

INFORMATION BROCHURE

SV College of Agricultural Engineering and Technology & Research Station

Faculty of Agricultural Engineering

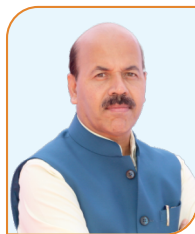
Indira Gandhi Krishi Vishwavidyalaya

Krishak Nagar, Raipur-492 012, Chhattisgarh, India



website :www.igkv.ac.in

Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh, India

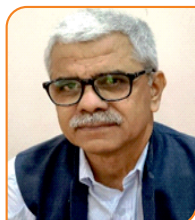


Dr. Girish Chandel
Hon'ble Vice Chancellor

SV College of Agricultural Engineering and Technology, Raipur Faculty Details



Dr. Ajay Verma
Dean (Agril. Engg),
PhD, NIT, Raipur



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Director Instructions & Professor
and Head, PhD, MPUAT, Udaipur



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Professor & Head (SWCE),
PhD, IIT, Kharagpur



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PhD, IIT, Kharagpur



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Dr. R K Naik
Professor & Head (FMPE),
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Professor (FMPE),
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Dr. B. L. Sinha
Professor (SWCE),
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Dr. D. Khalkho
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AP (LPM), PhD, Kamdhenu
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Er. O. P. Suryawanshi
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Guest Faculty (PFE),
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Faculty (SWCE),
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Overview

- ❖ Agricultural Engineering is the branch of engineering that applies engineering principles and technology to agricultural production, machinery design, natural resource management, and food processing. It focuses on improving agricultural efficiency, sustainability, and safety through technological innovation in areas like irrigation, structural design, and automation.
- ❖ Chhattisgarh is a predominantly agrarian state, with agriculture accounting for a significant portion of its economy and employment. Agriculture contributes around 25% of the state's GDP. The state has a total cultivated area of 4.78 million hectares.
- ❖ The IGKV Raipur was established on 20th January 1987 to impart agriculture and allied education, research and extension for the benefit of Chhattisgarh state. The vision of the Vishwavidyalaya is sustainable integrated development of agriculture for rural livelihood enhancement, generation of economic growth and opportunities in Chhattisgarh.
- ❖ As per the act and statutes of IGKV Raipur, the Faculty of Agricultural Engineering was established during 1997 and the post graduate program was started to develop trained human resources in the field of farm machinery and power, soil and water conservation engineering and processing and food engineering for fulfilling the demands of the area.
- ❖ Chhattisgarh government recognized the importance of engineering applications in Agriculture and so in 2013 a full flashed four years undergraduate program leading to B.Tech. (Agricultural Engineering) was started in addition to other Agricultural Engineering colleges of Chhattisgarh, at Swami Vivekanand College of Agricultural Engineering and Technology & RS, Raipur earlier known as Faculty of Agricultural Engineering, Raipur,

Academic Programme

SV College of Agricultural Engineering and Technology & RS, Raipur, offers undergraduate, post graduate and doctoral programme in the field of Agricultural Engineering and related departments as per the recommendation of ICAR, New Delhi. The college has successfully introduced NEP 2020 and adopted multiple entry and exit option as per its recommendation. The syllabus of UG programme is based on 6th Dean's committee recommendation of ICAR and for PG and PhD programme, the latest syllabus of BSMA recommendation of ICAR has been adopted. In addition to Raipur main campus, another constituent college BRSM College of Agricultural Engineering & Technology, Mungeli also offers undergraduate program i.e. B. Tech. (Agril. Engg). In undergraduate program the admission is given through CG VYAPAM PET whereas in PG and PhD program admission is given through Common Entrance Test conducted by IGKV Raipur.

Details of academic programme:

Program	Degree	Minimum Duration	Credit requirement	Number of seats in Govt colleges
Undergraduate	B.Tech. (Agril. Engg.)	04 year/ 8 semesters	184	135
Postgraduate	M. Tech. (Agril. Engg.)	02 year/ 4 semesters	70	36
Doctoral	Ph.D. (Agril. Engg.)	03 year/ 6 semesters	100	10

List of constituent/govt colleges offering different programme in Agricultural Engineering

No.	Name of College	UG program	PG & PhD program
1.	SV College of Agricultural Engineering and Technology & RS, Raipur	B.Tech. (Agril. Engg.)	03 Department
2.	BRSM College of Agricultural Engineering and Technology & RS, Mungeli	B.Tech. (Agril. Engg.)	Nil

Admission procedure

Undergraduate Programme

Degree name	Minimum admission requirement
B.Tech. (Agril. Engg)	1. Any student passing/passed 10+2 system of examination with Physics, Chemistry, Mathematics and English can appear in PET (Pre Engineering Test) conducted by CG VYAPAM and on the basis of PET merit list following state reservation policy admission is granted. The minimum percentage in 12th will remain fifty percent for open category and for rest of the students (SC, ST & OBC) forty percent marks is mandatory. Minimum age must be 16 years on 31st August in the year of admission.

Degree name	Minimum admission requirement
B.Tech. (Agril. Engg)	2. First preference will be given to PET candidates having Chhattisgarh domicile followed by JEE Mains and 12th merit basis. After exhaust of all Chhattisgarh domicile candidates, if seats remain vacant, advertisement will be published for other students.

Postgraduate Programme

Degree name	Minimum admission requirement
1. M.Tech. (Agril. Engg.) Processing and Food Engineering	B. Tech. (Agril. Engg.)/ B.Sc. (Agril. Engg.)/B.E. (Agril. Engg.)/ B.Tech. (Food Engineering / Food Technology/ Food Process Engineering/Food Process Technology) degree under 10+2+4 system from any recognized University or Institutes of National Importance (IIT, NIT, NIFTEM) with OGPA of 6.0 out of 10.0 scale or 60% in marks system of examination or equivalent grade.
2. M.Tech. (Agril. Engg.) Farm Machinery & Power Engineering	B. Tech. (Agril. Engg.)/ B.Sc. (Agril. Engg.) / B.E. (Agril. Engg.) degree from any recognized University or Institutes of National Importance (IIT, NIT, NIFTEM) under 10+2+4 system with OGPA of 6.0 out of 10.0 scale or 60% in marks system of examination or equivalent grade.
3. M.Tech. (Agril. Engg.) Soil and Water Conservation Engineering	B. Tech. (Agril. Engg.)/ B.Sc. (Agril. Engg.) / B.E. (Agril. Engg.) degree from any recognized University or Institutes of National Importance (IIT, NIT, NIFTEM) under 10+2+4 system with OGPA of 6.0 out of 10.0 scale or 60% in marks system of examination or equivalent grade.

