SANMATI ENGINEERING COLLEGE, WASHIM AQAR 2021-22

Yearly Status Report - Extended Profile

1.1. Number of courses offered by the institution across all programs during the year.

As institute is affiliated with SGBAU Amravati, Schemes of all courses provided by Sant Gadge Baba Amravati University, Amravati is provided for data validation.



Four Year Degree Course in Bachelor of Engineering Brand Semester Pattern (

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Note- An Induction Program of Three Weeks duration to be offered to the students at the start of First Year.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH: COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER: FOURTH

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		Subject Name		Artificial Intelligence	Data Communication & Networking	Operating System	Microprocessor & Assembly Lang, Prog.	Theory of Computation	Environmental Studies *		Data Communication & Networking Lab	Operating System Lab	Microprocessor & Assembly Lang. Prog. Lab	C Skill-Lab II (#)	Total	, C. C.
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tical		Total						The state of				50	50	50	50	200
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* As per the Ordinance No. 42 of 2005

CSkill Lab !! - based on technology like -PHP, Web Technology, Raspberry Pi/Ardino, etc. to be decided by Individual Dept. of respective College

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH: COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM) SEMESTER: THIRD

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C Skill Lab I - based on technology like -Python/Django etc. to be decided by Individual Dept. of respective College

* As per the Ordinance No. 42 of 2005

Open Elective I to be opted from the courses offered by other engineering technology boards of the university /Massive Open learning Courses (MOOC) such as SWAYAM pertaining to the profession An Orientation Program of 15 hours duration /IMOOC on Indian Constitution to be offered to the students during the Vth Semester

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* C Skill Lab III - based on technology like - Angular & React, Express, Node is etc. to be decided by Individual Dept. of respective College Practicals Theory 9 00 6 4 U w Sr No Security Track 5KS09 5KS07 5KS06 5KS05 5KS04 5KS03 5KS02 5KS08 5KS01 CY. IOT DS A Subject Code C Skill Lab III (*) Emerging Technology Lab# I Compiler Design Lab Database Management Systems Lab (@) Open Elective - I (\$) Professional Elective-I (#) Database Management Systems Computer Architecture & Organization Compiler Design Subject Name Introduction to Cyber Security Internet of Things Data Science and Statistics Cognitive Technologies # Professional Elective-I Tetal 16 w w w 4 Lecture Hours/Week @ Practicals using MongoDB, MySQL 0 Teaching Scheme Tutorial Principles of Marketing for Engineering Entrepreneurship Fundamentals of Finance & Accounting 00 2 2 P/D Total Hours/ 24 N 2 N w w S Open Elective - I w 4 Week 20 w 4 Credit of paper Duration (Hr) w w w ω w Theory Marks Paper 80 80 80 80 80 Assessment Theory Max Marks College 20 20 Track Total Tol DS 500 A 100 Examination Scheme 100 100 100 100 Kali Linux, OpenVPN, NMAP, Metasploit Framework Arduino, DeviceHive, Kaa, Home Assistant R, Python, Cassandra, Apache Hadoop TensorFlow, Apache SystemML, Caffe, OpenNN, IBM Watson, Microsoft Cognitive Toolkit, Passing Marks FOSS Tools & Technology for Practicals Min 40 40 40 40 40 Emerging Technology Lab# I External 25 25 25 25 Max Marks Internal Total 25 25 25 25 Practical 700 Total 200 50 50 50 50 Passing Marks 25 25 25 25 Min

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH: COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

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Open Elective II to be opted from the courses offered by other engineering technology boards of the university /Massive Open learning ourses (MOOC) such as SWAYAM pertaining to the profession An Orientation Program of 15 hours duration /MOOC on Indian Constitution to be offered to the students during the Vth Semester

* C Skill Lab IV - based on technology like - DevOp to be decided by Individual Dept. of respective College Practicals 5 4 Theory 9 00 6 w Sr No Cy.Security 6KS08 6KS07 6KS06 Track 6KS05 6KS09 6KS04 6KS03 6KS02 6KS01 Tol DS A Subject Code C Skill Lab IV (*) Open Elective - II (\$) Professional Elective-II (#) Emerging Technology Lab# II Software Engineering Lab Software Engineering Security Policy & Governance Design & Analysis of Algorithm Lab Design & Analysis of Algorithm Subject Name Sensors & Actuators **Big Data Analytics** Natural Language Processing Cryptography # Professional Elective-II BOOM ww w 4 Lecture Hours per Week < Teaching Scheme Tutorial Intellectual Property Right Computational Biology Cyber Law & Ethics CO 2 2 2 P/D 24 \$ Open Elective - II 2 Total Hours/Week 20 w 4 w Credit of paper Duration (HE) Theory Marks Paper Max 80 80 80 80 80 Assessment Max Marks Theory College 20 20 20 20 20 Track Total Tol DS 500 100 100 100 **Examination Scheme** $\underline{\mathsf{A}}$ 100 100 VeraCrypt, ModSecurity, AdBlocker, CheckShortURL SPAMfighter, SpamBully Devicehub, Zetta, Node-RED, Flutter, M2MLabs Mainspring KNIME, Spark, Neo4J, MongoDB, Hive, Storm, Natural Language Toolkit (NLTK), SpaCy, PyTorch-NLP, Passing Marks FOSS Tools & Technology for Practicals Zin. 40 40 40 Emerging Technology Lab# II External 25 25 25 25 Max Marks Internal Total 25 25 25 Practical Total 700 200 50 50 50 50 Passing Marks Min 25 25 25 25

BRANCH: COMPUTER SCIENCE & ENGINEERING - SEVIESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER: SIXTH

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

BRANCH - COMPUTER : JIENCE & ENGINEERING - SEMESTER PATTERN (CLEDIT GRADE SYSTEM) FOUT TEAR DEGREE COURSE IN BACHELOR OF ENGINY ING

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Professional Elective II* (i)Distributed Computing (ii) Mobile Computing (iii) Saft Computing (iv) Network Security

TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULLTIME) COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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Notes: 1. Student should fill the examination form in the beginning of III semester jointly for III & IV semester.

Dissertation work be submitted with late fee to the University up to 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged

2. Single mark sheet for III & IV semester together will be given to the student.

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POST GRADUATE DEGREE COURSE IN MASTER (NGINEERING (FULLTIME)

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Semester III

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work be submitted with late fee to the University upto 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged as in case of Examination and subject expert appointed by Principal of the College / Head of University Department. Remaining 60 internal marks will be given by guide based on performance Seminar : to be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide Note: Thesis of dissertation work must be submitted to the University on or before 30th April (for regular exam.) and 30th November (for supplementary exam.). Thesis of Dissertation

2 Single marksheet for III & IV somester together will be given to the student Notes: 1. Student should fill the examination form in the beginning of III semester jointly for III & IV semester

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Four Year Degree Course in Bachelor of Engineering Branch: ELE, TRICAL ENGINEERING
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Open Elective-1 to be open from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

An Orientation Program of 15 Hours duration/ MOOCs on Indian Constitution to be offered during V semester. Open Elective - 1: The law recal Drives (ii) Power Plant Engineering

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Electrical Engineering College Head-of-department Open Elective-I to be opted from the University's Esculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

An Orientation Program of 15 Hours duration MODES on Indian Constitution to be offered during V semester. (HON-convertional Every system) much

(ii) ELECTRICAL ESTIMATION & COSTING

Open Elective - II (i) ENERGY AUDIT & MANAGEMENT	Prof. Elective – I: (i) Advanced Control Systems (ii) Di
(ii) ELECTRICAL ESTIMATION & COSTING	gital Communication Systems (ni) Industrial Electrical Systems

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SEMESTER: SIXTH

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING BRANCH: ELECTRICAL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM) SEMESTER - SEVENTH

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THE	ORY															
01	7EE01	Control System II	4	-	_	4	4	3	80	20	100	40	-	_		_
02	7EE02	Power System Operation & Control	4	_	-	4	4	3	80	20	100	40		_	-	-
03	7EE03	Electrical Power - II	4	_	-	4	4	3	80	20	100	40	-	-	-	_
04	7EE04	Switchgear & Protection	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	7EE05	Professional Elective - I *	4	_	_	4	4	3	80	20	100	40	_	_		12
PRA	CTICALS / D	RAWING / DESIGN														
06	7EE06	Project & Seminar	-	-	2	2	4	-	-	_			0	50	50	25
-67	7EE07	Electrical Power - II -Lab	~	_	2	2	1	_		=			25	25	50	25
08	7EE08	Switchgear & Protection -Lab	_	-	2	2	1	-	-	-	_		25	25	50	25
		TOTAL	20	-	6	26	26				500				150	
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^{*} Professional Elective - I 1] Process Control System 2] Wind Electrical Systems 3] Computer Methods in Power System Analysis 4] Artificial Intelligence

								Semester : Eigh	th							
THE 01	8EE01	Power System Stability	3	_		3	3	3	80	20	100	40	_	-	_	
02	8EE02	High Voltage Engineering	4	_	_	4	4	3	80	20	100	40	_	_	_	
03	8EE03	Digital Signal Processing	4	_	_	4	4	3	80	20	100	40	121	-	-	_
04	8EE04	Professional Elective - II**	3	_	_	3	3	3	80	20	100	40	-	-	-	-
PRA	TICALS / D	RAWING / DESIGN														
05	8EE05	Project & Seminar	-	_	6	6	12	-	-	_	-	_	75	75	150	25
06	8EE06	Digital Signal Processing -Lab	-	_	2	2	1	-	_	-	_	-	25	25	50	25
		TOTAL	14	_	8	22	27				400				200	
															TOTAL	60

[&]quot;* Professional Elective - II 1] Electric Drives & Control 2] Power Quality 3] Power System Management 4] Generalised Machine Theory

Head of department
Electrical Engineering
Sanmati Engineering College
WASHIM

FOUR YEAR B. E. DEGREE COURSE IN MECHANICAL ENGINEERING SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER: SEVENTH TEACHING SCHEME Total HOURS/WEEK Total HOURS/WEEK CREDITS OF PAR (Hrs.) A 4 4 3 A 3 A 3	Subject SEMESTER : SEVENTH	SEMESTER : SEVENTH	Subject SEMESTER : SEVENTH	SEMESTER: SEVENTH	SEMESTER: SEVENTH	SEMESTER : SEVENTH	SEMESTER : SEVENTH
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Note: **The Examination of the Subject Environmental Studies shall be conducted in IV Semester.

Four Year Degree Course in Bachelor of Engineering Branch: MECHANICAL ENGINEERING Semester Pattern (Choice Based Credit Grade System)

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	T	Machine Drawing- lab.	Fluid Mechanics- lab.	Mechanics of Materials- lab.	Manufacturing Processes- lab.	PRACTICALS / DRAWING / DESIGN	**Environmental Studies	Fluid Mechanics	Engineering Thermodynamics	Mechanics of Materials	Manufacturing Processes	Mathematics-III		2		Subject		
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Note: **The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

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	Total	Hydraulic & Pneumatic Systems-lab	Basic Electrical Drives & Control -lab	Manufacturing Technology-lab	Material Science-lab	PRACTICALS / DRAWING / DESIGN	**Environmental Studies	Hydraulic & Pneumatic Systems	Basic Electrical Drives & Control	Manufacturing Technology	Energy Conversion - I	Material Science				Subject	
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Open Elective - I (For other Disciplines): (i) Production Management (ii) Manufacturing Techniques

An Orientation Program of 15 Hours duration / MOOCs on Advanced Courses line Machine learning, 3-D Printing, Virtual Reality, Supply Chain Management, Numerical Computation for Mechanical Engineers, Bio-mechanics, Fundamentals of nano-Engineering, Micro-Electro Mechanical Systems, Nano-to-Macro Transport Processes, Fundamentals of Photo Voltaics, Machine Tools etc. be offered during V semester.

Open Elective-1 to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

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	Total	Research Skills - lab.	Prof. Elective - I - lab.	Dynamics of Machines- lab.	Design of Machine Elements- lab.	PRACTICALS / DRAWING / DESIGN	Open Elective - II	Prof. Elective - I	Control System Engineering	Dynamics of Machines	Design of Machine Elements		46		Subject	
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Open Elective-II to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession. 6ME05: Open Elect. (II) [For other Disciplines]: (i) Non-Conventional Energy Sources (ii) Automobile Engineering 6ME04: Prof. Elect. (I): (i) Tool Engineering (ii) Non-Conventional Energy Sources (iii) Computer Aided Design & Simulation

Note: **The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

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Four Year Degree Course in Bachelor of Engineering Branch: CIVIL ENGINEERING
Semester Pattern (Choice Based Credit Grade System)

Note: **The Examination of Subject Environmental Science shall be conducted in IV Semester.

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Note: Open Elective - I to be opted

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	Subject			Design of Steel Structures	Environmental Engineering - I	Fluid Mechanics	Prof. Elective - II	Open Elective - II	PRACTICALS / DRAWING / DESIGN	Design of Steel Structures-lab.	Environmental Engineering - I-lab	Fluid Mechanics-lab.	Mini Project	Total		ii) Students need to do compulsory Two (2) weeks Internship after 6th Semester and that shall be monitored by allotted Final year Project Guides.	6CE04: PE (II): (i) Advanced Construction Materials (ii) Geographic Information Systems & Science (iii) Masonry Structures (iv) Solid & Hazardous Waste Management (v) Traffic Engineering & Management
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FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING BRANCH - CIVIL ENGINEERING -SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER-SEVENTH

Appendix-A

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		Total	Project & Seminar	Environmental Engineering-II - Lab	Water Resources Engineering-II-Lab	PRACTICALS / DRAWING / DESIGN	Professional Elective-II	Project Planning & Management	Environmental Engineering-II	Water Resources Engineering-II		Professional Elective-I (I) Advanced Water Treatment		Total	Project & Seminar	Structural Design-II - Lab	Geolechnical Engineering-II - Lab	Theory of Stuctures-II - Lab	PRACTICALS / DRAWING / DESIGN		Environmental Engineering-I	Structural Design-II	Geotechnical Engineering-II	Theory of Stuctures-II		Subject		
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