



Re-Accredited 'B++' 2.86 CGPA by NAAC

VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

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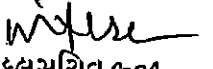
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-: પરિપત્ર :-

યુનિવર્સિટીની તમામ અભ્યાસ સમિતિઓના સભ્યશ્રીઓ તથા તમામ વિદ્યાશાખાના અધ્યક્ષશ્રીઓને જણાવવા નું કે, અભ્યાસક્રમ તૈયાર કરવા માટેનો Proforma IQAC ની તા.૦૮/૦૮/૨૦૨૫ ની સભાના ઠરાવ ક્રમાંક:૦૬ થી મંજૂર કરી એકઝીક્યુટીવ કાઉન્સિલને કરેલ ભલામણ એકઝીક્યુટીવ કાઉન્સિલની તા.૧૮/૦૮/૨૦૨૫ ની સભાના ઠરાવ ક્રમાંક:૩૮ થી યથાવત સ્વીકાર કરી બોર્ડ ઓફ મેનેજમેન્ટને કરેલ ભલામણ બોર્ડ ઓફ મેનેજમેન્ટની તા.૨૫/૦૮/૨૦૨૫ ની સભાના ઠરાવ ક્રમાંક:૪૦ થી ભલામણનો યથાવત સ્વીકાર કરેલ છે, આથી તમામ અભ્યાસ સમિતિ દ્વારા અભ્યાસક્રમો સદર પ્રોફોર્મ મુજબ તૈયાર કરી જમા કરાવવા જાણ કરવામાં આવે છે.

(બિડાણ : ઉપર મુજબ)


કુલસચિવ

ક્રમાંક:ઓથો./પરિપત્ર/Syllabus Proforma /૨૬૧૩૦/૨૦૨૫
તા.૦૬/૧૦/૨૦૨૫

પ્રતિ,

- (૧) અભ્યાસ સમિતિના ચેરપર્સનશ્રીઓ,
- (૨) વિદ્યાશાખાના અધ્યક્ષશ્રીઓ,
- (૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી, સુરત.

..... જાણ તથા ઘટતું થવા.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

Name of Program								
Program Abbreviation								
Duration								
Eligibility Criteria								
Pre-requisite								
Medium of Instruction								
Objective of Program								
Program Outcome (PO)	PO1 : PO2 : PO3 : PO4 : PO5 : PO6 : PO7 :							
Program Specific Outcomes (PSO)	PSO1 : PSO2 : PSO3 : PSO4 : PSO5 : PSO6 :							
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	PO1							
	PO2							
	PO3							
	PO4							
	PO5							
	PO6							
	PO7							

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name										
Semester										
NCrF Credit Level										
Course Type	Major / Minor / MDC / AEC / SEC / VAC / VAC-IKS / Research Project / Internship / Vocational etc. (Specify the relevant Course Type)									
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)									
Subject Type	Discipline Specific / Intra-disciplinary / Emerging Technology / Vocational Education etc. (Specify the relevant Subject Type)									
Course Code										
Course Level										
Course Title										
Credit	Theory:		Practical:		Total:					
Effective Form	Academic Year :									
Course Outcomes	CO1 - CO2 - CO3 - CO4 - CO5 - CO6 -									
Course Content	Unit - 1 Unit - 2 Unit - 3 Unit - 4									
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
	CO1									
	CO2									
	CO3									
	CO4									
	CO5									
CO6										
Reference Books										
Teaching Methodology										
Evaluation Method	Internal Assessment : _____ Marks External Assessment : _____ Marks									



NATIONAL CREDIT FRAMEWORK (NCrF)

The Report of the High-Level Committee
Comprising Members
from
UGC, AICTE, NCVET, DoSEL & DoHE, MoE,
MSDE, CBSE, NCERT, NIOS and DGT

April 2023

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Table 3: NCrF levels for different academic grades/ Vocational Education & Training/ Skilling* and Assessment Bands