Doctoral Programme

Degree name	Minimum admission requirement
PhD (Agril. Engg) Farm Machinery and Power Engineering	a. M. Tech./M.E./MS/ M.Sc. degree with OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination in Agricultural Engineering with specialization in Farm Machinery & Power/ Farm Implements & Machines/ Farm Power & Machinery in respective degree programme. b. The candidate must have completed degree from any recognized University or Institutes of National Importance (IIT, NIT, NIFTEM) under 10+2+4+2 system of education.
PhD (Agril. Engg) Soil and Water Conservation Engineering	a. M. Tech./M.E./MS/ M.Sc. degree with OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination in Agricultural Engineering with specialization in Soil & water Engineering/ Water Resources Development & Management/ Hydrology/ Soil & Water Conservation Engineering/ Irrigation & Drainage in respective degree programme. b. The candidate must have completed degree from any recognized University or Institutes of National Importance (IIT, NIT, NIFTEM) under 10+2+4+2 system of education.
PhD (Agril. Engg) Processing & Food Engineering	a. M. Tech./M.E./ MS/ M.Sc. degree with OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination in Agricultural Engineering with specialization in Agricultural Processing & Food Engineering/ Post Harvest Processing & Food Engineering/ Food Engineering/ Processing & Food Engineering/ Post Harvest Technology/ Food Technology from a recognized University. b. The candidate must have completed degree from any recognized University or Institutes of National Importance (IIT, NIT, NIFTEM) under 10+2+4+2 system of education.

Admission guidelines for international students

1. Few seats in undergraduate programme, postgraduate programme and doctoral programme are available for international students.
2. There is no compulsion for international students to appear in any entrance examination for admission in IGKV, Raipur, India.
3. The students who are recommended by ICCR/ICAR for admission in any course of IGKV Raipur are allowed directly subject to fulfillment of qualification and documents verification.
4. All other international students are advised to register themselves in SII (Study in India) portal for generating SII ID.
5. After generating SII ID, they can fill online application and submit relevant documents for the selected courses of IGKV Raipur, India.
6. On the basis of candidate's application an offer letter will be issued by competent authority of IGKV, Raipur for depositing fee to confirm admission at IGKV, Raipur, India. After acceptance of admission by candidate, VISA application can be submitted alongwith offer letter to appropriate agency.
7. Letter with all details regarding contact person at Indira Gandhi Krishi Vishwavidyalaya, Raipur and date of reporting, start of classes, accommodation facilities, mess, sports facilities etc. will be issued by competent authority of the university.

Curriculum for undergraduate programme B.Tech. (Agril. Engg)- Four years degree program:

First year- 1st Semester

No.	Course code	Title of course	Credit
1	EFC 6111	Deeksharambh	0+2(NG)
2	EBA 6111	Crop Production and Protection Technologies	4(3+1)
3	ECC 6111	Introduction to Agricultural Engineering	4(3+1)
4	ECE 6111	Surveying and Levelling	3(1+2)
5	EME 6111	Workshop Technology and Practice	2(0+2)
6	EEE 6111	Basic Electrical Gadgets and Instruments	3(2+1)
7	ECS 6111	Agricultural Informatics	3(2+1)
8	EFC 6112	NSS/ NCC-I	1(0+1)
Total			20(11+09)

First year- 2nd Semester

No.	Course code	Title of course	Credit
1	ESE 6121	Skill Enhancement	8(0+8)
2	EME 6121	Engineering Drawing	2(0+2)
3	ECS 6121	Computer Programming and Data Structures	2(0+2)
4	EBA 6121	Farming Based Livelihood Systems	3(2+1)
5	ECE 6121	Environmental Studies and Disaster Management	3(2+1)
6	ESS 6121	Communication Skills	2(1+1)
7	EFC 6121	NSS/ NCC-II	1(0+1)
Total			21(05+16)
1	EI 6121	Internship only for exit option (award of UG certificate)	10(0+10)

Second year- 1st Semester

No.	Course code	Title of course	Credit
1	EBS 6211	Engineering Mathematics-I	3(3+0)
2	EBS 6212	Engineering Physics	3(2+1)
3	EBS 6213	Engineering Chemistry	3(2+1)
4	ECE 6211	Engineering Mechanics	3(2+1)
5	ECE 6212	Soil Mechanics	2(1+1)

No.	Course code	Title of course	Credit
6	ESW6211	Fluid Mechanics and Open Channel Hydraulics	3(2+1)
7	EPF 6211	Engineering Properties of Agricultural Produce and Food Science	3(2+1)
8	EFM 6211	Farm Machinery & Equipment-I	3(2+1)
9	EFC 6211	Physical Education, First Aid and Yoga Practice	2(0+2)
Total			25(16+09)

Second year- 2nd Semester

No.	Course code	Title of course	Credit
1	EBS 6221	Engineering Mathematics-II	3(3+0)
2	ECE 6221	Theory of Structures	2(1+1)
3	ECE 6222	Building Construction & Cost Estimation	2(2+0)
4	ESW 6221	Watershed Hydrology	3(2+1)
5	ESW 6222	Soil and Water Conservation Engineering	3(2+1)
6	EFM 6221	Farm Machinery & Equipment-II	3(2+1)
7	ERE 6221	Renewable Energy Sources	3(2+1)
8	EPF 6221	Post-harvest Engineering of Cereals, Pulses and Oilseeds	3(2+1)
9	ESS 6221	Entrepreneurship Development and Business Management	3(2+1)
Total			25(18+07)
1	EI 6221	Internship project only for those opting for an exit with UG-Diploma	10(0+10)

