

Tuning INDIA
IIIrd General



&

Ist Implementation meeting
ICT Group Presentation

MEMBERS

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IIS University

Tuning Approach to Design a Degree Programme(s) in ICT SAG

In the Group, it has been identified that there are 3 levels of Degree programmes namely

- 1. Bachelors i.e (B.Tech CSE, IT)**
- 2. Masters(M.Tech CSE)**
- 3. Integrated (M.Tech)**

EXPECTED OUTCOMES

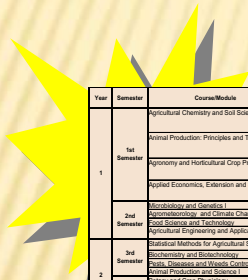


DESIGN

&

IMPLEMENTATION

Which TYPE of programme(s)?

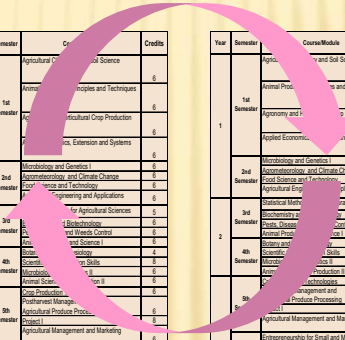


Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agronomy and Horticultural Crop Production	6
	2nd Semester	Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
		Agrometeorology and Climate Change	6
2	3rd Semester	Food Safety and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
	4th Semester	Biotechnology and Bioprocessing	6
		Pests, Diseases and Weeds Control	6
		Animal Production and Science I	6
3	5th Semester	Animal and Crop Physiology	6
		Scientific Communication Skills	6
		Microbiology and Genetics II	6
	6th Semester	Food Production Technologies	6
		Postharvest Management and Agricultural Produce Processing	6
		Agribusiness Management and Marketing	6
4	6th Semester	Entrepreneurship for Small and Medium Agribusiness	4
		Practical Training	10

EXISTING

Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agronomy and Horticultural Crop Production	6
	2nd Semester	Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
		Agrometeorology and Climate Change	6
2	3rd Semester	Food Safety and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
	4th Semester	Biotechnology and Bioprocessing	6
		Pests, Diseases and Weeds Control	6
		Animal Production and Science I	6
3	5th Semester	Animal and Crop Physiology	6
		Scientific Communication Skills	6
		Microbiology and Genetics II	6
	6th Semester	Food Production Technologies	6
		Postharvest Management and Agricultural Produce Processing	6
		Agribusiness Management and Marketing	6
4	6th Semester	Entrepreneurship for Small and Medium Agribusiness	4
		Practical Training	10

REVISED



Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agronomy and Horticultural Crop Production	6
	2nd Semester	Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
		Agrometeorology and Climate Change	6
2	3rd Semester	Food Safety and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
	4th Semester	Biotechnology and Bioprocessing	6
		Pests, Diseases and Weeds Control	6
		Animal Production and Science I	6
3	5th Semester	Animal and Crop Physiology	6
		Scientific Communication Skills	6
		Microbiology and Genetics II	6
	6th Semester	Food Production Technologies	6
		Postharvest Management and Agricultural Produce Processing	6
		Agribusiness Management and Marketing	6
4	6th Semester	Entrepreneurship for Small and Medium Agribusiness	4
		Practical Training	10

JOINT



Meta profile



Degree profile

Year	Semester	Course/Module	Credits
1	1st Semester	Structural Chemistry and Cell Culture	6
		General Production: Principles and Technology	6
		Geometry and Mathematical Computing Problems	6
	2nd Semester	Process Economics, Environment and Safety I	6
		Mathematical Methods I	6
		Chemical Process Design and Control	6
2	1st Semester	Chemical Process Design and Control	6
		Mathematical Methods II	6
		Chemical Process Design and Control	6
	2nd Semester	Advanced Management and Organizational Research	6
		Business Management and Marketing	6
		Entrepreneurship for Small and Medium Enterprises	6
3	1st Semester	Business Management and Marketing	6
	2nd Semester	Entrepreneurship for Small and Medium Enterprises	6
TOTAL			30