Academic Band/ Hours of Learning per year	Academic Grade/ Levels- School Education & Higher Education	Vocational Education Long Term Training/ Short Term Training (LTT/SST)	National Credit Framework (NCrF) Credit levels	Credits Earned/ year	Credit Points Earned	Assessment Stage and equivalence
Doctoral Degree	Ph.D.	NSQF Level 8 STT	8.0	40	320	
PG degree (1/2 years) / ME/ M Tech (1200 Hrs./yr)	PG- 2 nd (Engg) PG - 2 nd yr/ PG 1 st yr (Engg)	NSQF Level 7 STT NSQF Level 6.5 STT	7.0 6.5	40 40	280 260	M.Tech. 2 nd Yr/ Engg PG Degree PG Degree/ M. Voc / M.Sc. (Engg)
4-year UG with honors/ Research / B.E./ B.Tech. OR 3 year UG (1200 Hrs/yr)	4-year UG with honors/ Honors with Research / PG - 1st yr UG- 3 rd Year UG- 2 nd Year UG- 1 st Year/equivalent	NSQF Level 6 STT 10 th +5-Yr NTC/NAC/CIITS, 12 th +3-Yr NTC/NAC/CIITS, NSQF Level 5.5 STT 10 th +4-Yr NTC/NAC/CIITS, 12 th +2-Yr NTC/NAC/CIITS, NSQF Level 5 STT 10 th +3-Yr NTC/NAC/CIITS, 12 th +1-Yr NTC/NAC/CIITS, NSQF Level 4.5 STT	6.0 5.5 5.0 4.5	40 40 40 40	240 220 200 180	UG- Degree (Hons)/ PG - Diploma/B.Tech/BE UG- Degree/ B. Voc/ B.Sc. Eng UG- Diploma UG- Certificate
2 year- Senior Secondary (1200 Hrs/yr)	Class XII Class XI	10 th +2-Yr NTC/NAC/CIITS, NSQF Level 4 STT 10 th +1-Yr NTC/NAC/CIITS, NSQF Level 3.5 STT	4.0 3.5	40 40	160 140	Class XII (Thru CBSE/ School Boards/ NIOS) Diploma Vocation Class XI (Thru CBSE/ School Boards/ NIOS) Certificate of Vocation
2 Year- Secondary (1200 Hrs/yr)	Class X Class IX	8 th +2-Yr NTC/NAC, NSQF Level 3 STT 8 th +1-Yr NTC/NAC, NSQF Level 2.5 STT	3.0 2.5	40 40	120 100	Class X (Thru CBSE/School Boards/ NIOS) Class IX (Thru CBSE/ School Boards/ NIOS)
3 year- Middle (1200 Hrs/yr)	Class VIII Class VII Class VI Class V	NSQF Level 2 STT NSQF Level 1.67 NSQF Level 1.33 NSQF Level 1.0	2.0 1.67 1.33 1.0	40 40 40 33	80 67 53 33	Class VIII (thru School Boards/ NIOS) Class V (thru School Boards/ NIOS)
3 year- Preparatory (1000 Hrs/yr)	Class IV Class III Class II Class I	NSQF Level 0.8 NSQF Level 0.6 NSQF Level 0.4 NSQF Level 0.2	0.8 0.6 0.4 0.2	33 33 27 27	26.4 19.8 10.8 5.4	Class V (thru School Boards/ NIOS)
5 year Foundational (800 Hrs / yr)	Pre-School (3 years)		0.1x3	27x3=81	8.1	




CURRICULUM AND CREDIT FRAMEWORK FOR UNDERGRADUATE PROGRAMMES



UNIVERSITY GRANTS COMMISSION

BAHADUR SHAH ZAFAR MARG,
NEW DELHI – 110002



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This component will include participation in activities related to National Service Scheme (NCC), National Cadet Corps (NCC), adult education/literacy initiatives, mentoring school students, and other similar activities.

5.2. Levels of Courses:

Courses shall be coded based on the learning outcomes, level of difficulty, and academic rigor. The coding structure is as follows:

- i. **0-99: Pre-requisite courses** required to undertake an introductory course which will be a pass or fail course with no credits. It will replace the existing informal way of offering bridge courses that are conducted in some of the colleges/ universities.
- ii. **100-199: Foundation or introductory courses** that are intended for students to gain an understanding and basic knowledge about the subjects and help decide the subject or discipline of interest. These courses may also be prerequisites for courses in the major subject. These courses generally would focus on foundational theories, concepts, perspectives, principles, methods, and procedures of critical thinking in order to provide a broad basis for taking up more advanced courses. These courses seek to equip students with the general education needed for advanced study, expose students to the breadth of different fields of study; provide a foundation for specialized higher-level coursework; acquaint students with the breadth of (inter) disciplinary fields in the arts, humanities, social sciences, and natural sciences, and to the historical and contemporary assumptions and practices of vocational or professional fields; and to lay the foundation for higher-level coursework.
- iii. **200-299: Intermediate-level courses** including subject-specific courses intended to meet the credit requirements for minor or major areas of learning. These courses can be part of a major and can be pre-requisite courses for advanced-level major courses.
- iv. **300-399: Higher-level courses** which are required for majoring in a disciplinary/interdisciplinary area of study for the award of a degree.
- v. **400-499: Advanced courses** which would include lecture courses with practicum, seminar-based course, term papers, research methodology, advanced laboratory experiments/software training, research projects, hands-on-training, internship/apprenticeship projects at the undergraduate level or First year Post-graduate theoretical and practical courses.

