by CPCSEA and IAEC before commencing them? The College should make statement that it is adhering all guidelines in the matter

Research and commercial practices on dairy is considered as per norms and standards guidelines by Govt. of India.

6.5.1.7 Committee for Prevention of Sexual harassment of Woman at Work Places:

Does the institution is adhering the sexual harassment of women at workplace (Prevention, Prohibition and Redressal Act, 2013) in letter and spirit. Mention the constitution of sexual harassment committees and date of proceedings conducted in last five years in tabular form.

As per university Grant Commission Regulation 2015 on "Prevention prohibition and Redressal of Sexual harassment of women employee and students", the committee for prevention of sexual harassment of women at work places is constituted at university level as follows

Committee for Prevention of Sexual harassment of Woman at Work Places :

S.No	Name & Designation	Position held
1.	Dr. Neelma Kunwar, Professor, ECM College of Home Science, CSAUAT, Kanpur	Chairman
2.	Dr. (Mrs.) Mithilesh Verma, Assoc. Professor, College of Home Science	Member
3.	Dr. Asha Yadav, Officer In-charge, ATIC, Kanpur	Member
4.	Dr. Seema Sonkar, Associate Prof. Food& Nutrition	Member
5	Dr. Nalini Tiwari, Asstt. Prof., GPB	Member
4.	Dr. Shweta Yadav, Assistant Professor, GPB	Member/ Secretary

6.5.2. Faculty

6.5.2.1. Faculty Strength

Mention the Faculty position (both in sanctioned and in-position) at the College

S.N.	Post	No. of sanctioned Posts	In position	Vacant	Faculty Recommended by ICAR
1.	Dean	1		1	1
2.	Professor	3	02	3	3
3.	Associate Professor	6	02	6	6
4.	Assistant Professor	12	02	12	12
5.	Teaching associate		04		
	Total	**22**	**-**	**22**	**22**

Some recruitments against the permanent teaching positions were in process by the University, however to run the classes of dairy technology 04 guest faculty and faculty from College of Agricultural Engineering & Technology is being utilized in the following disciplines viz.

6.5.2.2. Faculty Profile (Department wise)

College of Agricultural Engineering & Technology, Etawah possessed 5 departments

1. Dairy Business Management
2. Dairy Chemistry

3. Dairy Engineering
4. Dairy Microbiology
5. Dairy Technology

Currently only undergraduate programme is running. Therefore, department wise constitution of the college is not in functioning.

Faculty profile

Sl. No.	Name of teachers	Designation
1.	Dr. J.P. Yadav	Professor, Mechanical Engineering
2.	Dr. H.C. Singh	Professor, Extension education
3.	Dr.. Devendra Kumar	Assoc. Prof. Processing & Food Enggineering
4.	Dr. Rajeev Singh	Associate Professor, Agri-business Management
5.	Er. Dileep Kumar	Assistant Professor, Computer Science & Engg.
6.	Er. Bhoopendre Singh Chauhan	Scientists, Dairy Engineering Scientist

Guest Faculty profile:

Sl. No.	Name of teachers	Designation
1.	Dr. Samar Jeet Singh	Teaching Associate, Dairy Technology
2.	Dr. Hari Shanker	Teaching Associate, Dairy Technology
3.	Mr. Pawan Kumar Yadav	Teaching Associate, Dairy Business Management
4.	Smt, Reena	Teaching Associate, Dairy Engineering

6.5.2.3. Credential of the Faculty

Whether the institution has employed competent faculty members qualified to accomplish the mission and goals of the institution? Give the highest qualification received by each faculty, related work experiences in the field, professional licensure and certifications, honors and awards, continuous documented excellence in teaching, or other demonstrated competencies and achievements that contribute to effective teaching and student learning outcomes.

Awards/Recognition

	Name and Designation	Award / honour/ recognition	Specialization	Name of society / agency / institute given the award
1.	Dr J P Yadav	• CV Paul Vishisht Krishi Viaganik Purushkar-2015	Mechanical Engineering	UPAAS, Lucknow
2.		• Distinguished Scientist award-2015		Venus Intern Foundation, Chennai
3.		• Eminent Scientist Award -2016		SVW Soc. LKW

4.		• UP Agricultural Scientist Award-2015-16		UPAAS, Lucknow
5.	Dr Harish Chandra Singh	Life Time Achievement Award 2019	Extension Education	Pathfinder research and training foundation, Greater Noida (UP)
6.	Dr Devendra Kumar	Fellow Award 2019	Post harvest technology and Food Engineering	Society of world envn. food &Tech, NDL

Research papers/ Awards / Seminar Symposia

Research papers published by faculty members

Dr. J.P. Yadav, Professor (Mechanical Engg.)

Year	Department	Title	Author(s)	Name of the journal	Year of publication	Vol. & Page No.
2017-18	**Mechanical Engg.**	Numerical and Experimental Investigation of Hydrogen enrichment effect on the combustion characteristics of biogas	Yadav. V.K., Yadav. J.P. and Rajan Prabhat	International Journal of Renewable Energy Research	**2018**	8 (3)
2019-20	**Mechanical Engg.**	Effect of porosity and loading height on the performance of house hold LPG gas stove	Yadav, J.P., Tevatiya, Shubham, Yadav, Vinod and Sharma, Shubham	Journal of Process Mechanical Engg	**2020**	-

Dr. H.C. Singh, Professor (Extension Education)