Programme



Institutional level

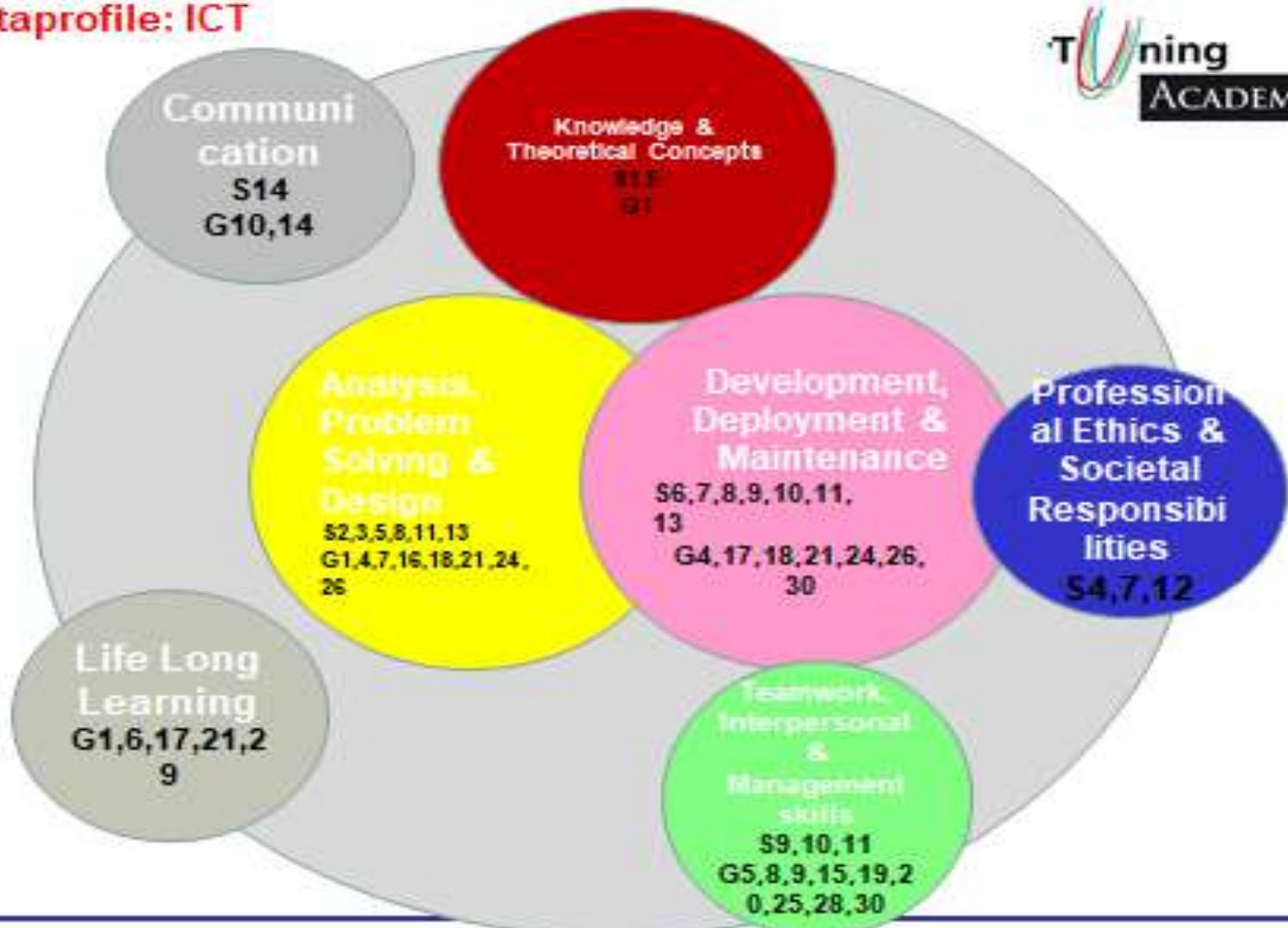


Competences



LEARNING OUTCOMES

Metaprofile: ICT



10 steps for designing

EXAMPLES

NAME and LEVEL of the programme

1



Points to consider

(1.1) Does the name reflect the aims and purpose of the programme?