- vi. **500-599:** Courses at first-year Master's degree level for a 2-year Master's degree programme
- vii. **600-699:** Courses for second-year of 2-year Master's or 1-year Master's degree programme
- viii. **700 -799 & above:** Courses limited to doctoral students.

5.3. Programme/ Curricular components

The undergraduate programme seeks to equip students with the capacities in fields across arts, humanities, languages, natural sciences, and social sciences; an ethic of social engagement; soft skills such as complex problem solving, critical thinking, creative thinking, and communication skills, along with rigorous specialization in a chosen disciplinary or interdisciplinary major and minor(s).

Semesters 1 & 2: The students will undergo courses in 4 broad disciplines (major stream, minor stream, 2 broad disciplines (multidisciplinary category) to have basic knowledge not only in major areas but also in two other disciplines broadly grouped under Natural and Physical Sciences, Mathematics, Statistics and Computer Applications, Library, Information and Media Sciences, Commerce and Management, and Social Sciences. With exposure to basic courses in four disciplines, a student can decide to continue the chosen major or change the major and minor areas of interest at the end of the second semester. Additionally, these students will also take up courses of their interest from Ability Enhancement (language), Skill Enhancement, and Value-Added categories.

Change of Major: Students can opt for a change of major within the broad discipline (Natural and Physical Sciences, Mathematical, Statistics, and Computational Sciences, Library, Information and Media Sciences, Commerce and Management, and Humanities and Social Sciences) at the end of the first year.

Additional Seats: The HEIs may create 10% additional seats over and above the sanctioned strength to accommodate the request for a change of major. Any unfilled or vacant seats may be filled with those seeking a change of Major. Preference will be given to those who have got highest CGPA with no arrears in the first year.

Semesters 3 & 4: Students will choose courses of their interest in major and minor to build a career of their interest. They also pursue courses to strengthen their language skills and other skill-augmenting courses and vocational training.

Semesters 5 & 6: Students will undergo higher level courses and related courses during the 5th and 6th semesters in order to gain in-depth knowledge in the major and also in the

related disciplines through the minor stream. Students will also gain work-related skills through courses in vocational education. The programme structure will enable the students to gain sufficient knowledge and skills to meet the industry/society requirements.

Semesters 7 & 8: During the 4th and final year, students will undertake advanced level courses in both major and minor streams to get a UG Degree (Honours). Students choose a research component with courses relating to research methodology, advanced courses in theory and applied areas, and seminar presentations. Students may be permitted to carry out a research project or dissertation in another department of the same institution or another institution provided the required facilities are available.

5.4 Structure of the UG Programme

Table 3: The Semester-wise and Broad Course Category-wise Distribution of credits of the Undergraduate Programme:

Semester	Discipline Specific Courses - Core	Minor	Inter-disciplinary courses	Ability Enhancement courses (language)	Skill Enhancement courses /Internship /Dissertation	Common Value-Added Courses	Total Credits
I	(100 level)	(100 Level)	(1 course)	1 course)	(1 course)	(1 or 2 courses)	20
II	(100 level)	(100 Level)	(1 course)	(1 course)	(1 course)	(1 or 2 courses)	20
Students exiting the programme after securing 40 credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure 4 credits in work based vocational courses offered during summer term or internship / Apprenticeship in addition to 6 credits from skill-based courses earned during first and second semester.							40
III	(200 level)	(200 & above)	(1 course)	(1 course)	(1 course)	-	20
IV	(200 level)	(200 & above)	-	(1 course)	-		20
Students exiting the programme after securing 80 credits will be awarded UG Diploma in the relevant Discipline /Subject provided they secure additional 4 credit in skill based vocational courses offered during first year or second year summer term.							80
V	(300 Level)	(200 & above)	-	-	(Internship)	-	20
VI	(300 Level)	(200 & above)	-	-	-	-	20
Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline /Subject upon securing 120 credits							120
VII	(400 Level)	(300 & above)	-		-	-	20
VIII	(400 Level)	(300 & above)	-		(Research Project/ Dissertation)		20
Students will be awarded UG Degree (Honours) with Research in the relevant							160