Third year- 1st Semester

No.	Course code	Title of course	Credit
1	ECE 6311	Strength of Materials	2(1+1)
2	EME 6311	Theory of Machines	2(2+0)
3	EME 6312	Thermodynamics and Heat Transfer	3(3+0)
4	EFM 6311	Tractor & Automotive Engines	3(2+1)
5	EID 6311	Irrigation and Drainage Engineering	4(3+1)
6	EPF 6311	Food and Dairy Engineering	4(3+1)
7	ESS 6311	Personality Development	2(1+1)
8	ECC 6311	Seminar	1(0+1)
9	ECC 6312	Study tour	2(0+2) NG
Total			21(15+6) +2 (NG)

Third year- 2nd Semester

No.	Course code	Title of course	Credit
1	EFM 6321	Tractor Systems & Controls	3(2+1)
2	EID 6321	Ground water, Wells and Pumps	3(2+1)
3	ECS 6321	Sensors, AI and Robotics in Agriculture	3(2+1)
4	ECE 6321	Agricultural Structures & Environment Control	3(2+1)
5	ERE 6321	Bio energy Systems: Design and Applications	3(2+1)
6	EME 6321	Refrigeration and Air-conditioning	3(2+1)
7	EPF 6321	Post-harvest Engineering of Horticultural Crops	2(1+1)
8	ECC 6321	Case Study	1(0+1)
Total			21(13+8)

Fourth year- 1st Semester

No.	Course code	Title of course	Credit
1	ESE 6411	Project-I	3(0+3)
2	EME 6411	Engineering Graphics and Design	2(0+2)
3	EPF 6411	Food Quality and Safety	3(2+1)
4	ESW 6411	Watershed Planning and Management	3(2+1)
5	EID 6411	Sprinkler & Micro Irrigation Systems	2(1+1)
6	EME 6411	Machine Design	2(2+0)
7	EEE 6411	Electrical Machines	3(2+1)
8	EBE 6411	Agricultural Statistics and Data Analysis	2(1+1)
Total			20(10+10)

Fourth year- 2nd Semester

No.	Course code	Title of course	Credit
A1	ESE 6421	Project-II	4(0+4)
A2	EI 6421	In-plant Training/Research Internship	8(0+8)
Below 1 to 37 courses are elective, select any three totaling 09 credits			
1	EFM 6421	Mechanics of Tillage and Traction	3 (2+1)
2	EFM 6422	Farm Machinery Design and Production	3 (2+1)
3	EFM 6423	Tractor Design and Testing	3 (2+1)
4	EFM 6424	Hydraulic Drives and Controls	3 (2+1)
5	EFM 6425	Human Engineering and Safety	3 (2+1)
6	EBA 6421	Precision Agriculture and System Management	3 (2+1)
7	ERE 6421	Photovoltaic Technology and Systems	3 (2+1)
8	ERE 6422	Wind Power Technology and Systems	3 (2+1)
9	EFM 6426	Waste and By-products Utilization	3 (2+1)
10	ESW 6421	Floods and Control Measures	3 (2+1)
11	ESW 6422	Remote Sensing and GIS Applications	3 (2+1)
12	ESW 6423	Information Technology for Land and Water Management	3 (2+1)
13	ESW 6424	Wasteland Development	3 (2+1)
14	ESW 6425	Minor Irrigation and Command Area Development	3 (2+1)
15	ESW 6426	Management of Canal Irrigation System	3 (2+1)
16	ESW 6427	Water Quality and Management Measures	3 (2+1)
17	ESW 6428	Landscape Irrigation Design and Management	3 (2+1)
18	EBA 6422	Application of Plastics in Agriculture	3 (2+1)
19	EBA 6423	Precision Farming Techniques for Protected Cultivation	3 (2+1)
20	ECE 5421	Environmental Engineering	3 (2+1)
21	EPF 6421	Development of Processed Food Products	3 (2+1)
22	EPF 6422	Food Packaging Technology	3 (2+1)
23	EPF 6423	Food Plant and Equipment Design	3 (2+1)
24	EPF 6424	Emerging Technologies in Food Processing	3 (3+0)
25	EPF 6425	Processing of Livestock, Fish and Marine Products	3 (2+1)
26	EPF 6426	Food Business Management & Entrepreneurship Development	3(3+0)
27	EBE 6421	MATLAB Programming	3(1+2)
28	EBE 6422	Python Programming	3(1+2)
29	EBE 6423	Artificial Intelligence	3(2+1)
30	EBE 6424	Advances in Automation and Robotics in Agriculture	3(2+1)

No.	Course code	Title of course	Credit
31	EBE 6425	Machine Learning	3(2+1)
32	EBS 6421	Operations Research	3(3+0)
33	EBE 6426	Mechatronics	3(2+1)
34	EPF 6427	Natural Fibres: Extraction & Properties	3 (2+1)
35	EPF 6428	Natural Fibre Applications in Agriculture	3 (2+1)
36	EPF 6429	Processing of Natural Fibres	3 (2+1)
37	EBM 6421	Agricultural Marketing and Trade	3 (2+1)
38	EOL 6421	*On-line courses	6
		Total	21(6+15)
		NG	04
	Grand Total		174 (94+80)+6 online + 4 NG

Curriculum for Postgraduate and Doctoral programme:

Minimum credits required for PG programme						
Major	Minor	Supportive	Compulsory common	Seminar	Research/IDEA	Total
20	08	06	05	01	30	70
Minimum credits required for PhD programme (* UGC course+** if not studied during PG)						
12	06	05	02* +05**	02	75	100

Department of Farm Machinery and Power Engineering

Name of Degree – M.Tech. (Agril. Engg.) Farm machinery and Power Engineering

M.Tech. (Agril. Engg) Farm Machinery and Power Engineering 1st year- 1st semester