Year	Department	Title	Author(s)	Name of the journal	Year of publication	Vol. & Page No.
2015-16 2016-17 2017-18 2019-20	Extension Education	Role of Public and Private on-line communication service providers for transfer of agricultural technology in Western Uttar Pradesh	Prasad, H.N., Singh, H.C. and Singh, R.B.	International Journal of Progressive Research	2016	Vol. 11 (2): 216-218
		Study of availability, utilization	Prasad, H.N.,	International	2016	Vol. 8

		pattern and constraints perceived by the on-line communication users	Singh, H.C. and Singh, R.B., Sonkar, S.P., Singh, B.P. and Varma, D.K.	Journal of Progressive Research		(51): pp. 2232-2235
		Impact of on-line communication services on knowledge and adoption level of the farmers in Major Crops	Prasad, H.N., Singh, H.C. and Kumar, S., Sonkar, S.P., and Dohrey, R.K.	International Journal of Progressive Research	2017	Vol. 8 (51): pp. 2236-2241
		Study the socio-economic status of the farmers related to on-line communication services.	Prasad H.N., Singh, H.C.; Singh R.B. and Kishor, R. (2017)	Journal of Progressive Agriculture	2017	Vol. 8(2):138-142
		Study the training programme running in KVKs for farm women beneficiaries.	Prasad H.N., Singh, H.C.; Singh R.B. and Kumar, S.	Progressive Research-An International Journal	-do-	Vol. 12(Special-III): 2168-2170
		Knowledge of farmers on chikpea production technology in central plain zone of Uttar Pradesh	Rajbhar, A.K., Singh, H.C., Kumar, M. and Maurya K.	Journal of Pharmacognosy and Phystochemistry	2018	7 (4): 1889-1892
		Adoption of chikpea production technology among farmers in central plainzone of Uttar Pradesh	Rajbhar, A.K., Singh, H.C., Jha, K.K., Kumar, M. and Maurya K.	Journal of Pharmacognosy and Phystochemistry	2018	7 (4): 2250-2254
		Constraints analysis of rice cultivators trained by KVKs in central plain zone of Uttar Pradesh:	Kumar, Sunil, Singh, H.C. Rajbhar A.K., Pal Ram Vinay and Singh. R.	Journal of Pharmacognosy and photochemistry	2020	09 (2):30-32
		Study on constraints faced by the sugarcane growers in western UP (India)	Kumar Mohit, Singh, H.C. and Rajbhar Arun, K.	Plant Archives	2020	20 (1): 1885-1888
		Suggestions given by the sugarcane growers of western UP	Kumar Mohit, Singh, H.C.	International Journal of Chemical studies	2020	8(4): 272-274
		Analysis of knowledge and adoption of rice cultivators trained by KVKs in central plain zone of Uttar Pradesh, India	Kumar, Sunil, Singh, H.C. Rajbhar A.K., and Singh. R. & Pal, Ram Vinay	International Journal of Current microbiology and applied sciences	2020	9 (5):1076-1081
		Constraints face by the Gram Panchayat Members and	Pal, Ramvinay, Singh, H.C. Rajbhar A.K.,	International Journal of Current	2020	2319-7706 Vol.9

		performing their rolls in agricultural development and solution perceived by them to over come the constraints in Uttar Pradesh	and Singh Ramratan & Gupta Jyoti	microbiology and applied sciences		(10) : 2667-2671
		Level of awareness of Gram Panchayat members about Agricultural Development Programmes in Uttar Pradesh	Pal, Ramvinay, Singh, H.C. Singh, S.S. and Kumar Sunil	International Journal of Current microbiology and applied sciences	2020	2319-7706 Vol.9 (10): 2672-2675

Dr. Devendra Kumar, Assoc. Professor (Pos Harvest Process & Food Engg.)

Year	Department	Title	Author(s)	Name of the journal	Year of publication	Vol. & Page No.
2017-18	Post harvest Process and Food Engg.	Study on qualitative attributes of RTS beverage of mixed fruit using bael and orange under different storage conditions.	Kumar, Devendra, Shukla, R.N. and Kumar, Sanjeev	Food Science Research Journal	2018	9(I): 79-84
		Evaluation of quality attributes of Papaya Leather	Kumar, Devendra and Shukla, R.N.	Internationa l Journal of Agril Engg.,	2018	11 (I):84-89
		Studies on colour kinetics and textural characteristics of sugar and jaggery based papaya leather	Kumar, Devendra and Shukla, R.N.	Food Science Research Journal	2018	9(2):428-434
2018-19		Study of physico chemical characteristics of cauliflower slices at different pretreatment and drying condition	Verma, Vipin , Kumar and Kumar, Devendra	ational Journal of Agricultural Engineering	2019	12(2):243-252
		Study of qualitative attributes of mixed juice using carrot, spinach and beetroot	Singh, Rupendra & Kumar Devendra	Food Science Research Journal	2019	10(2):176-180
		Development and quality evaluation of carrot and orange blend juice	Kumar, Jeetendra and Kumar Devendra	International Journal of Processing & Post Harvest Technology,	2019	10 (2):28-34

Er. B.S. Chauhan, Scientist (Dairy Engg.)

Year	Department	Title	Author(s)	Name of the journal	Year of publication	& Page No.
2016-2017		Extent of farmer's knowledge about agricultural implements in etawah	vinod prakash, Sadhana vais, Sunita mishra	*Asian J Multidimensional research*	**2017**	Vol 6, Issue 1 25-28
		Participation Of Rural Women In Agriculture And Livestock Sector In Etawah District	Vinod prakash ,Adity kumar , Sunita mishra, **Bhupendra singh chauhan**	An Int. Multidisciplinary Research Journal	**2017**	Vol 7,Issue 2, 30-34
		Constraints Perceived By Gender Regarding Participation In Rural Development	Sunita mishra, Sadhana vais , Vinod Prakash ,**B.S. Chauhan**	An Int. Multidisciplinary Research Journal	**2017**	Vol 7,Issue 2, 6-9

Dr. Samarjeet Singh, Guest Faculty (Dairy Technology)