(1.2) Is the programme at bachelor or master level?

(1.3) Is a possible progression from this degree to further studies made clear?

(1.4) Are the access requirements mentioned (if relevant)?

1.1. Yes, B.Tech (CSE), 4 year, 8 semester duration.

The name of programme is as per the requirements of Regulatory Body like UGC / AICTE and reflects the need felt by industry as well as Academia for graduates in solving the challenges in the computing domain.

1.2 Bachelor's level.

1.3 Yes, in general the Bachelor's degree programme is prerequisite for any related Master's programme in India and possibly in other parts of the world.

1.4 Yes, the requirements are mentioned as per 10+2 pattern with Physics, Chemistry & Mathematics as compulsory subjects from any recognized board of India and also to qualify either JEE(Main) or the University's entrance test.

SOCIAL NEED for the programme

(2.1) Is it clear why the programme is necessary – what social needs relevant for the local/national (as well as possibly international) context it has been (re)designed to meet?

(2.2) Is it clear why the programme has been revised, what stipulated the revision of the programme undertaken?

2.1 Partially yes. However, it can be described more explicitly for the sake of all the stakeholders through Brochures, University websites and other sources.

2.2 Yes. It is done to fill the gaps which emerged from the feedback received from various stake holders. Every year through BOS it is revised to keep pace with Industry requirements as well as academics

Future FIELDS OF OCCUPATION of graduates

(3.1) Does the description help students to have a clear (and realistic!) idea of future sectors of employment or further study possibilities?

(3.2) Is the language comprehensible to prospective students?

(3.3) Is the list of potential occupations sufficiently detailed?

3.1 Yes, during the counseling process at the time of admission, the counselors provide the information to the prospective students on wide variety of career options that are available in Government, Private, Defense, Semi Government sectors and also Entrepreneurial opportunities. Information on placement assistance is also provided.

Information on further studies for skill development or higher studies on various specializations is also provided. The same information is made available on the University website, brochures and through other channels.

3.2 At present, the information is available only in English, however the same will be made available in the major regional language.

3.3. Yes, the potential occupations like Computer Programmers, Data Scientists, Web Developers, Network Engineers, App developers, Server Security Managers, Multi Media, Entertainment Industry, Machine Translator, Database Administrator, Software Testing, Medical Transcriptions, Text summarization, Cross lingual information Access, Speech Technologies, Cyber Security, CAD, CAM, CAE, E-governance etc, are included.

DESCRIPTION of the DEGREE PROFILE of the programme

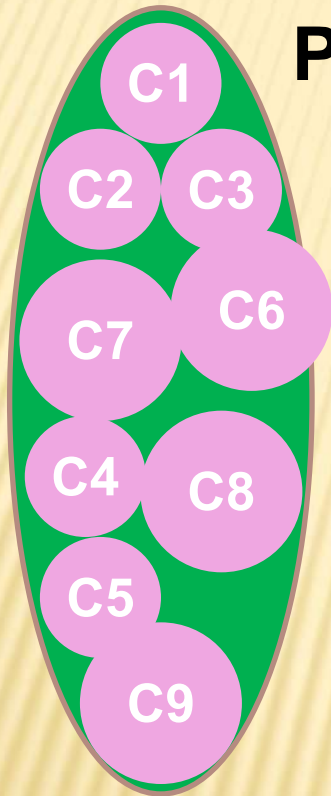
4



Express the desired graduate profile in terms of competences and list these, indicating which you consider to be generic and/or subject - specific. Formulate programme- level expected learning outcomes, indicating which competence each of them is related to; check for consistency.