Course No.	Title	Credits	Course type
FMPE 501*	Soil Dynamics in Tillage and Traction	3(2+1)	Major
FMPE 504	Design of Tractor Systems	3(2+1)	Major
FMPE 505	Design of Farm Machinery - I	3(2+1)	Major
FMPE 507*	Management of Farm Power and Machinery System	3(2+1)	Major
FMPE 513	Applied Instrumentation in Farm Machinery	3(2+1)	Major
FMPE 516	Advance Manufacturing Technologies	2(2+0)	Major
FMPE 517	Machinery for Precision Agriculture	3(2+1)	Major
Minor Courses			
PFE 502	Unit operations in food process engineering	3(2+1)	Minor
SWCE 507	GIS and Remote Sensing for Land& Water Resource Management	3(2+1)	Minor
REE 513	Energy, ecology and Environment	3 (3+0)	Minor
ME 501	Mechatronics and Robotics in Agriculture	2(2+0)	Minor
ME 507	Fatigue Design	3(2+1)	Minor
CE 501	Dimensional Analysis and Similitude	2(1+1)	Minor
MATHS 502	Numerical Methods for Engineers	2(2+0)	Minor
CSE 501	Big Data analytics	3(2+1)	Minor
CSE 505	Database Management System	3(2+1)	Minor
Supportive Courses			
STAT 501	Mathematics for Applied Sciences	2(2+0)	Supportive
STAT 502	Statistical Methods for Applied Sciences	4 (3+1)	Supportive
STAT 512	Basic Sampling Techniques	3(2+1)	Supportive

Course No.	Title	Credits	Course type
MCA 511	Introduction of Communication Technologies, Computer Networking & Internet	2(1+1)	Supportive
MCA 512	Information Technology in Agriculture	2(1+1)	Supportive
BIOCHEM 501	Basic Biochemistry	4(3+1)	Supportive
Common Courses			
PGS 501	Library and Information Services	1(0+1)	Common
PGS 502	Technical Writing and Communication Skills	1(0+1)	Common
PGS 504	Basics Concepts in Laboratory Techniques	1(0+1)	Common

M.Tech. (Agril. Engg) Farm Machinery and Power Engineering 1st year- 2nd semester

Course No.	Title	Credits	Course type
FMPE 502*	Testing and Evaluation of Agricultural Equipment	3(2+1)	Major
FMPE 503*	Ergonomics and Safety in Farm Operations	3(2+1)	Major
FMPE 506	Design of Farm Machinery - II	2(1+1)	Major
FMPE 511	Principles of Automation and Control	3(2+1)	Major
FMPE 512	Principles of Hydraulic and Pneumatic Systems	3(2+1)	Major
FMPE 514	System Simulation and Computer Aided Problem Solving in Engineering	2(1+1)	Major
FMPE 515	Computer Aided Design of Machinery	2(0+2)	Major
FMPE 518	Machinery for Horticulture and Protected Agriculture	2(2+0)	Major
Minor Courses			
PFE 508	Application of Engineering properties in Food Processing	3 (2+1)	Minor
ME 504	Vibrations	3(2+1)	Minor
ME 515	Computer Aided Design	3(2+1)	Minor
REE 503	Biomass Energy Conservation Technologies	3(2+1)	Minor
REE 516	Agro Energy Audit and Management	3(2+1)	Minor
CE 510	Experimental Stress Analysis	3(2+1)	Minor
MATHS 501	Finite Element Methods	2(1+1)	Minor
CSE 502	Artificial Intelligence	3(2+1)	Minor
Supportive Courses			
STAT 511	Experimental Designs	3(2+1)	Supportive
STAT 521	Applied Regression Analysis	3(2+1)	Supportive
STAT 522	Data Analysis Using Statistical Packages	3(2+1)	Supportive
MCA 501	Computer Fundamentals and Programming	3(2+1)	Supportive
MCA 502	Computer Organization and Architecture	2(2+0)	Supportive
BIOCHEM 505	Techniques in Biochemistry	4(2+2)	Supportive
Common Courses			
PGS 503	Intellectual Property and its Management in Agriculture	1(1+0)	Common
PGS 505	Agricultural Research, Research Ethics & Rural Development Programmes	1(1+0)	Common

M.Tech. (Agril. Engg) Farm Machinery and Power Engineering 2nd year- 1st semester

Course No.	Title	Credits	Course type
FMPE 591	Masters' Seminar	1(0+1)	Seminar
FMPE 598	Internship-IDEA	30(0+30)	HoD will decide
OR			
FMPE 599	Masters' Research	30(0+30)	

M.Tech. (Agril. Engg) Farm Machinery and Power Engineering 2nd year- 2nd semester

Course No.	Title	Credits	Course type
FMPE 598	Internship-IDEA	30(0+30)	HoD will decide
OR			
FMPE 599	Masters' Research	30(0+30)	

Ph.D. (Agril. Engg.) Farm Machinery and Power Engineering

1st year- 1st semester

Course No.	Title	Credits	Course type
Major Courses			
FMPE 601*	Advances in Farm Machinery and Power Engineering	3(2+1)	Major
FMPE 604	Mechanics of Tillage in Relation to Soil and Crop	3(2+1)	Major
FMPE 612*	Farm Machinery Management and Systems Engineering	3(2+1)	Major
FMPE 691	Doctoral Seminar-I	1(0+1)	Major
Minor Courses			
PFE 604	Agricultural Waste and By-Products Utilization	3(2+1)	Minor
REE 615	Energy Planning Management and Economics	3(3+0)	Minor
REE 602	Thermo-Chemical Conversion of Biomass	3(2+1)	Minor
Supportive Courses			
STAT 604	Advanced Statistical Methods	3(2+1)	Supportive
Common Courses			
PGS 501	Library and Information Services	1(0+1)	Common
PGS 502	Technical Writing and Communication Skills	1(0+1)	Common
PGS 504	Basics Concepts in Laboratory Techniques	1(0+1)	Common