Year	Department	Title	Author(s)	Name of the journal	Year of publication	Vol. & Page No.
2015-16	**Dairy Technology**	Nutritional study of simmering and concentration methods based nutritional product.	**Samar Jeet Singh**, Anoop Singh Chauhan, M.P.S. Yadav, P. K. Upadhyay, & M. P. Singh	*Journal of Research for Environment and. Life Sciences*	**2015**	*Vol*. 19, No. 1, 91-94.
		Suitability of Replacement of Whole Buffalo Milk By Soy Milk For Curd Making. (Chemical Quality)	Hari Shanker, **Samar Jeet Singh**, Ved Prakash, Sohan Lal Verma and Mani Nath Pandey	*J. Exp. Zool. India Vol*. 19,,	**2016**	*Vol*. 19, No. 1, pp 483-485
		Technology of Chhana production from buffalo milk using herbal coagulants (sensory & microbial evaluation)	**Samar Jeet Singh**, Hari Shanker, Viresh Bhadauriya, Ved Prakash, R B Singh	*Journal of Experimental Zoology, India*	**2016**	*Vol*. 19 No.1 pp 491-493
		Technology of Chhana production from buffalo milk using herbal coagulants (Chemical Quality).	**Samar Jeet Singh**, Hari Shanker, Viresh Bhadauriya, Ved Prakash, R B Singh	*Journal of Experimental Zoology, India*	**2016**	Vol.19 No.1 pp 479-481

		Analysis of Cow Milk Chhana Spread on the basis of Sensory Attributes. . *Journal of Experimental Zoology, India*	Nishu Yadav, S.P. tyagi, M.P.S. Yadav, **Samar Jeet Singh**, and M.S. Khandelwal	*Journal of Experimental Zoology, India*	**2016**	Supplement 1, pp 1427-1430
2017-2018		Overall acceptability score of Paneer P.Pred cow milk using herbal coagulants.	**Samar Jeet Singh**, Hari Shanker, and PK Upadhyay	*Environment Sc. & Tech,*	**2018**	Vol.6 (1):2018 pp.- 71-7
		Studies on preparation of Paneer from cow milk using herbal coagulants and its chemical quality (Standard plate count) riming Area,	**Samar Jeet Singh**, Pankaj Dwivedi and Hari Shanker	*International Research Journal,*	**2018**	Vol. 38, 3 pp.- 029
		Fat Content of Dahi prepared with Buffalo and Soy milk, its Suitability	Hari Shanker, **Samar Jeet Singh** (2018)	*G- J. Environment Sci. & Tech*	**2018**	Vol. 5 (6):2018 pp.- 65-67
		Lactose Content of Dahi prepared with Buffalo and Soy milk, its *Suitability*	Hari Shanker, **Samar Jeet Singh**	*G-J, Environment Sci. & Tech,*	**2018**	Vol. 5 (6):2018 pp.- 68-70
		Protein Content of Dahi prepared with Buffalo and Soy milk, its Suitability.	Hari Shanker, **Samar Jeet Singh**	*G - J . En vi ro nm e nt S c i. & T e c h.*	**2018**	Vol. 20 18 p p. - 75 -7 7
		Suitability of Replacement of Whole Buffalo Milk By Soy Milk For Dahi Making.(Colour & Appearance)	Hari Shanker, Pankaj Dwivedi, **Samar Jeet Singh**	*V l d y a w a r t a I s s u e* 2 1	**2018**	V o l . 0 9 , p p . - 3 7 - 3 8
2019-20		Effect of subclinical mastitis in compositional change in milk and blood parameter of crossbred dairy cow	Aman Rathaur, Ved Prakash, Pankaj Kumar Gupta, **Samar Jeet Singh** and Vinod Bhateshwar	*IJCS* 2020; SP-	**2020**	Vol. 8(2): 10-12

Dr. Hari Shankar, Guest Faculty (Dairy Technology)

Year	Department	Title	Author(s)	Name of the journal	Year of publication	Vol. & Page No.
2015-16	**Dairy Technology**	Suitability of Replacement of Whole Buffalo Milk By Soy Milk For Curd Making. (Chemical Quality)	Hari Shanker, **Samar Jeet Singh**, Ved Prakash, Sohan Lal Verma and Mani Nath	*J. Exp. Zool. India* *Vol*. 19,,	**2016**	*Vol*. 19, No. 1, pp 483-485

			Pandey			
		Technology of Chhana production from buffalo milk using herbal coagulants (sensory & microbial evaluation)	Samar Jeet Singh, **Hari Shanker,** Viresh Bhadauriya, Ved Prakash, R B Singh	*Journal of Experimental Zoology, India*	**2016**	*Vol*. No.1 pp 491-493
2016-17		Technology of Chhana production from buffalo milk using herbal coagulants (Chemical Quality).	Samar Jeet Singh, **Hari Shanker,** Viresh Bhadauriya, Ved Prakash, R B Singh	*Journal of Experimental Zoology, India*	**2017**	Vol.19 No.1 pp 479-481
2017-2018		Overall acceptability score of Paneer P.Pred cow milk using herbal coagulants.	Samar Jeet Singh, **Hari Shanker,** and PK Upadhyay	Environment Sc. & Tech,	**2018**	Vol. 6 (1):2018 pp.-71-7
		Studies on preparation of Paneer from cow milk using herbal coagulants and its chemical quality (Standard plate count) riming Area,	Samar Jeet Singh, Pankaj Dwivedi and **Hari Shanker**	International Research Journal,	**2018**	vol. 3803 pp.-029
		Fat Content of Dahi prepared with Buffalo and Soy milk, its Suitability	**Hari Shanker**, Samar Jeet Singh (2018)	G- J. Environment Sci. & Tech	**2018**	Vol.5 (6):2018 pp.-65-67
		Lactose Content of Dahi prepared with Buffalo and Soy milk, its *Suitability*	**Hari Shanker,** Samar Jeet Singh	G-J, Environment Sci. & Tech,	**2018**	Vol.5 (6):2018 pp.-68-70
		Protein Content of Dahi prepared with Buffalo and Soy milk, its Suitability.	**Hari Shanker,** Samar Jeet Singh	G - J . Environment Sci. & Tech.	**2018**	Vol.2018 p p. - 75 -7 7
2019-20		Suitability of Replacement of Whole Buffalo Milk By Soy Milk For Dahi Making.(Colour & Appearance)	**Hari Shanker**, Pankaj Dwivedi, Samar Jeet Singh	V l d y a w a r t a I s s u e 2 1	**2020**	V o l . 0 9 , p p . - 3 7 - 3 8

National Seminar/ Conference/ Symposia / Workshop attended

Name & Designation	Discipline	Date	Venue	Name of the conference
Dr. J.P. Yadav,	Mechanical Engg.	19.12.2015	Chennai	Research Meet of Technologist, Scientist and Research to Products contineum in

Professor				technoforum
		13.02.2016 to 14.02.2016	Dr. B.R.A. CAET, Etawah	National Seminar on Biodiversity and Renewable energy (BARE 2016)
		02.03.2016 to 04.03.2016	CSAU&T Kanpur	4th Uttar Pradesh Agril. Science Conference 2016 on strategic governance and Technological advancement for sustainable agriculture
Dr. H.C. Singh, Professor	Extension Education	13.02.2016 to 14.02.2016	Dr. B.R.A. CAET, Etawah	National Seminar on Biodiversity and Renewable energy (BARE 2016)
		02.03.2016 to 04.03.2016	CSAU&T Kanpur	4th Uttar Pradesh Agril. Science Conference 2016 on strategic governance and Technological advancement for sustainable agriculture
		Dec. 12-13, 2017	CSAUA&T, Kanpur	National Conference on organic farming for sustainable Agriculture and livelihood security under changing climatic conditions
		18-19 January, 2017	Janta College Bakewar	Conference on Intellectual Property Right: A Boon for Sustainable Production
		18-19 March 2017	Janta College Bakewar	National Seminar on Recent trends and future prospects in sustainable Agric. with Reference to climate change
		24-25 March 2017	CSAUA&T, Kanpur	National Conference on Farmers' Centric Agri-innovation for sustainable development
		14-17 Feb. 2018	CSAUA&T, Kanpur	International Conference on Sustainability of smallholder Agriculture in developing Countries under changing climatic scenario
		26 Aug. to 09 Sept. 2019	Govt. fruit preservation centre Etawah	Training on Processing and Preservation of Fruits and vegetables
		28-29 Nov. 2019	CSAUA&T, Kanpur	Sensitization workshop on "NAHEP Component-2 activities and implementation of academics management system (AMS)
		22-25 Feb 2020	St. Johns College Agra	National conference on "Recent trends in new frontiers in bio-technology, Agriculture, Science and Environment
Dr. Devendra Singh, Professor,	Chemistry	Govt. Fruits preservation and Training Centre Etawah	07.08.2016 to 21.08.16	Fifteen Days training on Fruits and Vegetables processing and preservation
		Dr. B.R.A. CAET, Etawah	13.02.2016 to 14.02.2016	National Seminar on Biodiversity and Renewable energy (BARE 2016)
		CSAUA&T,	14-17 Feb.	International Conference on Sustainability of

		Kanpur	2018	smallholder Agriculture in developing Countries under changing climatic scenario
		Govt. fruit preservation centre Etawah	06-20 Aug. 2018	Training on Processing and Preservation of Fruits and vegetables
		University of Rajasthan, Jaipur	21-22 Dec. 2018	International Conference on frontiers at the chemistry-Allied sciences interface
		Govt. fruit preservation centre Etawah	26 Aug. to 09 Sept. 2019	Training on Processing and Preservation of Fruits and vegetables
Dr. Devendra Kumar, Associate Professor	Post Harvest Process & Food Engg.	Govt. Fruits preservation and Training Centre Etawah	07.08.2016 to 21.08.16	Fifteen Days training on Fruits and Vegetables processing and preservation
		Dr. B.R.A. CAET, Etawah	13.02.2016 to 14.02.2016	National Seminar on Biodiversity and Renewable energy (BARE 2016)
		CSAUA&T, Kanpur	Dec. 12-13, 2017	National Conference on organic farming for suustainable Agriculture and livelihood security under changing climatic conditions
		CSAUA&T, Kanpur	24-25 March 2017	National Conference on Farmers' Centric Agri-innovation for sustainable development
		SHAUTS, Allahabad	29 March 2017	International Workshop on "Sustainable agricultural mechanization: Prospects and Challenges for India Agriculture"
		CSAUA&T, Kanpur	14-17 Feb. 2018	International Conference on Sustainability of smallholder Agriculture in developing Countries under changing climatic scenario
		Govt. fruit preservation centre Etawah	06-20 Aug. 2018	Training on Processing and Preservation of Fruits and vegetables
		Govt. fruit preservation centre Etawah	26 Aug. to 09 Sept. 2019	Training on Processing and Preservation of Fruits and vegetables
		CSAUA& T, Kanpur	28-29 Nov. 2019	Sensitization workshop on "NAHEP Component-2 activities and implementation of academics management system (AMS)
		Internation al Buddhist Research Institute Lucknow	7-8 Feb. 2020	2nd National Conference on " Technological and emerging aspects in agricultural and community science
		St. Johns College Agra	22-25 Feb 2020	National conference on "Recent trends in new frontiers in bio-technology, Agriculture, Science and Environment
Dr. Rajeev	Agri-	Dr. B.R.A.	13.02.2016	National Seminar on Biodiversity and

Singh, Associate Professor	business Management	CAET, Etawah	to 14.02.2016	Renewable energy (BARE 2016)
		CSAU&T Kanpur	02.03.2016 to 04.03.2016	4th Uttar Pradesh Agril. Science Conference 2016 on strategic governance and Technological advancement for sustainable agriculture
		CSAUA& T, Kanpur	Dec. 12-13, 2017	National Conference on organic farming for suustainable Agriculture and livelihood security under changing climatic conditions
		Dr BRA University Lucknow	24.03.2017	National Seminar on "Professional Development of Teachers"
		25-26 March 2017	Dr BRA University Lucknow	National Seminar on "Role of social media in society transformation, issues and challenges"
		28-29 Nov. 2019	CSAUA& T, Kanpur	Sensitization workshop on "NAHEP Component-2 activities and implementation of academics management system (AMS)
Er. Dileep Verma Asstt. Prof.	C S	Dr. B.R.A. CAET, Etawah	13.02.2016 to 14.02.2016	National Seminar on Biodiversity and Renewable energy (BARE 2016)
		Govt. fruit preservation centre Etawah	26 Aug. to 09 Sept. 2019	Training on Processing and Preservation of Fruits and vegetables

6.5.2.4. Technical and Supporting Staff

Whether the College has appointed (in place) sufficient technical/laboratory/farm staff to cater the need of practical and field experiments. Mention department wise distribution of technical, supporting and field staff in the tabular form.