1. Does the description include both generic and subject-specific competences?
2. Are competences defined in a way that both students and staff can understand?
3. Have programme-level learning outcomes been formulated?
4. Are they clear and well formulated with an action verb, content and context?
5. Are they measurable?

DESCRIPTION of the DEGREE PROFILE of the programme



LEARNING OUTCOME at Programme Level

LEARNING OUTCOME at Programme Level

LEARNING OUTCOME at Programme Level

Degree profile

Q-

What is C-course or competency

**DESCRIPTION of the
DEGREE PROFILE of the
programme**



Competence	Type	Definition	LEARNING OUTCOMES at programme level
<p>Ability to conduct /do research</p>	<p>Generic</p>	<p>Ability to use computer Science / ICT knowledge to plan and carry out basic research in various areas of ICT using programmes, Applications, Technologies etc.,</p>	<ol style="list-style-type: none"> 1. Identify research problems in the areas of cse and formulate research questions that can be solved individually as a result of 3-4 month research projects using field investigation techniques and laboratory analysis; 2. develop an aligned research plan with feasible internal deadlines and measurable progress indicators; 3. use appropriate field investigation techniques and laboratory analysis procedures in order to carry out the plan respecting the deadlines and making adjustments necessary to respond to the target research question(s).

FUTURE WORK

LINK of the DEGREE PROFILE with the META-PROFILE

(5.1) Is it clear which elements of the degree profile are part of the meta-profile and which are “unique” – i.e. related to the context and the institutional identity?

(5.2) Are the reasons for including additional elements (those related to the context and the institutional identify) stated in the description?

5.1)

Yes. The unique feature of the programme could be the emerging cross & interdisciplinary areas of specialization like cloud computing, Artificial Intelligence, Big Data Analytics etc., Also some of the ICT labs are sponsored by renowned corporate houses for real time project development.

(5.2)

The reasons are Semester Abroad (Student Exchange) programme & Faculty Exchange, faculty qualifications with expertise in the field of projects, research. Also the placement records, laboratories, modern library, Accreditations, Rankings etc. are included.

STRUCTURE of the PROGRAMME

Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	5
		Animal Production Principles and Techniques	5
		Agonomy and Horticultural Crop Production	5
	2nd Semester	Applied Economics, Extension and Systems	5
		Microbiology and Genetics I	5
		Plant Pathology and Disease Control	5
2	3rd Semester	Food Science and Technology	5
		Professional Engineering and Applications	5
		General Methods for Agricultural Sciences	5
	4th Semester	Plant Pathology and Disease I	5
		Soil and Crop Chemistry	5
		Plant Pathology and Disease II	5
3	5th Semester	Plant Pathology and Disease III	5
		Professional Management and Quality Control	5
	6th Semester	Entrepreneurship for Small and Medium Enterprises	5
		Practical Training	10

LEARNING OUTCOME

6

List the courses/modules/units that make up the programme; for each of the units, indicate its intended learning outcomes, as well as teaching, learning and assessment strategies used to ensure that students achieve the unit learning outcomes. Check the alignment within each unit.

1. Is there a list of the courses/modules/units that make up the programme?
2. Is information about intended learning outcomes and teaching, learning and assessment strategies provided for each programme unit?
3. Are teaching and learning activities appropriate for the learning outcomes of each unit/course/module?
4. Can the assessment methods used in each unit/module/course (a) promote and (b) measure the achievement of all the unit learning outcomes?
5. Are unit-level learning outcomes, teaching and learning activities and assessment tasks aligned logically?
6. Is there a general balance (no excessive repetition or excessive variety) in teaching, learning and assessment strategies across the different programme units?

DESIGN**IMPLEMENTATION****6**

Course Code	Course Name	L	T	P	C
BTF101	Mathematics-I	3	1	0	4
BTF102	Engineering Physics	3	1	0	4
BTF103	Principles of Environmental Studies	3	0	0	3
BTF104	Computer Fundamentals and Programming in C	3	0	0	3
BTF105	Engineering Graphics	4	1	0	5
BTF106	Skill for Engineers-I	2	0	0	2
BTF107	Engineering Physics Lab	0	0	2	1
BTF108	Computer Fundamentals and Programming in C Lab	0	0	4	2
BTF109	Engineering Graphics Lab	0	0	4	2
BTF110	Skill for Engineers-I Lab	0	0	2	1
	Total	18	03	12	27

Ist Semester

Course Code	Course Name	L	T	P	C
BTF201	Mathematics–II	3	1	0	4
BTF202	Engineering Chemistry	3	0	0	3
BTF203	Basic Electrical & Electronics Engineering	3	0	0	3
BTF204	Basic Civil &Engineering Mechanics	3	1	0	4
BTF205	Basic Mechanical Engineering	3	1	0	4
BTF206	Skill for Engineers–II	2	0	0	2
BTF207	Engineering Chemistry Lab	0	0	2	1
BTF208	Basic Electrical & Electronics Engineering lab	0	0	2	1
BTF209	Basic Civil &Engineering Mechanics Lab	0	0	2	1
BTF210	Basic Mechanical Engineering Lab	0	0	2	1
BTF211	Workshop Practice	0	0	6	3
BTF212	Skill for Engineers-II Lab	0	0	2	1
	Total	17	03	16	28

IInd Semester



Course Code	Name of Course	L	T	P	Credits
BTF301	Mathematics - III	4	1	0	5
BTAIC302	Object Oriented Programming using C++	3	1	0	4
BTAIC303	Discrete Mathematics	3	0	0	3
BTAIC304	Data Structures	3	1	0	4
BTAIC305	Digital Computer Fundamentals	3	0	0	3
BTF306	Skills for Engineers III	2	0	0	2
BTF307	Skills for Engineers III Lab	0	0	2	1
BTAIC308	Object Oriented Programming using C++ Lab	0	0	4	2
BTAIC309	Data Structures Lab	0	0	2	1
BTAIC310	Dot Net Framework and C# Lab	0	0	4	2
BTAIC311	Java Technology Lab	0	0	4	2
		18	3	16	29

It is to be noted Electives are offered in after IV th semeser

Semester/ Category	Lecture/ Tutorial/ Practical			Total Credits
	L	T	P	
I	18	03	12	27
II	17	03	16	28
Total	35	06	28	55

12	Lecture/ Tutorial/ Practical			Total Credits
	L	T	P	
III	18	3	16	29
IV	17	3	16	28
V	16	4	16	30
VI	16	2	20	28
VII	15	5	8	29
VIII	0	0	0	28
Total	82	17	76	172

GRAND TOTAL (I to VIII Semester)	227
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BTF101	Mathematics-I		L	T	P	C	
			3	1	0	4	

Course Objective

To impart analytical ability in solving mathematical problems as applied to the respective branches of Engineering.

Course Outcomes

1	To apply advanced matrix knowledge to Engineering problems.
2	To familiarize with the applications of differential equations.
3	To improve their ability in solving in Integral problems.
4	To expose the concept of O.D.E.

FIRST YEAR – FIRST SEMESTER

MATHEMATICS-I

Unit I

Matrices

Rank, solution of simultaneous equation by elementary transformation, Characteristic equation – Eigen values and Eigen vectors, Cayley – Hamilton theorem and its application to find its inverse. Application of Matrices.

Unit II

Differential Calculus

Partial Differentiation, Euler's Theorem and its application in application and errors, Maxima and Minima of Functions of two variables, Curvature, Radius of Curvature, Centre of Curvature. Some applications of Differential Calculus

Unit III

Integral Calculus

Definite integral, Double and Triple integrals, Change of order of integration, Area, Volume, Surface, using double and triple integral, Some applications of Integral Calculus

Unit IV

Ordinary Differential Equations

(12 hours)

Ordinary Differential Equations of first order and first degree for exact differential equations, Solution of O.D.E of first order and higher degree, Linear higher order with constant coefficients. Application of O.D.E

Unit V

Algebra of Logic, Graph Theory

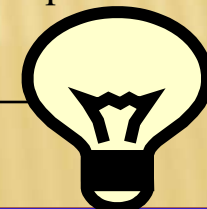
Algebra of logic, Boolean algebra and Boolean function, principal of duality, Principal of duality, Basics theorems of Boolean algebra. Application in switching & logical circuits. Application of graph theory

Jagran Lakecity University, Bhopal
School of Engineering and Technology
Teaching Learning Plan



This course is aimed at imparting candidates the **Mathematics-II** and aims at building the following key competencies amongst the Students.

Program Name	Degree in B.TECH (CSE)		
Course Name	Mathematics-II	Course Code	BTF201
Pre-requisite	<ul style="list-style-type: none"> • Mathematics-I • Fundamental Knowledge of Transformation. • Elementary knowledge of Analytic function. • Reasoning and logical ability. • Numerical solving ability. 		
Course Outcomes (LEARNING OUTCOMES)	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> • Develop advanced Laplace transform knowledge to Engineering problems. • Understand the application of Differential equations. • Able to solve vector problems, applications of differential equations. <p>Blooms Taxonomy will be included like Design, create, Analyse, etc.,</p>		



Sr. No	Module/Units	Lecture No.	Detailed Topic wise Syllabus	References
1.	Analytic Functions	L 1	Definition of Analytic Function.	Text book Chapter Analytic function R2(Unit-4)
		L 2	Cauchy Riemann equations.	
		L 3	Properties of analytic functions.	
		L 4	Determination of harmonic conjugate.	
		L 5	Milne-Thomson's method.	
		L 6, L 7	Conformal mappings: $1/z$, az , $az+b$	
		L 8	Introduction to Bilinear transformation,	
		L 9	Numerical based on B.T	
		L 10.	Some applications on Analytic function.	
		2.	Complex Integration	
L 12	Cauchy's integral theorem (without proof)			
L 13	Cauchy's integral formulae and its applications			
L 14	Taylor's expansion			
L 15	Laurent's expansions (statements only)			
L16	Singularities – Poles and Residues			
L17	Cauchy's residue theorem			
L18	Contour integration			
L19	Unit circle and semi circular contour.			
3.	Laplace Transforms	L 20	Transforms of simple functions	Text book Laplace transform Reference Chapter-3
		L 21	Basic operational properties	
		L 22	Transforms of derivatives and integrals	
		L 23	Initial and final value theorems	
		L 24	Inverse transforms	
		L 25	Convolution theorem	

6

6

		L 25	Convolution theorem	
		L 26	periodic functions	
		L 27	Applications of Laplace transforms for solving linear ordinary differential equations up to second order with constant coefficients only	
		L 28	Numerical based on L.D.E.	
		L 29, L 30	Applications of Laplace transform	
4.	Vector Calculus	L 31	Introduction to Gradient, with examples	Text book Chapter vector calculus Reference chapter-12
		L 32	Introduction to divergence, curl with examples	
		L 33	Solenoidal and irrotational fields with numericals	
		L 34	Vector identities (without proof) Directional derivatives	
		L 35	Line, surface and volume integrals	
		L 36	Green's, Gauss divergence and Stoke's theorems (without proof), applications of vector calculus.	
		L 37	Gauss divergence	
		L 38	Stoke's theorems	
5.	Differential Equation	L 39	Second order differential equations with variable coefficients	R1 UNIT-3 & UNIT-4
		L40	Second O.D.E numericals	
		L 41	Typical examples.	
		L 42	Method of variation of parameter	
		L 43	Series method	
		L44, L 45	Solution of differential equations by series method and its applications.	

TEXT BOOKS

1. B.S.Grewal, "Higher Engineering Mathematics" Khanna publisher's 43rd edition, 2012.

REFERENCES

1. H.K.Dass, "Advanced Engineering Mathematics", S.Chand & Company, 2017 edition.
2. Dr.D.C.Agarwal, "Engineering Mathematics-2", Shree Sai Prakashan 2017 edition.

Assessment Methodology

Sl No	Event	Date	Weightage(%)
1	Assignment-I	*	5
2	Assignment-II	*	5
3	Mid Semester Theory Examination (2hrs)	*	20
4	Assignment/Quiz-III	*	5
5	Assignment/Quiz-III	*	5
6	End Semester Theory Examination(3hrs)	*	60

7.1 Is it clear what the length of the programme is (in months)?

Yes. The length of the programme is 4 years i.e 48 months however, there are few months' provision for semester break which varies from University to University.

7

(7.2) Has the number of hours (in class and outside the classroom) for each unit/module/course been indicated?

The number of hours in class rooms are mentioned in the TLP i.e Teaching Learning Plan in which the Contact hours of a student is mentioned. For example a core course of CSE normally allotted 4 credits which means the student should have to contact the Teacher four hours in a week in the form of theory or tutorials.

Outside classroom work involves project work, conferences, internships, study tours, industry visits etc., will have to work out exactly.

(7.3) Has the teachers' perspective been contrasted with that of the students?

No. It will be done before, mid and end of the course.

1) before the start of the course the perspectives will be exchanged and if any suggestions worth to be considered will be incorporated.

2) again during the course (Midway) perspectives will be exchanged and if any suggestions worth to be considered will be incorporated.

3) At the end of the course, perspectives will be exchanged and if any suggestions worth to be considered will be incorporated.

Programme overall CONSISTENCY

(8.1) Is it clear if each unit/module/course contributes to the achievement of at least one programme-level learning outcome?

Yes, since each of the course outcomes feeds the programme outcomes which is already provided in the Academic Handbook.

(8.2) Is it clear if all of the programme-level learning outcomes are covered in the units/modules/courses of the programme?

Yes.

(8.3) Is there a progression and coordination of unit learning outcomes towards the development of each programme-level learning outcome / each competence of the graduate profile?

Yes.

(8.4) Does each programme-level learning outcome seem to be addressed in enough programme units to be achieved by students?

Yes.