1st year- 2nd semester

Course No.	Title	Credits	Course type
Major Courses			
FMPE 602	Advances in Machinery for Precision Agriculture	3(2+1)	Major
FMPE 603	Energy Conservation and Management in Production Agriculture	3(3+0)	Major
FMPE 614	Ergonomics in Working Environment	3(2+1)	Major
FMPE 692	Doctoral Seminar – II	1(0+1)	Seminar
Minor Courses			
FMPE 613	Machinery for Special Farm Operations	3(2+1)	Minor
FMPE 611	Mechanics of Traction and Its Application	3(2+1)	Minor
Supportive Courses			
AG 600	Research and Publication Ethics	2(1+1)	Supportive
STAT 613	Advanced Sampling Techniques	3(2+1)	Supportive
Common Courses (if not studied in PG Programme)			
PGS 503	Intellectual Property and its Management in Agriculture	1(1+0)	Common
PGS 505	Agricultural Research, Research Ethics & Rural Development Programmes	1(1+0)	Common

2nd year- 1st semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
FMPE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	20(0+20)

2nd year- 2nd semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
FMPE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	40(0+40)

3rd year- 1st semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
FMPE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	60(0+60)

3rd year- 2nd semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
FMPE 699	Doctoral Research	Thesis	75(0+75)	(0+15) Continued	75(0+75)

Department of Processing and Food Engineering Name of Degree – M.Tech. (Agril. Engg.) Processing and Food Engineering

M.Tech. (Agril. Engg) Processing and Food Engineering 1st year- 1st semester

Course No.	Title	Credits	Course type
Major Courses			
*PFE 501	Transport Phenomena in Food Processing	3(2+1)	Major
*PFE 502	Unit Operations in Food Process Engineering	3(2+1)	Major
PFE 505	Storage Engineering and Handling of Agricultural Produce	3(2+1)	Major
PFE 507	Instrumentation and Sensors in Food Processing	3(2+1)	Major
PFE 509	Food Quality and Safety	3(2+1)	Major
PFE 510	Food Processing Technologies	3(2+1)	Major
PFE 516	Processing of Meat, Poultry and Fish	3(2+1)	Major
PFE 517	Design of Aquacultural Structures	3(2+1)	Major
PFE 518	Thermal Environmental Engineering for Agricultural Processing	3(2+1)	Major
Minor Courses			
Farm Machinery and Power Engineering			
FMPE 507	Management of Farm Power and Machinery System	3(2+1)	Minor
Processing and Food Engineering (Processing Technology)			
FPT 502	Emerging Technologies in Food Packaging	3(2+1)	Minor
FPT 508	Nutraceuticals and Specialty Foods	3(2+1)	Minor
FPT 513	Food Powders and Premixes	3(2+1)	Minor
ME 501	Mechatronics and Robotics in Agriculture	2(2+0)	Minor
REE 513	Energy, Ecology and Environment	3(3+0)	Minor
REE 518	Energy Management in Food Processing Industries	2(1+1)	Minor
CSE 501	Big Data Analytics	3(2+1)	Minor
CSE 505	Database Management System	3(2+1)	Minor
CE 501	Dimensional Analysis and Similitude	2(1+1)	Minor
Supportive Courses			
STAT 501	Mathematics for Applied Sciences	2(2+0)	Supportive
STAT 502	Statistical Methods for Applied Sciences	4 (3+1)	Supportive
MCA 511	Introduction to Communication Technologies, Computer Networking and Internet	2(1+1)	Supportive
MCA 512	Information Technology in Agriculture	2(1+1)	Supportive
BIOCHEM 501	Basic Biochemistry	4 (3+1)	Supportive
Common Courses			
PGS 501	Library and Information Services	1(0+1)	Common
PGS 502	Technical Writing and Communication Skills	1(0+1)	Common
PGS 504	Basics Concepts in Laboratory Techniques	1(0+1)	Common

M.Tech. (Agril. Engg) Processing and Food Engineering 1st year- 2nd semester

Course code	Title	Credit hours	Course type
Major courses			
*PFE 503	Field Crops Process Engineering	3(2+1)	Major
*PFE 504	Horticultural Crops Process Engineering	3(2+1)	Major
PFE 506	Food Package Engineering	2(1+1)	Major
PFE 508	Application of Engineering Properties in Food Processing	3(2+1)	Major
PFE 511	Food Processing Equipment and Plant Design	2(1+1)	Major
PFE 512	Seed Process Engineering	2(1+1)	Major
PFE 513	Agri-Project Planning and Management	3(2+1)	Major
PFE 514	Farm Structures and Environmental Control	3(2+1)	Major
PFE 515	Dairy Product Processing	3(2+1)	Major
Seminar			
PFE 591	Master's Seminar	1 (0+1)	Seminar
Minor courses			
Farm Machinery and Power Engineering			
FMPE 511	Principles of Automation and Control	3(2+1)	Minor
FMPE 514	System Simulation & Computer Aided Problem Solving in Engineering	2(1+1)	Minor
FMPE 515	Computer Aided Design of Machinery	2(0+2)	Minor
Processing and Food Engineering (Processing Technology)			
FPT 515	Flavour Chemistry and Technology	3(2+1)	Minor
FPT 518	Food Process Automation and Modelling	2(2+0)	Minor
ME 502	Refrigeration Systems	3(2+1)	Minor
REE 503	Biomass Energy Conversion Technologies	3(2+1)	Minor
REE 516	Agro Energy Audit and Management	3(2+1)	Minor
CSE 502	Artificial Intelligence	3(2+1)	Minor
CE 510	Experimental Stress Analysis	3(2+1)	Minor
Supportive Courses			
STAT 511	Experimental Designs	3 (2+1)	Supportive
STAT 512	Basic Sampling Techniques	3 (2+1)	Supportive
STAT 521	Applied Regression Analysis	3(2+1)	Supportive
STAT 522	Data Analysis Using Statistical Packages	3(2+1)	Supportive
MCA 501	Computers Fundamentals and Programming	3(2+1)	
MCA 502	Computer Organization and Architecture	2(2+0)	Supportive
BIOCHEM 505	Techniques in Biochemistry	4 (2+2)	Supportive
Common courses			
PGS-503	Intellectual Property and its management in Agriculture	1 (1+0)	Common
PGS-505	Agricultural Research, Research Ethics & Rural Development Programmes	1 (1+0)	Common