The staff are pooled from College of Agricultural Engineering & Technology located in the same campus, Etawah of the University

6.5.3. Learning Resources

Learning resources are texts, videos, software, and other ICT enabled materials that teachers use to assist students to meet the expectations for learning defined by ICAR recommended curricula. Information on the following shall be submitted.

There is a well documented library with latest books, Journals, Encyclopedias, E-library, reference manual and current affairs magazines. Teachers have delivered

and shared lecture notes (text and PowerPoint).Technology enabled learning resources have been embedded in imparting quality education in the college. The main aim of technology- enabled learning is to emphasize the accessibility to quality teaching and learning with the help of the innovative application of information and communication technology (ICTs). Development and implementation of the ICT and techniques in education and open educational resources (OER) policies to strengthen policy implementation to encourage the use of open source technologies and OER for skills development; assisting innovative researches on technology enabled learning for evidence based advocacy and decision making; support to use technology enabled learning for evidence based advocacy and decision making, and promoting to use of technology enabled learning for the extension programme delivery.

With the initiation of online classes, blended learning system, and the overall rise of technologies in the classrooms, students have opportunities to access more knowledge information than past. Technology enabled learning assisted in capacity building of teachers in the field of higher education to support the modernization, accessibility and internationalization of higher education.

6.5.3.1. College Library (Digital)

Mention the information about location of the library, present staff position (in place) and availability of Wi-Fi, sufficient books and other reading materials, periodicals and research journals, internet with sufficient number of computers, seating capacity, employing the latest technology in library sciences, stocking arrangements, collection of volumes on different subjects, latest publications in the fields of relevant subjects, automation and user services through computer, opening hours, subscription of journals of national and international repute, national dailies, magazines etc.

The college of Dairy Technology, Etawah was established in 2006. The area of the library is 500 sq m. The physical infrastructure of the library is sufficient to fulfill the need of UG Program at the college of Dairy Technology. There are 449 titles of books of Dairy Technology and allied subjects. The students of dairy technology availing the facilities of the library from the College of Agricultural Engineering & Technology, Etawah

Facility in Library

Sl.	Faculty	Particular	Quantity

No.			
1.	Wifi	Number of connections	153
		Number of routers	-
2.	Books	All text in form	6234
3.	News Paper / National Dailies	English: Times of India, Hindustan Times Hindi: Dainik Jagran, Amar Ujala	05
4.	Periodicals / Magazines	Fertilizer News, Indian Farming, Kheti, Agriculture Today, Krishi Jeevan, Agri Life	05
5.	Seating Capacity	Reading tables along with chairs are provided	80
6.	Stocking arrangements	The stocking of library is arranged subject wise for easy accessibility	04
8.	Opening hours	The office working hours are as such available for students as well as faculty for accessing library.	09.00-22 hrs.

6.5.3.2. Laboratories, Instructional farm, workshop Dairy Plant, Veterinary Clinic, Hatchery Ponds etc.

Clearly mention about laboratories, instructional farm, workshops, dairy plant, veterinary clinic, hatchery, ponds etc facilities available in the College with its numbers, space, specialty to conduct practical/hands on training.

Sl. No.	Particulars	Facilities/ Equipments
A. Laboratories		
1.	College of Dairy Technology,	• In the College of Dairy Technology college the facilities like testing of milk pH, acidity, fat and Solid Fat are available in dairy chemistry lab. Likewise in dairy microbiology lab testing facility of Methyline Blue Reduction test (MBR) is also available. In diary processing the products like *chhena, khoa, paneer, ghee, rasgulla*, condensed milk, flavored milk, can be processed as facilities are available. • Instructional farm, dairy plant, veterinary clinic, hatchery ponds are not available in the College of Dairy Technology. • At present the workshop building at the College of Agricultural Engineering is utilized by the students of College of Dairy Technology.

6.5.3.3. Students READY/ IN-plant training/Internship/ experiential learning programme

Clearly mention about the implementation of Student READY/ In-plant training/ Internship/ Experiential Learning programmes and learning outcomes as per the guidelines of ICAR. Profit sharing mechanism (amount) shall be mentioned for each ELP unit sanctioned by the ICAR for the college.

The in plant training & experiential learning programme of 10 weeks duration of each in the semester are provisioned subject to grant made available by ICAR for E.L.P. For in-plant training, the expenses are born by the students under the supervision of Head / In-charge training & placement.

In plant training/ Agro-Industrial Attachment

To enrich the practical knowledge of the students, in-plant training is important part of the ELP. In this training, students had study a problem in industrial perspective and submitted the reports to the university. Such in-plant trainings were providing an industrial exposure to the students as well as to develop their career in the high tech industrial requirements.

During In plant training/Agro-Industrial attachment students engaged in several activities like,

- Familiarize with the Industrial environment.
- They learned about different mechanism of industrial working system.
- They understand the scope, functions and job responsibility-ties in various departments of an organization.
- They get an idea or aspects of entrepreneurship during the program period.
- They attached with Farm machinery & power, Post harvest and process, Micro irrigation, etc. industries to get first-hand information about different machineries, equipment, implement etc. and their production system to establish their own venture regarding Agricultural Engineering.
- However Profit sharing mechanism (amount) has not been devised by the college so for.

6.5.3.4. Curricula Delivery through IT (smart class rooms/ interactive board etc.)

Whether the College is using smart class rooms/interactive board etc. for teaching and practicals. Number of class rooms upgraded as smart class rooms should be mentioned.

ICT Application in Curricula Delivery

There is only one smart class room available which is used for teaching purposes, however more number of smart class rooms/ interactive boards are required to

impart the knowledge to students in a interactive mode and can be used in dissemination of information, knowledge during online teaching. The floor area of smart class room is 71 sq. m.. The capacity of smart class room is 60 students. Smart class room has e-podium, over-head projector with auto sliding screen. The class room has start by supply of electricity as portable Honda-generator.

Access and computing facility has also been developed in the Colleges, Library and Administrative Building to impart qualitative teaching, learning and extension education activities of the college.

6.5.4. Student Development

Student Development at the College directs its educational efforts at fostering the intellect and character of students by integrating in-class and co-curricular experiences. To accomplish this, the College provides a wide range of educational experiences through programs and activities that complement and support the academic experience in the classroom.

6.5.4.1. Students intake and attritions

The information about student intake and attrition, for the College as a whole but separated in UG, PG and PhD categories shall be provided in tabular form for last five years.

Student's intake and attritions in the programme for last five years

Name of the Degree Programme	Actual student admitted in last five years					Attrition (%)				
	2015-16	2016-17	2017-18	2018-19	2019-20	2015-16	2016-17	2017-18	2018-19	2019-20
B.Tech. Dairy. Engg.	42	33	39	30	22	14.29	15.15	28.1	6.67	13.64

6.5.4.2. Average Number of Students in Theory and Practical Classes

Mention the Degree Programme wise number of students sitting in a class for theory and practical, separately in tabular form. Complete list of academic programmes (UG and discipline wise masters and Ph.D), for which accreditation is sought, need to be provided. The list should provide only programmes in which students are already passed out.

Name of the degree programme	Theory classes	Practical Classes
B.Tech (D.T.)	1 Batch	20 (A Batch) 20 (B Batch)

6.5.4.3. Admission Process

Clearly give complete mechanism of admission for UG, PG and PhD programmes, fee payment mechanism, registration procedure, academic schedule publication at the start of the semester etc. Write information in one page only.

The admission of students is governed as per the eligibility requirement prescribed by Uttar Pradesh Combined Agricultural Entrance Test for all Bachelors degree programmes offered by the University.

The selection of candidates for admission is made in all UG programme through UPCATET entrance test conducted by Steering Committee of Uttar Pradesh on the basis of merit of marks and keeping in view the reservation policies of Government of India.

UG Admission

The total intake of students at undergraduate level is through national level competitive examination, Steering Committee of Uttar Pradesh.

Particular of examination	For undergraduate admission
Qualifying Examination	(10+2) in Agriculture/ Chemistry, Biology (PCB)/ or Physics, Chemistry, Mathematics, Biology (PCMB) as per notifications issued by UPCATET for UG programmes from time to time.
Entrance Examination	UPCATET for UG programmes

The dates of admission to a bachelors degree programme is as per the announcement made in the prospects/ academic calendar / semester calendar and notified by the Registrar of the University.

Registration consists of the following steps.

(i) Payment of the University fees and other dues and submission of no dues certificate from all concerned.

(ii) Enrolment of the students in various courses with individual instructors at a particulars place, date and time.

(iii) Depositing the prescribed registration cards/ forms, dully filled in and signed by Advisor, instructors and Dean Agriculture in consultation with

Registrar within fifteen working days of the registration. The registration cards/ forms are not accepted after the due date is over.

An orientation programme is organized in the college for the benefit of the newly admitted students immediately after the commencement of the semester. The registration of continuing students are not permitted beyond 10 working days from the scheduled date of registration in each semester unless allowed by the Vice chancellor with the late registration fee mentioned in UG academic regulation. Student is permitted to register after expiry of 15 working days from the date of registration under any circumstances.

Students are admitted to the under graduate through UPCATET (Uttar Pradesh Combined Agriculture & Technology Entrance Test) on merit basis as per State Government & ICAR norms.

Students are admitted to the under graduate programs through UPCATET (Uttar Pradesh Combined Agriculture and Technology Entrance Test) conducted by Agriculture Universities of Uttar Pradesh rotationally. Seats are allotted according to the merit of the students in UPCATET and their choice at the time of counseling adopting the reservation policy for SC/ST, OBC, UR and EWS i.e. 21%, 02%, 27%, 40% and 10% respectively. Further, horizontal reservations for freedom fighters, physically challenge, defense personal and university employees are provisioned i.e. 02%, 05%, 01% and 10% respectively. Provisions are there for admitting 15% students in Agricultural Engineering through ICAR Quota but due to non accreditation of the program ICAR quota is remaining vacant. The eligibility to crack UPCATET for UG program candidate has to be domicile of Uttar Pradesh for last 05 years or their parents should be Indian National that to belonging to Uttar Pradesh or Central Government employee (Civil or military service) / Insurance and Bankers / public sector employees and others etc. as per G.O. with conditions, serving in Uttar Pradesh are also eligible, likewise NRIs as per norms. The admissible minimum age for UG program is 17 years but age relaxation for SC/ST/OBC of physically challenges candidates are as per state government guidelines/GOs.

6.5.4.4. Conduct of Practical and hands on Training.

Mention the brief report on how the practical and hand-on-training is being conducted in different courses to meet the student satisfaction. Write information in one page only.

Practical for all required courses are conducted in the laboratories as per the requirements of the degree. While conducting the practical, first the students are instructed about the procedures and practices they have to follow, while starting the exercise. The students are guided for hands on practice for doing the practical exercise at his/ her to build up confidence for independent exercises. The purpose of students learning and exposure. Practicals are conducted in laboratory and hands on training is completed at various dairy plants in inter and intra states.

6.5.4.5. Examination and Evaluation process

The evaluation of students' performance is a central task of College administration. A brief report on examination and evaluation process for UG, PG and PhD be given separately mentioning external/internal components. System of evaluation should clearly be mentioned for UG, PG and PhD.

The examination system has combination of 50% internal and 50% external components. The weightage to theory and practical classes to be in the same proportion as theory and practical credits allotted to different courses. Total marks obtained for a course for practical and theory examination added and converted into percentage for working out the grade point. Keeping this in view, the schedule and weight age to different examinations as follows:

Sl. No.	Particulars	Course Credit		
		Theory	Practical	Total
1.	Mid-term exam	30		30
2.	End Term Examination	50	20	70
3.	Maximum Marks	80	20	100

Question Pattern

For theory examination (both mid-term and end-term examinations), the question paper consists of 40%objective, 30% short answer type and 30% descriptive (long answer type) questions.

Question Setting

(i) The internal examiner, for the mid-term theory examination, submits two sets of questions covering 50% of the syllabus of the course at least 5 days before the commencement of examination to the Dean through the Head of the Department.

(ii) The external question paper setter submits two independent sets of question papers for the end erm theory examination covering the full course as per the syllabus at least 30 days before the commencement of the examination.

Grade Point

Ten point grading system being adopted with minimum Grade Point Average (GPA) of 5.00 for passing a subject and overall Grade Point Average (OGPA) of 6.00 for obtaining a degree.

Marks secured by students in a course in theory and practical are multiplied by number of theory credit(s) and practical credit(s) of the course respectively and added together. This sum then is divided by the total credits (Theory + Practical) of the said course to get percentage of marks, which is divided by 10 to obtain Grade Point (GP). Time and date for Quiz (continuous evaluation) are fixed by the course instructor during the regular class of the course, except one unannounced quiz. The mid-term theory, end term theory and practical examination are fixed by the Dean/ Registrar.

The duration of Examination is as follows:

i. Mid Term theory Examination - 1.00 Hours

ii. End Term theory Examination - 2.30 Hours

iii. End Term Practical Examination - 3.00 hours

Evaluation Process

The answer books of the mid-term examination are evaluated by the course teacher (internal examiner) and marks obtained arethen sent to the Dean of the College through the Head of the Department within 15 days of conduct of the examination. The answer books of the quizzes and mid-term examination are shown to the students, who return the same to the course teacher after signing. The answer books of the end-term theory examination are evaluated by the external examiners after the final practical examinations. The external examiners submit the answer books after evaluation to the Dean's Office along with the mark list of both theory and practical examinations. External Examiner ensures that all the answers in the answer book are evaluated and the allotted marks are counted. The answer books of both end-term theory and practical examinations are not be returned to the students and preserved by the Dean for one year from the date of declaration of the results.

- The students who have been offered a prescribed number of courses in each semester are evaluated for 100 marks, including 50% internal, 50 % external but in the courses where there is no practical's classes internal marks are evaluated out of 40 marks (mid-term) and assignment of 10 marks, remaining 50% marks are automatically allotted for external examination
- The total marks obtained in each course are converted to grade point on a 10-point scale and the grade point average for all the courses are computed for each semester.
- A student is eligible to obtain his degree if gets a minimum Overall Grade Point Average (OGPA) of 5.5 out of 10.

➢ The students who have been offered a prescribed number of courses in each semester are evaluated for 100 marks, including 50% internal, 50 % external but in the courses where there is no practicals classes internal marks are evaluated out of 40 marks (mid term) and assignment of 10 marks, remaining 50% marks are automatically allotted for external examination

➢ The total marks obtained in each course are converted to grade point on a 10-point scale and the grade point average for all the courses are computed for each semester.

➢ A student is eligible to obtain his degree if gets a minimum Overall Grade Point Average (OGPA) of 5.5 out of 10.

6.5.4.6. NCC/NSS/RVC Units

Clearly mention the existence and functioning of these units and how it is benefiting the student development. A brief report should be given (without photographs).

NSS unit is active at the college level under the supervision of program officer appointed by the University.

6.5.4.7. Language Laboratory

It is required of any student to have a good command of the language for communication purposes, with clarity and accuracy being vital for effective and efficient communication. What helps one to acquire such proficiency in a language is the process and the method of learning that language. Mention which of these type of Conventional, Lingua Phone, Computer Assisted Language Laboratory and Multimedia Hi-Tech Language Laboratory are being used for language teaching in the college.

There is centralized language laboratory utilized by the students of college of Dairy Technology in the College of Agril Engg. & Technology in the same campus.

6.5.4.8. Cultural Centre

Does the college has cultural center to empower student leaders to explore, celebrate, and educate the campus community about the diversity among them? Does the college offers an inclusive and reflective space, multicultural programming, and support services that encourage positive interaction, academic persistence, and growth among students, faculty, and staff ?

Centralized Cultural Centre is available in the campus.

6.4.5.9. Personality Development

Personality development programme is aimed at increasing employability of the students. Whether the college has provisions for inclusion of functional grammar in Standard English, speaking skills, reasoning, group discussions interview skills, personal interviews, quantitative ability, verbal ability, mock tests and some special sessions to promote the personality development in the students?

There is provision in the syllabus itself like general proficiency which covers all aspect like spoken English, grammar, speaking skilled etc. In addition to this time to time quiz, debate on emerging topics, drama and cultural activities are also organized to improve the personality of the students.

6.5.5. Physical Facilities

6.5.5.1. Hostels

Clearly mention the number of hostels available for the College students for boys and girls, separately with its total capacity, students per room accommodated in each hostel, mess facility, drinking water, indoor games specially for girls, cleaning of hostel premises, transport facility, emergency medical facility etc.

The College has separate hostel for boys and girls with a total capacity of 200 single seat rooms and 40 single seated

rooms respectively in the campus. These hostels are facilitated with kitchen, kitchen store, common hall, dinning hall, staff room and visitors' room.

Dr. Kurian Hostel

6.5.5.2. Examination hall

Mention the availability of number of examination halls, its capacity etc. for the College.

As such there is no examination hall however the same class room is utilized as examination hall.

6.5.5.3. Sports and Recreation Facilities

Clearly mention the number of indoor and outdoor sports facilities available for the College students. A brief note on day to day management and use of these facilities shall be provided in the report.

Games and sports facilities are available in the college campus. Time to time inter institute competitions are also organized. Gymnasium hall is being used for indoor games. Area of gymnasium is 805.00 sq. m.

A. Indoor games (Area 35 m x 23 m)

1. Badminton – 02 courts
2. Table tennis – 02 courts
3. Gym (8 station)

B. Outdoor games / sports (Area 100m x 100 m)

1. Football- 01 set
2. Volleyball – 01 set
3. Cricket- 03 kits
4. Athletics – Disc Throw, Jabline throw, Shot-put, High jump, Hurdles (10 Nos)

6.5.5.4. Auditorium

Does the college has auditorium? Mention its year of construction, sitting capacity and how frequently being used for the College functions.