Note:

- i. Only the minimum total number of credits in each semester is indicated above. The HEIs may decide the number of credits for each course (e.g. Major, Minor, Multidisciplinary, etc.) to fulfill the minimum number of credit requirements.
- ii. Students may be permitted to audit course(s) of their choice offered by the HEI provided they meet the pre-requisite for the course.
- iii. Minor stream courses can be from the 3rd 300 or above level and 50% of the total credits from minors must be secured in the relevant subject/discipline and another 50% of the total credits from a minor can be earned from any discipline as per students' choice.
- iv. Students are not allowed to take the same courses studied in the 12th class under the interdisciplinary category.
- v. 40% of the credits in any category may be earned through online courses approved by the Department and Institution as per the existing UGC regulations.
- vi. VIII-Semester core major may be seminar-based with students' presentations and discussions.
- vii. Students may be encouraged to enroll in activities such as NSS / NCC.

6.0. Pedagogical approaches

The *Learning Outcomes-Based Approach* to curriculum planning and transaction requires that the pedagogical approaches are oriented towards enabling students to attain the defined learning outcomes relating to the courses within a programme. The outcome-based approach, particularly in the context of undergraduate studies, requires a significant shift from teacher-centric to learner-centric pedagogies, and from passive to active/participatory pedagogies. Every programme of study lends itself to the well-structured and sequenced acquisition of knowledge and skills. Practical skills, including an appreciation of the link between theory and practice, will constitute an important aspect of the teaching-learning process. Teaching methods, guided by such a framework, may include lectures supported by tutorial work; practicum and field-based learning; the use of prescribed textbooks and e-learning resources and other self-study materials; field-based learning/project, open-ended project work, some of which may be team-based; activities designed to promote the development of generic/transferrable and subject-specific skills; and internship and visits to field sites, and industrial or other research facilities etc.

$$\text{CGPA} = 6.73 \quad (21 \times 6.9 + 22 \times 7.8 + 25 \times 5.6 + 26 \times 6.0 + 26 \times 6.3 + 25 \times 8.0)/145$$

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

Transcript (Format): Based on the above recommendations on Letter grades, grade points and SGPA and CCPA, the HEIs may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

Note : Students who have already enrolled and are pursuing UG programme as per Choice Based Credit System (CBCS) are eligible to pursue 4-year undergraduate programme and the university concerned may provide bridge courses (including online courses) to enable them for transition to CCFUGP.



ज्ञान-विज्ञान विमुक्तये

सचिव

Secretary



सत्यमेव जयते

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P. K. Thakur

New Delhi,
7th December, 2022

Standard Operating Procedure Implementation of National Education Policy-2020 Gujarat State



(Higher Education Institutions of Gujarat)

July 2023

**EDUCATION DEPARTMENT
Government of Gujarat**

आ नो भद्राः क्रतवो यन्तु विश्वतः



GOVERNMENT OF GUJARAT



Standard Operating Procedure Implementation of National Education Policy-2020 Gujarat State

(Higher Education Institutions of Gujarat)

July 2023

आ नो भद्राः क्रतवो यन्तु विश्वतः

Generic learning outcomes	<ul style="list-style-type: none"> • Listen carefully, able to read texts related to the chosen fields of study analytically, and present information in a clear and concise manner to different groups/ audiences. • Able to express thoughts and ideas effectively • Able to gather and interpret relevant quantitative and qualitative data to identify problems • Able to make judgment and take decisions, based on analysis of data and evidence • Acquired critical and analytical thinking, creativity, communication skills, learning and research skills to solve the complex problems
Constitutional, humanistic, ethical, and moral values	<ul style="list-style-type: none"> • Able to adopt constitutional, humanistic, ethical, and moral values in one's life, and practice these values in real-life situations
Employability and job ready skills, and entrepreneurship skills and capabilities/ qualities and mindset	<ul style="list-style-type: none"> • Acquired knowledge and essential skills required to perform a task effectively in a defined job environment, relevant to chosen fields of study