M.Tech. (Agril. Engg) Processing and Food Engineering 2nd year- 1^{2nd} semester

Course No.	Title	Credits	Course type
FMPE 598	Internship-IDEA	30(0+30)	HoD will decide
OR			
FMPE 599	Masters' Research	30(0+30)	

M.Tech. (Agril. Engg) Processing and Food Engineering 2nd year- 2nd semester

Course No.	Title	Credits	Course type
FMPE 598	Internship-IDEA	30(0+30)	HoD will decide
OR			
FMPE 599	Masters' Research	30(0+30)	

Ph.D. (Agril. Engg.) Processing and Food Engineering

1st year- 1st semester

Course No.	Title	Credits	Course type
Major Courses			
*PFE 601	Advances in Food Process Engineering	3(2+1)	Major
PFE 603	Textural and Rheological Characteristics of Food Materials	3(2+1)	Major
PFE 604	Agricultural Waste and By-Products Utilization	3(2+1)	Major
PFE 691	Doctoral Seminar - I	1 (0+1)	Seminar
Minor Courses			
Farm Machinery and Power Engineering			
REE 602	Thermo-Chemical Conversion of Biomass	3(2+1)	Major
REE 615	Energy Planning Management and Economics	3(3+0)	Major
Processing and Food Engineering (Processing Technology)			
FPT 602	Food Packaging	3(3+0)	Minor
FPT 604	Plant Food Products	3(3+0)	Minor
FPT 606	Animal Food Products	3(3+0)	Minor
FSQ 603	Quality Assurance in Food Supply Chain	3(3+0)	Minor
FSQ 607	Sensory Evaluation of Foods	2(2+0)	Minor
Supportive Courses			
STAT 604	Advanced Statistical Methods	3(2+1)	Supportive
Common Courses			
PGS 501	Library and Information Services	1(0+1)	Common
PGS 502	Technical Writing and Communication Skills	1(0+1)	Common
PGS 504	Basics Concepts in Laboratory Techniques	1(0+1)	Common

1st year- 2nd semester

Course No.	Title	Credits	Course type
Major Courses			
*PFE 602	Drying and Dehydration of Food Materials	3(2+1)	Major
PFE 605	Mathematical Modeling in Food Processing	3(3+0)	Major
PFE 606	Bioprocess Engineering	3(2+1)	Major
PFE 692	Doctoral Seminar - II	1(0+1)	Seminar
Minor Courses			
Farm Machinery and Power Engineering			
FMPE 603	Energy Conservation and Management in Production Agriculture	3(3+0)	Minor
REE 616	Renewable Energy for Industrial Application	3(2+1)	Minor
Processing and Food Engineering (Processing Technology)			
FPT 603	Food Manufacturing Technology	3(3+0)	Minor
FPT 605	Food Process Modeling and Scale up	3(3+0)	Minor
FSQ 604	Formulation of Standards of Food Products, Packaging and Labeling	2(2+0)	Minor

Course No.	Title	Credits	Course type
Supportive Courses			
AG 600***	Research and Publication Ethics	3(2+1)	Supportive
STAT 613	Advanced Sampling Techniques	3(2+1)	Supportive
Common Courses			
PGS-503	Intellectual Property and its management in Agriculture	1 (1+0)	Common
PGS-505	Agricultural Research, Research Ethics & Rural Development Programmes	1 (1+0)	Common

***compulsory

2nd year- 1st semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
PFE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	20(0+20)

2nd year- 2nd semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
PFE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	40(0+40)

3rd year- 1st semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
PFE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	60(0+60)

3rd year- 2nd semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
PFE 699	Doctoral Research	Thesis	75(0+75)	(0+15) Continued	75(0+75)

Department of Soil and Water Conservation Engineering
Name of Degree – M.Tech. (Agril. Engg.) Soil and Water Conservation Engineering
M.Tech. (Agril. Engg.) Soil and Water Conservation Engineering 1st year- 1st semester

Course Code	Course Title	Course Type	Credit Hours
*SWCE 501	Advanced Soil and Water Conservation Engineering	Major	3(2+1)
*SWCE 502	Applied Watershed Hydrology	Major	3(2+1)
SWCE 503	Soil and Water Conservation Structures	Major	3(2+1)
SWCE 504	Stochastic Hydrology	Major	3(2+1)
SWCE 507	Remote Sensing & GIS for Land and Water Resource Management	Major	3(2+1)
IDE 505	Design of Drip and Sprinkler Irrigation Systems	Minor	3(2+1)
IDE 506	Groundwater Engineering	Minor	3(2+1)
ME 501	Mechatronics and Robotics in Agriculture	Minor	2(2+0)
CE 501	Dimensional Analysis and Similitude	Minor	2(2+0)
CSE 501	Big Data Analytics	Minor	2(2+0)
CSE 504	Soft Computing Techniques in Engineering	Minor	3(2+1)
MATH 501	Finite Element Methods	Minor	2(2+0)
STAT 502	Mathematics For Applied Sciences/ Agricultural Economics	Supportive	3 (2+1)
STAT 511	Experimental Designs	Supportive	3(2+1)
Agron 504	Principles and Practices of Water Management	Supportive	3(2+1)
AGM 504	Agro-meteorological Measurements and Instrumentation	Supportive	3(1+2)
*PGS 501	Library and Information Services	Common	1(0+1)
*PGS 502	Technical Writing and Communication Skills	Common	1(0+1)
*PGS 504	Basic Concepts in Laboratory Techniques	Common	1(0+1)

*Compulsory course

M.Tech. (Agril. Engg.) Soil and Water Conservation Engineering 1st year- 2nd semester