A big hall of capacity of 200 persons is available with bare minimum amenities.

6.5.5.5. Exhibition Hall /Museum

Does the college have the Exhibition Hall/Museum? Mention about its use and special events being conducted in these units.

As such there is no any Exhibition hall/museum but the models, machines developed by the students under teachers supervision is show cased in the concerned lab of the departments.

6.5.6. Research Facilities

6.5.6.1. Postgraduate Laboratories and equipment

Clearly mention the department wise PG laboratories and equipment housed in individual laboratory in the Colleges along with any other research unit.

Not yet, only possible after UG program is fully strengthened to the requirement of students.

6.5.6.2. Research Contingency

A note on amount of research contingency for each department shall be provided. Whether it meets the students' demand?

Not yet, after permanent faculty recruited and labs and workshops are established with cutting edge .equipments & machines.

6.5.7. Outcome/output

6.5.7.1. Student performance in National Examination

Provide detailed information in tabular form about student performance in JRF/ SRF/ NET/ ARS/and other national examinations for last five years. Only those students receiving fellowships should be mentioned here.

Sl.No.	Name of examinations	Academic Year	Qualified students	Remarks
1.	JRF ICAR	2019-20	01	
	GATE IIT		-	

6.5.7.2. Students placement profile

Provide detailed information in tabular form about student performance in ARS/and other national examinations/State level examinations or equivalent. Year wise placement profile shall be provided.

The first batch of B. Tech. (Dairy Technology) passed out in year 2019. More than 50% students are engaged in different industries like Pradeshik cooperative dairy federation, Amul, Parag, Gyan, Banas, Paras, Madusudan; etc and also some students are doing M.Tech. It is our main aim to equip this college to respond positively to the challenges of the future in the field of dairy, dairy products, dairy beverages, dairy research and dairy extension.

Batch	year	Total no. of passed students	Higher studies	Organization where students are placed
2015	2019	36	24	Amul, Parag, Gyan, Banas, Paras, Madusudan etc

6.5.7.3. Awards / Recognitions/Certificates:

Provide information on awards/recognitions/certificates in tabular form for last five years separately for students and faculty.

The following students achieve the various medals in the respective branch.

GOLD MEDALIST

Sr. No.	Name	ID No.	Branch	OGPA
1.	Raje Diwedi	CDT006/15	Dairy Technology	8.21

SILVER MEDALIST

Sr. No.	Name	ID No.	Branch	OGPA
1.	Babu Kumar	CDT0039/15	Dairy Technology	8.11

BRONZE MEDALIST

Sr. No.	Name	ID No.	Branch	OGPA
1.	Harsh Kumar	CDT0036/15	Dairy Technology	8.07

6.5.7.4. Employability

What are the set of achievements such as skills, understandings and personal attributes that make College students more likely to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy? Provide one page note on the subjects.

Keeping in view the employability of would be by dairy technology students the ICAR through its Vth Deans' Committee Syllabus has already provisioned the mechanism to inculcate the professionalism in the students by rigorous theory and practical knowledge by hands on training at different organization. Students are also trained by the practical knowledge in the area of Dairy Technology, Dairy Engg. and Dairy Food Processing. In addition to this the faculty from basic /agricultural science and engineering provide enough theoretical knowledge to make their base stronger for research oriented problems / solutions. The out come to may be viewed from the profile given below.

Sr. No	Student name & I.D	Email & M. No	Company Name	Designation	Photo
1.	Raj dwivedi	raj.sarhadddairy@gmail.com 9687655928	Kutch district milk producer cooperative union Ltd.(Amul)	Technical Officer/SQUAD officer	
2.	Akhilesh kumar	akhilgauranu@gmail.com 7017395199	Pradeshik cooperative Dairy federation kannauj(U P)	Process control SCADA operator	
3.	Jaipal Singh	Singhjaipal1115@gmail.com 7068517002	VRS food Ltd Malampur (MP)	Section incharge	
4.	Babu kumar	Kumarbabu327@gmail.com 8127145393	Madhusudan	Shift incharge	
5.	Ankur Trivedi	Ankurtrivedi728@gmail.com 8707029843	Parag, Noida (U.P)	Q.A	
6.	Harsh kumar	Kumarh660@gmail.com 9971076706	Parag, Noida (U.P)	Production supervisor	
7.	Mohd.Adil	Moadil9690@gmail.com 9690113752	Parag, Noida (U.P)	Production supervisor	
8.	Radhacharan	Rcyadav4545@gmail.com	Parag, Noida (U.P)	Production supervisor	

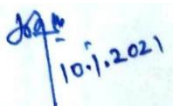
9.	Ajeet Kumar	Ajeet001518@gmail.com 7388369129	Miss Milk, Gujarat	Production	
10.	Upendra singh	Upendrayadav8@gmail.com 7060430706	Gyan dairy	Shift incharge	
11.	Indra kumar	Indrakumar2915@gmail.com 9170995346	Banas Dairy	Field supervisor	
12.	Deepak Kumar	Dkcdt0022@gmail.com	Banas Dairy	Field supervisor	

6.5.8. SSR of the College must have the SSR of all its Degree Programmes (following section 6.4), then the report of the Colleges shall be considered.

The establishment process of College of Dairy Technology, at Etawah, under Chandra Shekhar Azad University of Agriculture and Technology Kanpur started with the announcement made by Shri. Mulayam Singh Yadav Ji, the then Chief Minister of Uttar Pradesh on dated 14.01.2006 keeping in view the vast potential of dairy in the nearby districts of Etawah, Firozabad, Mainpuri, Kannauj and Auraiya. After the completion of necessary constructional work, the College of Dairy, at Etawah became functional from Year, 2015.

6.5.9. Certificate (Applicable when SSR is submitted for programmes & College)

I, Dr. **J.P. Yadav**, Dean Acting, College of Dairy Technology, Etawah hereby certify that the information contained in section 6.4 and Section 6.5.1 to 6.5.7.4 are furnished as per the records available in the college and degree awarding university.



(J. P. Yadav)
Dean