FUTURE WORK

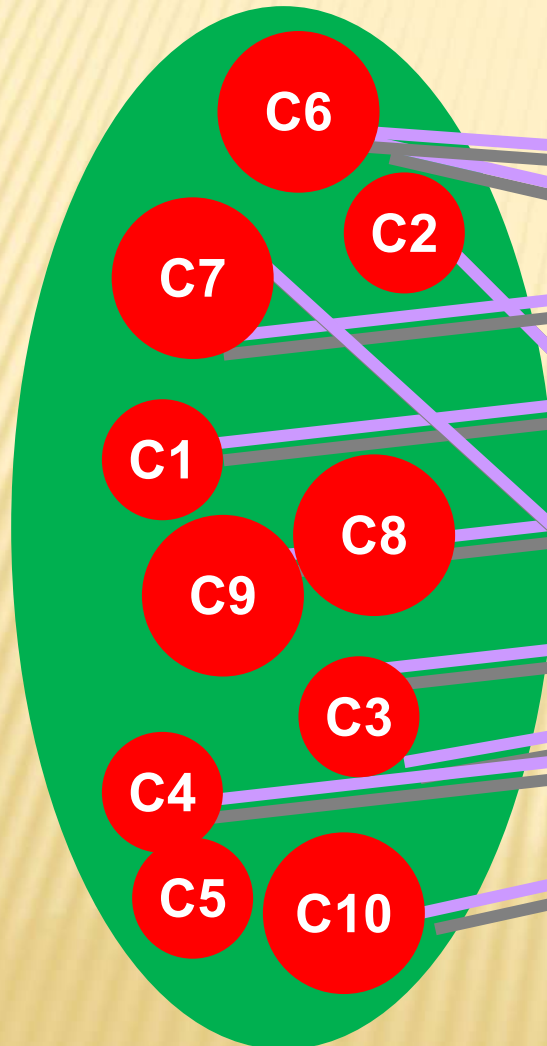
DESIGN

Programme overall CONSISTENCY



Degree profile

Programme



Year	Semester	Course/Module
1	1st Semester	Agricultural Chemistry and Soil Science
		Animal Production: Principles and Techniques
		Agriculture and Horticultural Crop Production
		Applied Economics, Extension and Systems
	2nd Semester	Microbiology and Genetics I
		Agriculture, Climate and Climate Change
		Plant Science and Technology
		Agricultural Engineering and Applications
		Statistical Methods for Agricultural Sciences
		Biochemistry and Biotechnology
2	3rd Semester	Insects, Diseases and Weeds Control
		Animal Production and Science I
	4th Semester	Forage and Crop Physiology
		Scientific Communication Skills
	5th Semester	Plant Pathology and Genetics II
		Animal Science and Production II
		Crop Production Technologies
		Postharvest Management and
		Agricultural Produce Processing
		Project I
3	6th Semester	Agricultural Management and Marketing
		Entrepreneurship for Small and Medium
	6th Semester	Agribusiness
		Project II
		Practical Training

FUTURE WORK

S No	Cluster/Dimensions Under Graduate / Bachelors Programme (B.Tech-CS)	Number of Courses	Subjects Name	Meta Profile Integration
1	Knowledge & Theoretical Concepts	27	Mathematics-I, II and III Engineering Physics Computer Fundamentals And Programming in C Engineering Chemistry Basic Electrical & Electronics Engineering Basic Civil & Engineering Mechanics Basic Mechanical Engineering Object Oriented Programming using C++ Discrete Mathematics Data Structures Digital Computer Fundamentals Operating Systems Computer Networks Cloud Computing Cryptography and Network Security Storage Management Automata and Formal Languages Database Management Systems Virtual Environments Management Internet of Things in the Cloud Cyber Forensics Microprocessor & Microcontrollers Ethical Hacking Biometric Systems	Acquisition of relevant principles, concepts & methods from mathematics, Computer Science, statistics and other allied disciplines and their applications to develop research capabilities.

2	Analysis, Design Problem Solving	Engineering Physics Lab Computer Fundamentals and Programming in C Lab Engineering Chemistry Lab Basic Electrical & Electronics Engineering lab Basic Civil &Engineering Mechanics Lab Basic Mechanical Engineering Lab Object Oriented Programming using C++ Lab Data Structures Lab Operating System Lab Computer Networks Lab Analysis and Design of Algorithms Computer Organization and Architecture Software Engineering Software Engineering Lab Analysis and Design of Algorithms Lab Cloud Computing Lab Scripting languages Lab Database Management Systems Lab Virtual Environments Management Lab Cyber Forensics Lab Microprocessor & Microcontrollers Lab Ethical Hacking Lab Cloud Web Services Lab	Developing the ability to apply the knowledge already acquired to formulate, analyze and model the solution for practical problems in an innovative manner. It should involve utilization of the available resources optimally so that the target is achieved in a secured manner, being also complaint with standards and specification.
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EXAMPLES

Programme overall CONSISTENCY



Units	Unit LOs	Competence 1			Competence 2		...
		Programme-level LO 1	Programme-level LO 2	Programme-level LO 3	Programme-level LO 4
U1	Unit 1 LO 1				✗		
	Unit 1 LO 2	✗					
U2	...						
	...						
	...						
...	...						

**FUTURE WORK
To Developpe this
Matrix!**

JAGRAN LAKECITY UNIVERSITY has established a quality management system, both internal and external performances evaluation exercises. IQAC (Internal Quality Assessment Cell) has been assigned the responsibility to monitor the all the quality aspects of academics in the University .

Similarly, external auditors from India and abroad are invited to audit the University Academics.

A close-up photograph of a hand holding a yellow daffodil flower. The background is blurred, showing what appears to be a person's face and a white shirt. The text is overlaid on this image.

Thanks to
TUNING INDIA TEAM FROM DEUSTO
& OTHER EU MEMBERS
IIS JAIPUR
ALL OTHER MEMBERS
&
MY ICT MEMBERS