Course Code	Course Title	Course Type	Credit Hours
*SWCE 505	Watershed Management and Modeling	Major	3(2+1)
SWCE 506	Flow Through Porous Media	Major	2(2+0)
SWCE 508	Climate Change and Water Resources	Major	3(3+0)
SWCE 509	Numerical Methods in Hydrology	Major	2(2+0)
SWCE 510	Dryland Water Management Technologies	Major	2(2+0)
IDE 510	Minor Irrigation	Minor	3(2+1)
IDE 513	Water Resources Systems Engineering	Minor	3(2+1)
FMPE 517	Machinery for Precision Agriculture	Minor	3(2+1)
SWCE 591	Seminar	Compulsory	1(0+1)
CE 502	Water Quality and Pollution Control	Minor	3(2+1)
CSE 502	Artificial Intelligence	Minor	2(2+0)
REE 513	Energy, Ecology and Environment	Minor	3(3+0)
MATH 502	Numerical Methods for Engineers	Minor	2(2+0)
STAT 501	Statistical Methods for Applied/ Social Sciences	Supportive	3 (2+1)
MCA 501	Computers Fundamentals and Programming	Supportive	3(2+1)
MCA 511	Introduction to Communication Technologies, Computer Networking and Internet	Supportive	2(1+1)
SOIL 513	Soil Survey and Land use Planning	Supportive	3(2+1)
AGM 511	Strategic use of climatic information	Supportive	3(2+1)
*PGS 503	Intellectual Property and its management in Agriculture	Common	1(1+0)
*PGS 505	Agricultural Research, Research Ethics & Rural Development Programmes	Common	1(1+0)

M.Tech. (Agril. Engg.) Soil and Water Conservation Engineering 2nd year- 1st semester

Course Code	Course Title	Course Type	Credit Hours
SWCE 599 OR SWCE 598	Thesis Research / IDEA (Internship/ In-plant Training)	Compulsory	0+30

M.Tech. (Agril. Engg.) Soil and Water Conservation Engineering 2nd year- 2nd semester

Course Code	Course Title	Course Type	Credit Hours
SWCE 599 OR SWCE 598	Thesis Research / IDEA (Internship/ In-plant Training)	Compulsory	0+30

Name of Degree – PhD (Agril. Engg.) Soil and Water Conservation Engineering

1st year- 1st semester

Course No.	Title	Credits	Course type
Major Courses			
* SWCE 601	Advances in Hydrology	3(2+1)	Major
*SWCE 602	Soil and Water Systems Simulation and Modeling	3(2+1)	Major
SWCE 604	Modeling Soil Erosion Processes and Sedimentation	3(2+1)	Major
SWCE 691	Doctoral Seminar - I	1 (0+1)	Seminar
Minor Courses			
IDE 604	Soil-Water-Plant-Atmospheric Modeling	3(2+1)	Minor
From Soil Science			
SOIL 606	Soil Resource Management	3(3+0)	Minor
From Agronomy			
AGRON 603	Irrigation Management	3(2+1)	Minor

Course No.	Title	Credits	Course type
Supportive Courses			
STAT 602	Simulation Techniques	2(1+1)	Supportive
STAT 604	Advanced Statistical Methods	3(2+1)	Supportive
AGM 601	Climate change and sustainable development	3(2+1)	Supportive
Common Courses			
PGS 501	Library and Information Services	1(0+1)	Common
PGS 502	Technical Writing and Communication Skills	1(0+1)	Common
PGS 504	Basics Concepts in Laboratory Techniques	1(0+1)	Common

1st year- 2nd semester

Course No.	Title	Credits	Course type
Major Courses			
SWCE 603	Reservoir Operation and River Basin Modeling	3(2+1)	Major
SWCE 605	Waste Water Treatment and Utilization	3(3+0)	Major
SWCE 606	Hydro-Chemical Modeling	2(2+0)	Major
SWCE 692	Doctoral Seminar-II	1(0+1)	Seminar
Minor Courses			
IDE 603	Hydro-Mechanics and Ground Water Modeling	3(2+1)	Minor
IDE 606	Multi Criteria Decision Making System	2(2+0)	Minor
Supportive Courses			
STAT 615	Advanced Time Series Analysis	2(2+0)	Supportive
AG 600	Research and Publication Ethics	2(1+1)	Supportive
Common Courses			
PGS 503	Intellectual Property and its management in Agriculture	1(0+1)	Common
PGS 505	Technical Writing and Communication Skills	1(0+1)	Common

2nd year- 1st semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
SWCE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	20(0+20)

2nd year- 2nd semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
SWCE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	40(0+40)

3rd year- 1st semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
SWCE 699	Doctoral Research	Thesis	75(0+75)	(0+20) Continued	60(0+60)

3rd year- 2nd semester

Course No.	Title	Course Type	Total Credits	Semester Credits	Cumulative Credits
SWCE 699	Doctoral Research	Thesis	75(0+75)	(0+15) Continued	75(0+75)

Hands-on-Training:

Looking to era of skilling and adoption of NEP 2020, the course of B.Tech. (Agril.Engg) four years degree program is designed in such a way that students are more exposed to practical learning and skill development activities of major subjects of Agricultural Engineering (Farm mechanization, water management, processing and food engineering, R&M of tractors and farm equipment, R & M of irrigation pumps, drip and sprinklers, Value addition etc). More emphasis is given to practical compared to class room teaching. A separate skilling courses have been introduced besides regular practical classes, field work, exposure visits and educational tours for a sound grasp of the theory that underlies professional degree. Such learning allows students to get as involved as possible to increase their knowledge and abilities. The practical and hands-on-training is being conducted in different courses to meet the student satisfaction through field practical, exposure visits to private and public sector concerns, laboratories, progressive farmers etc. As per BSMA recommendation the concept of IDEA for internship in addition to thesis research work has also been adopted.





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State of Art laboratories and other infrastructure:

The College has adequate number of laboratories to address the requirements of subjects: farm machinery lab, farm power lab, ergonomics lab, animal drawn machinery lab, power operated machinery lab, workshops, Plant protection lab, Computer Lab, Soil Water Engg lab-1, Soil Water Engg lab -2, GIS and RS Lab, Food Processing lab -1, Food Processing lab -2, Electrical Engineering & Electronics Engineering, Mechanical Engineering Lab, Civil Engineering Lab, Engineering Chemistry lab and Physics lab to conduct practical/hands on training as per the latest syllabus. The college has good facilities of smart class rooms for modern teaching of students.



ICT Application in Curricula Delivery:

The University is promoting the use of ICT tools and techniques in improving the teaching and learning of the students through measures like use of recorded lectures for different topics in theory and practical course wise for access to students, video conferencing, smart classrooms and other audio video aids. The college has developed learning resources, in the form of texts, videos, software, and other ICT enabled materials that teachers are using to assist students to meet the expectations for learning defined by ICAR recommended curricula. The campus offers virtual classrooms for online learning, ensuring flexibility and accessibility. All classrooms are Wi-Fi-enabled, allowing easy access to digital resources, research materials, and e-learning platforms. Additionally, the seminar halls are equipped with advanced ICT tools to support seminars, workshops, and guest lectures.



University Library:

In the central zone, the Nehru Library has been recognized as best library. This has all types of books, journals, magazines pertaining to Agricultural Engineering in addition to all other reading materials. It is well equipped with the modern automated services. The library is linked with various consortiums for online journals and these repository. It maintains around one lakh collection of books, reports, theses, monographs, journal volumes, e resources, CD ROM database and other reference material.



Communication skill and personality development:



Special activities are carried out for personality development of college students. These include NCC /NSS/Sports/Yoga and cultural activities etc. The students are exposed to learning of good command of the language for communication purposes with clarity and accuracy being vital for effective and efficient communication. It helps to acquire such proficiency in a language through special lecture and classes, workshops by experts for language teaching in the college. It is a major step forward for high quality professional competence, practical work experience in real life situation to graduates of agricultural engineers.



Sports and cultural facilities:

The sports and cultural activities are well defined in the academic calendar of university. Accordingly, all activities are being performed by college effectively and efficiently. The University campus is having a sports complex with 02 large play grounds, separate courts for badminton, table tennis and volleyball along with a multi gym which is shared by all the colleges situated at Raipur including Agricultural Engineering. There is a large lawn for yoga purpose along with facility of trainer for students as well as resident staff. The cultural fest in the form MADAI is a unique program celebrated as per calendar. Good auditorium of different capacity and sports complex is also available in the campus. Students are participating in state level and national level cultural program every year.



Accommodation:

The accommodation facilities both for boys and girls are available in the main campus Raipur and it is under the jurisdiction of dean Student's Welfare. The same facilities are being shared by all students of different colleges situated at Raipur. Beyond security, the hostel offers modern and comfortable rooms, good kitchen, RO water, recreation hall, internet facilities, dispensary and facilities of indoor games.



Training and Placements:

The training and placement wing works under the control of Dean Student's Welfare and they organize the training and placement drive very efficiently. The special lectures are arranged for specific competitive examination. Student Competitive Forum is functional in the University headquarter. This facility provides students with a platform to develop critical thinking, problem-solving, and analytical skills. It also facilitates interaction among students from different backgrounds to exchange ideas and knowledge and foster a spirit of competitiveness that drives students to improve and excel.

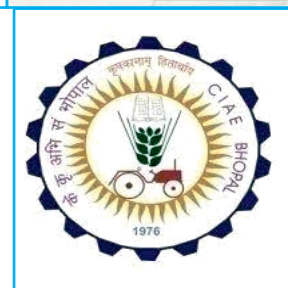


Internship/inplant training and industry collaborations under Student READY

Since the start of PG program in Faculty of Agricultural Engineering in 1997 and establishment of full fledged college in 2013, the courses and syllabus are being adopted as per Dean's committee recommendation of Indian Council of Agricultural Research, New Delhi. An initiative in the form of student READY, inplant training, research internship and experiential learning has been fully adopted. The students are deputed to different private and govt agencies to learn new technologies of farm mechanization, processing and food engineering, value addition, soil and water conservation, irrigation management, advanced tractor and farm equipment's, RES gadgets etc. The list of our industry partners and govt organizations who have supported us for training is excellent.



- Mahindra Tractors
- Escorts Tractors
- Jain Irrigation Systems Ltd
- Central Farm Machinery Training and Testing Institute, Budni
- Northern Farm Machinery Training and Testing Institute, Hisar
- Southern Farm Machinery Training and Testing Institute, Anantpur
- North Eastern Farm Machinery Training and Testing Institute, Chariali
- ICAR Central Institute of Agricultural Engineering, Bhopal
- ICAR Central Institute of Post Harvest Engineering and Technology, Ludhiana
- ICAR Indian Institute of Soil and Water Conservation, Dehradun
- ICAR Indian Institute of Soil and Water Conservation Research Centre, Kota, Rajasthan
- ICAR Indian Institute of Soil and Water Conservation Research Centre, Vasad, Gujrat
- ICAR Indian Institute of Soil and water Conservation Research and Training Centre, Datia, MP
- ICAR Indian Institute of Horticulture Research, Bangalore
- ICAR National Rice Research Institute, Cuttack
- ICAR Central Research Institute for Dry Land Agriculture, Hyderabad
- KAPS Ice-cream, Raipur



Research areas and Industry collaboration:

Presently all the three departments are dealing with All India Coordinated Research Projects supported by Indian Council of Agricultural Research, New Delhi viz: AICRP on Mechanization of animal husbandry, AICRP on Farm Implements and machines and AICRP on Post harvest technology. Since the establishment of the Faculty of Agricultural Engineering different ICAR/other agencies supported projects have been completed. To give research academic exposure to PG and PhD students collaboration has been made with national institutes of ICAR and different SAUs. By this collaboration students are deputed to different ICAR institutes during 2nd year of PG and PhD programme for thesis research work and internship. Efforts are underway for international collaboration so the students may be deputed for few months to know about latest technology and interaction with scientists of international repute.



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