



EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO, CSE, ECE, MECH), NAAC with "A+" and Recognised by UGC (2f & 12B)

KOMARAPALAYAM - 637303

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution:

Classification / Mapping of Course with their societal needs

Course code and name			Local needs	Regional Needs	National Needs	Global Needs
B.E AGRI Regulation 2017						
1.	AI8501	Irrigation and Drainage Engineering		✓	✓	✓
2.	AI8502	Farm Machinery and Equipment	✓		✓	✓
3.	AI8503	Design of Basic Machine Elements	✓	✓	✓	✓
4.	AI8504	Post Harvest Technology		✓	✓	✓
5.	AI8001	Systems Analysis and Soft Computing in Agricultural Engineering		✓	✓	✓
6.	AI8002	IT in Agricultural Systems			✓	✓
7.	AI8003	Climate change and adaptation	✓		✓	✓
8.	GE8071	Disaster Management			✓	✓
9.	GE8074	Human Rights		✓	✓	✓
10.	OCY551	Advanced Engineering Chemistry			✓	✓
11.	OCE551	Air Pollution and Control Engineering	✓		✓	✓
12.	OBT552	Basics of Bioinformatics			✓	✓
13.	OBM551	Bio Chemistry		✓	✓	✓
14.	OIT552	Cloud Computing			✓	✓
15.	OIT551	Database Management Systems			✓	✓
16.	OME551	Energy Conservation and Management		✓	✓	✓
17.	OBT553	Fundamentals of Nutrition	✓		✓	✓
18.	OCE552	Geographic Information System			✓	✓
19.	OCH551	Industrial Nanotechnology		✓	✓	✓
20.	OBT551	Introduction to Bioenergy and Biofuels			✓	✓
21.	OBT554	Principles of Food Preservation	✓		✓	✓
22.	OMF551	Product Design and Development		✓	✓	✓



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23.	ORO551	Renewable Energy Sources			✓	✓
24.	AI8511	Operation and Maintenance of Farm Machinery Lab	✓		✓	✓
25.	AI8512	Post Harvest Engineering Laboratory		✓	✓	✓
26.	AI8513	Irrigation Field Laboratory			✓	✓
27.	HS8581	Professional Communication			✓	✓
28.	AI8601	Groundwater and Well Engineering		✓	✓	✓
29.	AI8602	Food and Dairy Engineering			✓	✓
30.	AI8603	Protected Cultivation		✓	✓	✓
31.	AI8604	Solar and Wind Energy Engineering			✓	✓
32.	AI8004	Agricultural Business Management	✓		✓	✓
33.	AI8005	Agricultural Economics and Farm Management			✓	✓
34.	AI8006	Agricultural Extension		✓	✓	✓
35.	MA8491	Numerical Methods			✓	✓
36.	GE8075	Intellectual Property Rights			✓	✓
37.	AI8007	Agricultural Waste Management		✓	✓	✓
38.	AI8008	Sustainable Agriculture and Food Security			✓	✓
39.	AI8611	CAD for Agricultural Engineering			✓	✓
40.	AI8612	Drawing of Farm Structures			✓	✓
41.	AI8613	Study Tour(1 Week)	✓		✓	✓
42.	AI8701	Soil and Water Conservation Engineering		✓	✓	✓
43.	AI8702	Remote Sensing and Geographical Information System			✓	✓
44.	AI8703	Bio-Energy Resource Technology			✓	✓
45.	AI8009	Refrigeration and Air Conditioning for Agricultural Engineers			✓	✓
46.	AI8010	Storage and Packaging Technology			✓	✓
47.	AI8011	Seed Processing Technology			✓	✓
48.	AI8012	Heat and Mass Transfer for Agricultural Engineers			✓	✓
49.	AI8013	Process Engineering of Fruits and Vegetables			✓	✓



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50.	GE8077	Total Quality Management	✓		✓	✓
51.	GE8072	Foundation Skills In Integrated Product Development			✓	✓
52.	OCY701	Chemistry in Food Industry			✓	✓
53.	OGI751	Climate Change and its impact		✓	✓	✓
54.	OME751	Design of Experiments			✓	✓
55.	OCH752	Energy Technology			✓	✓
56.	OCE751	Environmental and Social Impact Assessment			✓	✓
57.	OGI752	Fundamentals of Planetary Remote Sensing			✓	✓
58.	OEN751	Green Building Design	✓		✓	✓
59.	OME754	Industrial Safety			✓	✓
60.	OCS752	Introduction to C Programming		✓	✓	✓
61.	OAN751	Low Cost Automation			✓	✓
62.	OBT752	Microbiology			✓	✓
63.	OCH751	Process Modeling and Simulation			✓	✓
64.	OIE751	Robotics	✓		✓	✓
65.	OME752	Supply Chain Management			✓	✓
66.	OME753	Systems Engineering		✓	✓	✓
67.	AI8711	GIS Laboratory for Agricultural Engineers			✓	✓
68.	AI8712	Renewable Energy Laboratory			✓	✓
69.	AI8713	ICT in Agricultural Engineering Lab Exercises			✓	✓
70.	AI8714	Industrial Training (4 weeks During VI Semester -Summer)			✓	✓
71.	AI8001	Systems Analysis and Soft Computing in Agricultural Engineering	✓	✓	✓	✓
72.	AI8002	IT in Agricultural Systems			✓	✓
73.	AI8003	Climate change and adaptation			✓	✓
74.	GE8071	Disaster Management			✓	✓
75.	GE8074	Human Rights			✓	✓
76.	AI8004	Agricultural Business Management	✓	✓	✓	✓
77.	AI8005	Agricultural Economics and Farm Management			✓	✓



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78.	AI8006	Agricultural Extension			✓	✓
79.	MA8491	Numerical Methods			✓	✓
80.	AI8811	Project Work			✓	✓
B.E AGRI Regulation 2020						
81.	20MA301	Transforms and Boundary Value Problems			✓	✓
82.	20AG301	Engineering Thermodynamics for Agriculture Engineering			✓	✓
83.	20AG302	Theory of Machines			✓	✓
84.	20AG303	Fluid Mechanics and Machineries for Agriculture Engineering	✓		✓	✓
85.	20AG304	Soil Science and Engineering			✓	✓
86.	20AG305	Surveying and Levelling		✓	✓	✓
87.	20AG306	Computer Aided Design and Drawing Laboratory			✓	✓
88.	20MC302	Interpersonnal Skills			✓	✓
89.	20MA401	Numerical Analysis and Statistics		✓	✓	✓
90.	20AG401	Heat and Mass Transfer for Agriculture Engineering			✓	✓
91.	20AG402	Electrical and Electronics for Agriculture Engineering			✓	✓
92.	20AG403	Tractor and Farm Engines		✓	✓	✓
93.	20AG404	Strength of Materials for Agriculture Engineering			✓	✓
94.	20AG405	IoT in Agricultural Systems	✓		✓	✓
95.	20MC401	Soft Skills			✓	✓
96.	20MA101	Mathematics - I for Bio Sciences	✓		✓	✓
97.	20AG101	Basics of Agricultural Engineering			✓	✓
98.	20ENE01	Communicative English		✓	✓	✓
99.	20ENE02	Advanced Communicative English			✓	✓
100.	20CH101	Chemistry for Bio Sciences			✓	✓
101.	20ME101	Engineering Graphics			✓	✓
102.	20AG102	Agriculture Engineering Practices Laboratory	✓		✓	✓
103.	20MC101	Induction Programme			✓	✓



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104.	20MA201	Mathematics - II for Bio Sciences			✓	✓
105.	20ME201	Engineering Mechanics	✓		✓	✓
106.	20ENE03	Hindi			✓	✓
107.	20ENE04	French		✓	✓	✓
108.	20ENE05	German			✓	✓
109.	20PH201	Physics for Bio Sciences	✓		✓	✓
110.	20CS201	Problem Solving using Python		✓	✓	✓
111.	20AG201	Crop Husbandry Laboratory			✓	✓
112.	20MC201	Environmental Sciences		✓	✓	✓

	Prepared by	Reviewed by	Approved By
SIGN			
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HEAD OF THE DEPARTMENT
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