3.8 Levels of Courses and Course Coding

Courses will be assigned codes based on their learning outcomes, level of difficulty, and academic rigor. The course coding structure may follow these guidelines:

Table 13

Coding	Level of Courses	Contents Inclusion
0-99	Pre-requisite Courses	An introductory level courses with no credits. It will be required to offer bridge course.
100-199	Foundation or introductory courses	Required to gain an understanding and basic knowledge about the subjects and help decide the subject or discipline of interest. These courses may also be prerequisites for courses in the major subject. These courses generally would focus on foundational theories, concepts, perspectives, principles, methods, and procedures of critical thinking to provide a broad basis for taking up more advanced courses. Mostly these codes used for short term courses.
200-299	Intermediate-level courses	These courses are subject-specific courses intended to meet the credit requirements for minor or major areas of learning. This code required for First and Second year course of Undergraduate Degree.

300-399	Higher-level courses	These courses are required for majoring in a disciplinary/interdisciplinary area of study to award of a degree. This code required for Third year course of Undergraduate Degree. Minor course would also be offered form this level or above course.
400-499	Advanced Courses	These courses would include lecture courses with practicum, seminar-based course, term papers, research methodology, advanced laboratory experiments/software training, research projects, hands-on-training, internship/ apprenticeship/ OJT projects at the fourth year undergraduate level.
500-599	Advanced Courses	Courses required at first year master's degree level for a 2-year Master's degree programme
600-699	Advanced Courses	Courses required for second year of 2-year master's or 1-year Master's degree programme
700-799	Advanced Courses	Courses limited to Doctoral Level

Nomenclature of Course Code:

Coding will be in combination of Four letters and Four digits

A. First and Second Letter of Major/Minor:

- This reflects first two letters of the programme's name (Chemistry-CH, Hindi- HI, Sanskrit-SA, Economics- EC, Information Technology- IT).
- If name of any programme is combined with 'AND' then take initial first letter & first letter after 'AND'. i.e., for Commerce and Management, coding will be 'CM')
- If first two letter of two or more different courses are same, then take subsequent unmatched letter for different course. For example, History- HI, Hindi- HN

Third letter of Major/Minor: This reflects category of the course (Major- M, Elective-E)

Category	Name of the Programme	Coding
Major or Core	Chemistry	CHM
	Economics	ECM
	Information Technology	ITM
Minor or Elective	Chemistry	CHE
	Economics	ECE
	Information Technology	ITE

B. First, Second and Third Letter of Other Courses: This reflects the abbreviation of the categories

Category	Course Name	Coding
Multidisciplinary Course	Cyber Hygiene	MDC
Ability Enhancement Course	English and Communication Skill	AEC
Skill Enhancement Course	Personality Development	SEC
Value Added Course	Personality Development	VAC
Indian Knowledge System	Indian Music	IKS

- **Three Digit Number:** This reflects the level of courses
- **Fourth digit:** Fourth digit reflects the year of study (1-First, 2-Second, 3-Third, 4-Fourth)
- **Last Letter:** Last letter reflects the mode of study (C- Campus, O-Online)

An illustration of Course Coding:

Sr. No	Category	Programme Name	Course Code
01	Major Course	Physics	PHM201-1C
02	Major Course	Sanskrit	SAM203-1C
03	Major Course	Economics	ECM321-3C
04	Minor Course	Commerce	COE211-2C
05	Minor Course	Chemistry	CHE301-3C
06	Minor Course	Gujarati	GUE402-4C
07	Multidisciplinary Course	Cyber Hygiene	MDC201-2C
08	Ability Enhancement Course	English and Communication Skill	AEC201-1O
09	Skills Enhancement Course	Personality Development	SEC233-2C
10	Value Added Course	Personality Development	VAC214-2O
11	Indian Knowledge System	Indian Music	IKS216-1C

3.8.1 Course Contents and Pedagogy-based Learning

It is advisable for Higher Education Institutions (HEIs) to independently develop and prepare course content for all programmes while considering the intended learning outcomes. The course content should align with the requirements of theory, tutorials, practical sessions, and field visits.

For instance, let's consider the 1st semester of a B.Sc. in Physics as an example. According to the defined credit structure, students can choose two major subjects in Physics, allocating 4 credits each to Mechanics and Electricity and Magnetism. The course contents can be designed as follows: