



## KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON (NAAC Re- Accordand 'A' Oracle University) Faculty of Commerce and Management

Structure B. Com. Programme
T.Y.B.Com

(W.e.f. 2020-21)

Sr. No	Objectives		Third Year B.Com Semester (V) (W.e.f. June-2020-21)		
1					
_	Local Language				
II	CORE COMPETENCE	501	Indian Economic Scenario		
	* Improving Economic Understanding & Capacity of Analysis * Preparing for facing the real Business World by Developing Necessary Skills in the Subject	502	Principles of auditing		
		503	Business Management		
		504	Income Tax		
		505	Elective (Any One)*		
			a) Human Resource Management		
			b) Introduction to Business Research		
	in the Subject		c) Economics of Global Trade and Finance		
Ш	APPLIED COMPONENT		506) & 507) Elective (Any One Group)**		
	Developing Skills for Applying Knowledge to Business Situations		<ul> <li>a) Advanced Accountancy I &amp; II</li> <li>b) Advanced Cost &amp; Management Accounting I &amp; II</li> <li>c) Advanced Banking I &amp; II</li> <li>d) Business Administration I &amp; II</li> </ul>		

Sr. No	Objectives	Paper No.	Third Year B.Com Semester (VI) (W.e.f. June-2020-21)
I	LANGUAGE COMPETENCE International Link Language:		
	Local Language		
II	CORE COMPETENCE	601	Indian Economic Scenario
••	* Improving Economic Understanding & Capacity of Analysis  * Preparing for facing the real Business World by Developing Necessary Skills	602	Principles of Auditing
		603	Business Management
		604	Goods and Service Tax (G S T)
		605	Elective (Any One)*
			a) Human Resource Management
			b) Introduction to Business Research (Project)
	in the Subject		c) Economics of Global Trade and Finance
III	APPLIED COMPONENT		606) & 607) Elective (Any One Group)**
	Developing Skills for		a) Advanced Accountancy I & II
	Applying Knowledge to		b) Advanced Cost & Management Accounting I & II
	Business Situations		c) Advanced Banking I & II
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# Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaaon (NAAC Rescutedited 'A' Grade University)

#### FACULTY OF COMMERCE & MANAGEMENT

Structure B. Com. Programme (S.Y.B COM.) w.e.f.-2019-20

Sr. No	Course Opted	Paper No.	Second Year B.Com Semester (III) (w.e.f2019-20)	
	Core Elective	301	Business Skills	
	CC - I	302	Macro Economics	
	CC - II	303	Business & Tax Laws	
	CC - IV CC - V	304	Corporate Accounting	
		305	Computing Management	
		306	Elective (Any One)*	
			a) Business Entrepreneurship	
	L		b) Consumer Protection & Business Ethics	
			c) Financial Services & Stock Markets	
	SEC -1	307	Elective (Any One)*	
	Size = 1		a) Modern Banking & Financial System. b) Corporate Regulatory Frame Work c) Retail Management d) Business Statistics & Operation Research e) Production Management	

Sr. No	Course Opted	Paper No.	Second Year B.Com Semester (IV) (w.e.f2019-20)		
	Core Elective	401	Business Skills		
F	CC-1	402 Macro Economics			
- 1	CC - II	403	Business & Tax Laws		
- 1	CC - III CC-IV CC-V	404	Corporate Accounting		
		405	Cost Accounting		
•		406	Elective (Any One)*		
- 1			a) Business Entrepreneurship		
			b) Consumer Protection & Business Ethics		
			c) Financial Services & Stock Markets		
-	SEC - II	407	Elective (Any One)*		
	SLC II		a) Modern Banking & Financial System.     b) Corporate Regulatory Frame Work     c) Retail Management     d) Business Statistics & Operation Research     e) Production Management		

General Knowledge-Non credit course



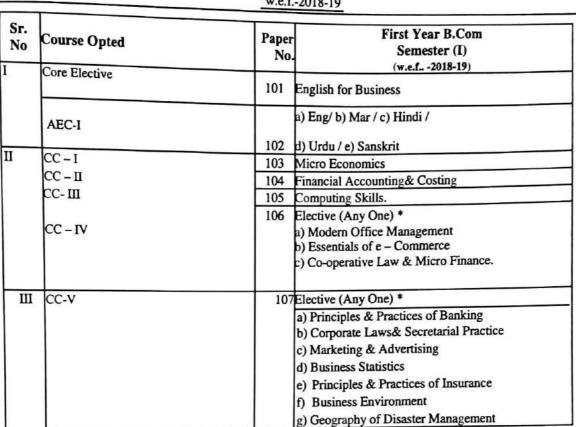
# North Maharashtra University, Jalgaon (NAAC Reaccredited 'A' Grade University)

## FACULTY OF COMMERCE & MANAGEMENT

Structure B. Com. Programme

(F. Y.B COM.)





Sr. No	Course Opted	Paper No.	
I	Core Elective	201	English for Business
	AEC – II		a) Eng / b) Mar / c) Hindi / d) Urdu / e) Sanskrit
П	CC - I	203	Micro Economics
п	CC-II	204	Financial Accounting& Costing
	сс-ш	205	Quantitative Techniques
	CC - IV	206	Elective (Any One) *
		1	a) Modern Office Management
			b) Essentials of e-Commerce
			c) Co-operative Law & Micro Finance.
Ш	CC – V	207	Elective (Any One) *
			a) Principles & Practices of Banking
			b) Corporate Laws& Secretarial Practice
			c) Marketing & Advertising
			d) Business Statistics
			e) Principles & Practices of Insurance
			f) Business Environment
			g) Geography of Disaster Management

ALIESTEL

Environmental Studies - credit course - two (2) credit





## KAVIYATRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

**FACULTY OF HUMANITIES** 

**Choice Based Credit System** 

THIRD YEAR BACHELOR OF ARTS (TYBA): ENGLISH

SEMISTER V and VI

(W.E.F. 2020-2021)

ATTESTED

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### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON.

## FACULTY OF HUMANITIES

Structure of T. Y. B. A. (ENGLISH)

Under CBCS Pattern (2020 - 2021)

Semester	Discipline Specific CoreCourse DSC	Ability Enhancement Compulsory Courses_AEC	Skill Enhancement Course SEC	Discipline Specific Elective Courses DSE DSE 3 A (03)	Generic ElectiveGE
V Credits: 28 (10 Papers)	MIL 3 (03) DSC 1 E (03) DSC 2 E (03) DSC 3 E (03)	English Communication (02)	SEC 3 (02)	DSE 4 A (03)	(from Language Group) GE 2 A (03) (from Social Sci. Group)
VI Credits: 28 (10 Papers)	MIL 4 (03) DSC 1 F (03) DSC 2 F (03) DSC 3 F (03)	English Communication (02)	SEC 4 (02)	DSE 3 B (03) DSE 4 B (03)	GE 1 B (03) (from Language Group) GE 2 B (03) (from Social Sci. Group)

#### Title of Courses:

SEM V & VI

Discipline Specific Core Course DSC:

MIL: MIL 3 & 4 (Compulsory Course) (Marathi/Hindi/Sanskrit/Urdu/Pali/Aradhamagadhi)

DSC 1 (E & F) ENG: Indian Writing in English

DSC 2 (E & F): General Paper DSC 3 (E & F): General Paper

AEC: Developing Communication Skills

SEC 3&4: Skill Enhancement Course

DSE 3 ENG A & B: Twentieth Century English Literature

DSE 4 ENG A & B: The Study of English Language

Generic Elective:

GE 1(A) and (B): Film and Literature (This course is compulsory for BA English Program) Choose any one group from social sciences generic elective available in the institute\*:

Economics GE 2 (A): Indian Economic Scenario -I

GE 2 (B): Indian Economic Scenario-II

Geography GE 2 (A): Disaster management

GE 2 (B): Sustainability and Development

Political Science GE 2 (A): Indian Civil Services

GE 2 (B): Management and Good Governance

Mahahma Galidhi Shikshan Mandal's Ada Colonge & Commerce College, Chopga Tal-Chopda Dist-Jaldaon(M.S.)

#### Note:

- Ability Enhancement Course (AEC) English Communication: This is a
  compulsory study paper. It is mandatory for every student entering the third year to
  study this course.
- Modern Indian Languages (MIL): This is a compulsory study paper. It is mandatory
  for every student entering the third year to choose a study paper in MIL in any one of
  the language subjects taught in the college out of Marathi, Hindi, Sanskrit, Pall,
  Ardhamagadhi, Urdu.
- DSE 3 and DSE 4: In case of selection of English as special subject, it is mandatory
  to select one of the three study papers in DSC English subject (literary or applied).
- DSC The other two study papers in DSC can be selected from any other two different subjects. It is mandatory to select skill-based study papers of any subject available in the college in SEC.
- It is mandatory to select a total of two interdisciplinary courses in each of the two subjects as mentioned below available in the college in GE. For this, from the group of 'Language' subjects (group of GE language subjects English, Marathi, Hindi, Sanskrit, Urdu, Pali, Ardhamagadhi) from the interdisciplinary study paper of one subject and from the group of 'Social Science' subjects (group of GE social sciences subjects political science, history, sociology, Geography, Economics, Conservation, Psychology, Philosophy, Social Work etc.) The students have to choose two such interdisciplinary study papers one from languages group and other from social sciences.\*







## Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

# ECONOMICS (HUMANITIES)

With effect from June 2020

Revised syllabus for T.Y.B.A. (V and VI Sem.)

Semester Pattern

CHOICE BASED CREDIT SYSTEM (CBCS)
Under Graduate Programme (U.G. Course)
(60:40 PATTERN)
W.e.f. June-2020



ATTESTER

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

The state Governor State and Mandal's After Science & Commerce College, Chopda Tal Chepita Distalgaon(M.S.)

# FACULTY OF HUMANITIES- STRUCTURE OF T.Y.B.A. UNDER C.B.C.S. PATTERN

w.e.f. June 2020 SUBJECT : ECONOMICS

Semester/ Credit	Discipline specific Core Course (DSC)	Ability Enhancement Compulsory	Skill Enhancement Course (SEC)	Discipline specific Elective Courses (DSE)	Generic Elective (GE)
VI Sem Credit : 28 (10 Papers)	MIL 4 (03) DSC 1 (F) (03) Eco 361 General Paper (Indian Economy Since 1980- IV) DSC 2 F- (03) General Paper DSC 3 F (03) General Paper	Course (AEC) English Communica tion (02)	SEC 4 (02) Eco-364 Indian Financial market	DSE 3 (B) (03) (S3) Eco-362 (A) Economics of Public Finance II OR DSE 3 (B) (03) (S3) Eco-362 (B) Industrial Economics –II OR DSE 3 (B) (03)(S3)Eco-362 (C) Statistics for Economics II  DEC 4 (B)(03) (S4) Eco-363 (A) Theory of International Trade & Practices –II OR DEC 4 (B) (03) (S4) Eco-363 (B) Economic Development & Growth -II	GE 1 (A) (03) GE 2 (B) (03) Eco- 365 Indian Economic Environment II

- AEC- English Communication is Compulsory Paper. It is mandatory to each students admitted in third year.
- MIL is also a compulsory paper. A student has to obtain one paper from Marathi, Hindi, Sanskrit, Urdu,
   Ardhmagdhi etc.
- DSE-3 and 4 are the papers at specialization level. DSE-3 paper should be one from A, B or C and DSE-4 paper should be one from A and B. These are S-3 & S4 papers.
- DSC 1, 2 and 3 are general papers. Among them, DSC-1 is general Economics paper and DSC-2 and DSC-3 are the two general paper already selected at SYBA level.
- SEC is a skill based paper. One paper should be selected among the papers taught in the Institute.
- GE is a Generic Elective paper. Two papers should be selected among the papers taught in the Institute.



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# FACULTY OF HUMANITIES- STRUCTURE OF T.Y.B.A. UNDER C.B.C.S. PATTERN

w.e.f. June 2020 SUBJECT : ECONOMICS

Semester/ Credit	Discipline specific Core Course (DSC)  MIL 3 (03)	Ability Enhanceme nt Compulsory Course (AEC) English	Skill Enhancement (SEC)  SEC 3 Eco-	Discipline specific Elective Course (DSE)	Generic Elective (GE)
Credit: 28 (10 Papers)	DSC 1 (E) (03) Eco 351 General Paper (Indian Economy Since 1980- III) DSC 2 E- (03) General Paper DSC 3 E (03) General Paper	Communication (02)	Modern Banking	(S3) Eco-352 (A) Economics of Public Finance I OR DSE 3 (A) (03) (S3) Eco-352 (B) Industrial Economics –I OR DSE 3 (A) (03) (S3) Eco-352 (C) Statistics for Economics I  DSE 4 (A) (03) (S4) Eco-353 (A) Theory of International Trade & Practices –I OR DSE 4 (A)(03) (S4) Eco-353 (B) Economic Development & Growth -I	GE 2 (A) (03) Eco- 355 Indian Economic Environment I



## Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



**Choice Based Credit System (CBCS)** 

Syllabus for T.Y.B. A. (Geography)

(Under the Faculty of Science and Technology)

(Since 2020-2021)

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# Details of CBCS Structure for T.Y.B.A Geography (With Effect from June 2020)

Subject Code	Semester	Title of Subject	CBCS Structure Code	Credit Point	Total Clock Hours
Gg.351	V	Environmental Geography	DSC 1E	03	45
(G-3) Gg . 361	VI	Population Geography	DSC 1F	03	45
(G-3) Gg. 352 (S-3)	٧	Economic Geography	DSE 3A	03	45
Gg. 362 (S-3)	VI	Political Geography	DSE 3B	03	45
Gg. 353 (S-4)	<b>V</b>	Practical in Human Geography and Geo- statistics	DSE 4A	03	90
Gg. 363 (S-4)	۷i	Practical in Physical Geography	DSE 4B	03	90
Gg. 354 ( SEC of Geography	V	Field Technique and Introduction to Project Report	SEC 3	02	30
Gg. 364 (SEC of Geography	VI	Geographical Information System	SEC 4	02	30
Gg. 355 ( GE of Geography)	V	Disaster Risk Reduction	GE 1A	03	45
Gg.365 ( GE of Geography	VI	Sustainability And Development	GE 1B	03	45

Weightages of M	<b>Iarks</b>
University Assessment	60
College Assessment	40
Total Marks	100



## ।। अंतरी पेटवू ज्ञानज्योत ।।



# कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विश्वविद्यालय, जलगाँव

मानविकी विद्याशाखा

Choice Based Credit System रूचि आधारित साख पध्दित पाठ्यक्रम

बी. ए. तृतीय वर्ष कला - हिंदी

पंचम एवं षष्ठ सत्र (V & VI Semester)

(w. e. f. June 2020)

ATTECTE

Chopda-425101 Dist-Jalgaon Ma

Mahatma Gandh Shasha Mandal's Art's, Science & Communication Chopda Tai-Clarge Company

## कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विश्वविद्यालय, जलगाँव बी. ए. तृतीय वर्ष कला हिंदी पाठ्यक्रम (CBCS) रूचि आधारित साख पद्धति

पंचम सत्र (V Semester)

Course Code Course Type  MIL III Hindi Discipline Specific Core Course (DSC)		Title of the Course	Credits	/ per semester	
		संपादन लेखन और साहित्य (मुद्रित माध्यम)	03	45	
DSC- E (A) Hindi	Discipline Specific Core Course (DSC)	विशेष विधा : यात्रा साहित्य	03	45	
	OR				
DSC- E (B) Hindi	Discipline Specific Core Course (DSC)	प्रयोजनमूलक हिंदी	03	45	
SEC-III Hindi	Skill Enhancement Course (SEC)	हिंदी व्याकरण तथा अभिव्यक्ति कौशल	02	30	
DSE-III (A) Hindi	Discipline Specific Elective Courses (DSE)	हिंदी साहित्य का इतिहास (आदिकाल, भक्तिकाल और रीतिकाल)	03	45	
DSE-IV (A) Hindi	Discipline Specific Elective Courses (DSE)	हिंदी भाषा का विकास	03	45	
GE-I (A) HINDI	Generic Elective (G.E)	हिंदी की राष्ट्रीय काव्यधारा	03	45	

### कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विश्वविद्यालय, जलगाँव बी. ए. तृतीय वर्ष कला हिंदी पाठ्यक्रम (CBCS) रूचि आधारित साख पद्धति षष्ठ सत्र (VI Semester)

Course Code	Course Type	Title of the Course	Credits	Contact Hours
MIL IV HINDI	Discipline Specific Core Course (DSC)	हिंदी सिनेमा और साहित्य : (इलेक्ट्रॉनिक माध्यम)	03	per semester 45
DSC- F (A) Hindi	Discipline Specific Core Course (DSC)	विशेष विधा : भारतीय संत काव्य	03	45
	OR	वैकल्पिक पाठ्यक्रम		
DSC- F (B) Hindi	Discipline Specific Core Course (DSC)	प्रयोजनमूलक हिंदी	03	45
SEC-IV Hindi	Skill Enhancement Course (SEC)	हिंदी <b>भाषा का</b> मानकीकरण और अशुद्धि शोधन	02	30
DSE-III (B) Hindi	Discipline Specific Elective Courses (DSE)	हिंदी साहित्य का इतिहास (आधुनिक काल)	03	45
OSE-IV (B) Hindi	Discipline Specific Elective Courses (DSE)	भाषा विज्ञान	03	45
GE-I (B) HINDI	Generic Elective (G.E)	खानदेश का लोक साहित्य	03	45





## कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

मानवविज्ञान विद्याशाखा **Choice Based Credit System** तृतीय वर्ष कला - मराठी सत्र पाचवे व सहावे (शैक्षणिक वर्ष 2020 - 2021 पासून लागू)

> DSC मराठी : वाङ्मयीन मराठी विशिष्ट वाङ्मयप्रकारांचा अभ्यास सत्र पाचवे

DSC मराठी E : एकांकिका लेखनाचा अभ्यास

सत्र सहावे

DSC मराठी F: ललित गद्य लेखनाचा अभ्यास

किंवा

पर्यायी अभ्यासपत्रिका

DSC मराठी : उपयोजित मराठी

व्यवसायाभिमुख लेखनासाठी मराठी

सत्र पाचवे

DSC मराठी E: व्यवसायाभिमुख लेखनासाठी मराठी

सत्र सहावे

 $\mathbf{DSC}$  मराठी  $\mathbf{F}$ : व्यवसायाभिमुख लेखनासाठी मराठी

DSE 3 मराठी : मध्ययुगीन मराठी वाङ्मयाचा इतिहास

सत्र पाचवे

DSE 3 मराठी A: मध्ययुगीन मराठी वाङ्मयाचा इतिहास

सत्र सहावे

DSE 3 मराठी B : मध्ययुगीन मराठी वाङ्मयाचा इतिहास ATTESTED

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DSE 4 मराठी : मराठीचा भाषिक अभ्यास सत्र पाचवे

DSE 4 मराठी A : मराठीचा भाषिक अभ्यास सत्र सहावे

DSE 4 मराठी B : मराठीचा भाषिक अभ्यास

GE मराठी : मराठी लोकरंगभूमी सत्र पाचवे

GE मराठी A: मराठी लोकरंगभूमी सत्र सहावे

GE मराठी B: मराठी लोकरंगभूमी

MIL मराठी : माध्यमांसाठी लेखन व संवाद सत्र पाचवे

MIL मराठी 3 : हक्-श्राव्य माध्यमांसाठी लेखन व संवाद सत्र सहावे

MIL मराठी 4: आधुनिक समाजमाध्यमांसाठी लेखन व संवाद

SEC मराठी : लेखनकौशल्ये

सत्र पाचवे

SEC मराठी 3: लेखनकौशल्य - निबंधलेखन

सत्र सहावे

SEC मराठी 4: लेखनकौशल्य - ग्रंथपरीक्षण लेखन

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## <u>Kavayitri Bahinabai Chaudhari</u> North Maharashtra University, Jalgaon

## Structure of T. Y. B. A. (Faculty of Humanities) Under CBCS Pattern (2020 - 2021)

Semester	<u>Discipline Specific Core</u> <u>Course</u> DSC	Ability Enhancement Compulsory Courses AEC	Skill Enhancement Course SEC	Discipline Specific Elective Courses DSE	Generic Elective GE
Credits: 28 (10 Papers)	MIL 3 (03) DSC 1 E (03) – Marathi G - 3 DSC 2 E (03) DSC 3 E (03)	English Communication (02)	SEC 3 (02) – Marathi	DSE 3 A (03) - Marathi S - 3 DSE 4 A (03) - Marathi S - 4	GE 1 A (03) - Marathi GE 2 A (03)
VI Credits: 28 (10 Papers)	MIL 4 (03) DSC 1 F (03) – Marathi G - 3 DSC 2 F (03) DSC 3 F (03)	English Communication (02)	SEC 4 (02) – Marathi	DSE 3 B (03) - Marathi S - 3 DSE 4 B (03) - Marathi S - 4	GE 1 B (03) - Marathi GE 2 B (03)

- AEC English Communication ही अनिवार्य अभ्यासपत्रिका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विद्यार्थ्याने ही अभ्यासपत्रिका अभ्यासणे अनिवार्य आहे.
- MIL ही अनिवार्य अभ्यासपित्रका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विद्यार्थ्याने मराठी, हिंदी, संस्कृत, पाली, अर्धमागधी, उर्दू यांपैकी महाविद्यालयात शिकवल्या जाणाऱ्या कोणत्याही एका भाषा विषयाच्या MIL मधील अभ्यासपित्रकेची निवड करणे अनिवार्य आहे.
- DSE 3, 4 मध्ये मराठी विषयाच्या अभ्यासपत्रिकांची निवड केल्यास DSC मधील तीन अभ्यासपत्रिकांपैकी एक अभ्यासपत्रिका मराठी विषयाची निवडणे (वाङ्मयीन वा उपयोजित) अनिवार्य आहे.
- DSC मधील अन्य दोन अभ्यासपत्रिका अन्य कोणत्याही दोन भिन्न विषयांच्या निवडता येतील.
- SEC मध्ये महाविद्यालयात उपलब्ध असलेल्या कोणत्याही विषयाच्या कौशल्याधारित अभ्यासपत्रिकांची निवड करणे अनिवार्य आहे.
- GE मध्ये महाविद्यालयात विशेष स्तरावर उपलब्ध कोणत्याही दोन विषयांच्या प्रत्येकी एक अशा एकूण दोन आंतरविद्याशाखीय अभ्यापित्रकांची निवडणे अनिवार्य आहे. (उदा. GE मराठी आणि GE राज्यशास्त्र)



ATTESTED

3—A

PER 1 A PAL

Mahatma Gandhi Shiksaan Mandala

Art's Science & Con acroe College

Chopda Tal-Chopda Dist-Jalgaon(M.\$/)

## ।। अंतरी पेटव् ज्ञानज्योत।।

" A" Grade NAAC Re- Accredited

(3<sup>rd</sup> Cycle)



# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

**Revised Syllabus** 

For

**Political Science** 

(T.Y.B.A.)

**CBCS - Semester Pattern** 

(Choice Based Credit System)

Semester V & VI

Academic Year 2020-2021

Under the Faculty of Humanities.

K.B.C. North Maharashtra University , Jalgaon TESTEN



#### K.B.C.N.M.University, Jalgoan (M.S)

#### Structure of T.Y.B.A (Faculty of Humanities)

#### Under C.B.C.S. Pattern (2020 - 2021)

Sr. No	Semester	Discipline Specific Core Course DSC	Ability Enhancement Compulsory Courses AEC	Skill Enhancement Course SEC	Discipline Specific Elective Courses DSE	Generic Elective GE
1.	V Credits: 28 10 Papers [5 <sup>th</sup> Sem]	MIL 3 (03) DSC 1 E (03) (Pol.Sci G3) DSC 2 E (03) DSC 3 E (03)	English Communication (02)	SEC3 (02) Political Sci	DSE 3 A (03) Pol. Sci S-3 DSE 4 A (03) Pol. Sci S-4	GE 1 A (03) -Pol Sci GE 2 A (03)
2.	VI Credits: 28 10 Papers [6 <sup>th</sup> Sem]	MIL 4 (03) DSC 1 F (03) (Pol.Sci G3) DSC 2 F (03) DSC 3 F (03)	English Communication (02)	SEC4 (02) Political Sci	DSE 3 B (03) Pol. Sci S-3 DSE 4 B (03) Pol. Sci S-4	GE 1 B (03) -Pol Sci GE 2 B (03)

- AEC English Communication ही अनिवार्य अभ्यास पत्रिका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विध्यार्थाने ही अभ्यासपत्रिका अभ्यासणे अनिवार्य आहे.
- MIL ही अनिवार्य अभ्यास पत्रिका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विध्यार्थाने मराठी, हिंदी, संस्कृत, पाली, अर्धमागधी, उर्दू या पैकी महाविद्यालयात शिकवल्या जाणाऱ्या कोणत्याही एका भाषा विषयाच्या MIL मधील अभ्यास पत्रिकेची निवड करणे अनिवार्य आहे.
- DSE 3, 4 मध्ये राज्यशास्र विषयाची अभ्यासपत्रिकाची निवड केल्यास DSC मधील तीन अभयपत्रिका पैकी
   एक अभयपत्रिका राज्यशात्र विषयाची निवडणे अनिवार्य आहे.
  - DSC मधील अन्य दोन अभ्यासपत्रिका अन्य कोणत्याही दोन विषयांच्या निवडता येतील.
- SEC मध्ये महाविद्यालयात उपलब्ध असलेल्या कोणत्याही विषयाच्या कौशल्याधारित अभ्यासपत्रिकांची
   निवड करणे अनिवार्य आहे.
- GE मध्ये महाविद्यालयात विशेष स्तरावर उपलब्ध कोणत्याही दोन विषयांच्या प्रत्येकी एक अशा एकूण दोन आंतरविद्याशाखीय अभ्यास पत्रिकांची निवड करणे अनिवार्य आहे. (उदा. GE राज्यशास्त्र आणि GE मराठी).



ATTESTEM 30

PRINCIPAL
Mahatma Gord if Shikshan Manda
Art' - Shikshae & Controller College

10000 10 -Chapda Ust-Jalgaon/M 9 1

# || अंतरी पेटव् ज्ञानज्योत||

" A" Grade NAAC Re- Accredited

(3rd Cycle)



K.B.C. North Maharashtra University, Jalgoan (M.S)

Faculty of Humanities Syllabus under Choice-Based Credit System

Third Year Arts: Political Science

Semester: Fifth and Six (5 & 6)

[Since June 2020-2021 Academic Year]

DSC Political Science, Discipline Specific Care Course

Semester: 5

DSC 1 E Indian Political Thinker Part - I

Semester: 6

DSC 1 F Indian Political Thinker Part - II

DSE Pol. Sci, Discipline Specific Elective Course

Semester: 5

DSE 3A Western Political Thinker Part - I

Semester: 6

DSE 3B Western Political Thinker Part - II

Semester: 5

DSE 4A Political Sociology Part - I

Semester: 6

DSE 4B Political Sociology Part - II

G.E. Pol. Sci. Generic Elective (Interdisciplinary)

Semester: 5

G.E.1 A Indian Civil Services

Semester: 6

G.E.1 B Civil Services and Good Governance

SEC Pol. Sci Skill Enhancement Course

Semester: 5

SEC 3 Journalism and Mass Communication

Semester: 6

SEC 4 Political Journalism

ATTESTED 3-A

Mahalma Canaly Circhan Mandal's



#### KAVAYITRI BAHINABAI CHAUDHARI

### NORTH MAHARASHTRA UNIVERSITY, JALGAON.

# Structure of F. Y. B. A. (Faculty of Humanities) Under CBCS Pattern (2018-19)

Semester	Discipline Specific Core  Course DSC	Ability Enhancement Compulsory Courses AEC	Skill Enhancement Course SEC	Discipline Specific Elective Courses DSE	Generic Elective GE
I Credits: 18	1. Compulsory English (03) 2. DSC 1 A (03) 3. DSC 2 A (03) 4. DSC 3 A (03) 5. DSC 4 A (03) 6. DSC 5 A (03)				
II Credits: 18	1. Compulsory English (03) 2. DSC 1 B (03) 3. DSC 2 B (03) 4. DSC 3 B (03) 5. DSC 4 B (03) 6. DSC 5 B (03)				

	s for F. Y. B. A. (per Semester) cademic Year 2018 - 2019	Credits = Sem. I (18) + Sem. II (18) = 36
Compulsory Engli	sh	03
DSC 1	Any FIVE Core Papers from	05 papers of 03 Credits = 15
DSC 2	Faculty of Humanities (Arts)	
DSC 3	, ,	1
DSC 4		
DSC 5		

#### Notes -

- 1. DSC (Discipline Specific Core) Courses are open for Faculty of Humanities (Arts) only.
- 2. Compulsory English + 05 Core Papers = Total 06 Papers for F. Y. B. A. (Each paper of 03 Credits)
- 3. Examination Pattern for all papers is 60 + 40 = 100 (60 marks for Theory Examination and 40 marks for Internal Evaluation)

Date: 23/07/2018







## KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON.

## Structure of S.Y.B.A - Faculty of Humanities

Under the CBCS Pattern (2019-2020)

CBCS Pattern (w.e.f. June 2019)

Semester	Discipline specific core course DSC	Ability Enhanceme nt Compulsory Courses AEC	Skill Enhancement Course SEC	Discipline specific Elective Courses DSE	Generic Elective GE
III Credits: 20 (8 Papers)	Compulsory English (03) MIL 1 (03) DSC 1 C (02) DSC 2 C (02) DSC 3 C (02)		SEC 1 (02)	DSE 1 A (03) DSE 2 A (03)	
IV Credits : 22 (9 Papers)	Compulsory English (03) MIL 2 (03) DSC 1 D (02) DSC 2 D (02) DSC 3 D (02) DSC 4 D (02) *		SEC 2 (02)	DSE 1 B (03) DSE 2 B (03)	

\* In Sem. IV DSC - 4 D - Will be Minor Study Project of DSE - 1 - A and 2 B (Paper of special subjects)

\* General Knowledge: Non Credit Paper For Semester IV

\* विद्यार्थ्यांस ज्या विषयात M.A करावयाचे असेल त्यात बी.ए प्रथम, व्दितीय व तृतीय वर्ष मिळून

किमान 24 Credits प्राप्त करणे अनिवार्य आहे.

(Translation)

\* Those Students who are willing to pursue M.A. (PG) Should earn 24 Credits during BA first, Second & Third year







#### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON.

#### Structure of T. Y. B. A. (Faculty of Humanities) Under CBCS Pattern (2020 - 2021)

Semester	Discipline Specific CoreCourse DSC	Ability Enhancement Compulsory Courses_AEC	Skill Enhancement Course SEC	<u>Discipline</u> <u>Specific</u> <u>Elective</u> <u>Courses</u> DSE	<u>Generic</u> <u>Elective</u> GE
V Credits: 28 (10 Papers)	MIL 3 (03) DSC 1 E (03) DSC 2 E (03) DSC 3 E (03)	English Communication (02)	SEC 3 (02)	DSE 3 A (03) DSE 4 A (03)	GE 1 A (03) (from Language Group) GE 2 A (03) (from Social Sci. Group)
VI Credits: 28 (10 Papers)	MIL 4 (03) DSC 1 F (03) DSC 2 F (03) DSC 3 F (03)	English Communication (02)	SEC 4 (02)	DSE 3 B (03) DSE 4 B (03)	GE 1 B (03) (from Language Group) GE 2 B (03) (from Social Sci. Group)

- AEC English Communication ही अनिवार्य अभ्यासपित्रका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विद्यार्थ्याने ही अभ्यासपित्रका अभ्यासणे अनिवार्य आहे.
- MIL ही अनिवार्य अभ्यासपित्रका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विद्यार्थ्याने मराठी, हिंदी, संस्कृत, पाली, अर्धमागधी, उर्दू यांपैकी महाविद्यालयात शिकवल्या जाणाऱ्या कोणत्याही एका भाषा विषयाच्या MIL मधील अभ्यासपित्रकेची निवड करणे अनिवार्य आहे.
- DSE 3, 4 मध्ये मराठी विषयाच्या अभ्यासपत्रिकांची निवड केल्यास DSC मधील तीन अभ्यासपत्रिकांपैकी एक अभ्यासपत्रिका मराठी विषयाची निवडणे (वाङ्मयीन वा उपयोजित) अनिवार्य आहे.
- DSC मधील अन्य दोन अभ्यासपित्रका अन्य कोणत्याही दोन भिन्न विषयांच्या निवडता येतील. SEC मध्ये
  महाविद्यालयात उपलब्ध असलेल्या कोणत्याही विषयाच्या कौशल्याधारित अभ्यासपित्रकांची निवड करणे
  अनिवार्य आहे.
- GE मध्ये महाविद्यालयात उपलब्ध खाली नमूद केल्याप्रमाणे दोन विषयांच्या प्रत्येकी एक अशा एकूण दोन आंतरिवद्याशाखीय अभ्यापित्रकांची निवड करणे अनिवार्य आहे. त्यासाठी 'भाषा' विषयांच्या गटातून (GE भाषा विषयांचा गट इंग्रजी, मराठी, हिंदी, संस्कृत, उर्दू, पाली, अर्धमागधी) एका विषयाच्या आंतरिवद्याशाखीय अभ्यासपित्रकेची आणि 'सामाजिक शास्त्र' विषयांच्या गटातून (GE सामाजिक शास्त्र विषयांचा गट राज्यशास्त्र, इतिहास, समाजशास्त्र, भूगोल, अर्थशास्त्र, संरक्षणशास्त्र, मानसशास्त्र, तत्त्वज्ञान, समाजकार्य आदी) एका विषयाच्या आंतरिवद्याशाखीय अभ्यासपित्रकेची अशी दोन अभ्यासपित्रकांची निवड विद्यार्थ्यांनी करायची आहे.

PE NETTAL

Mehatma Grudin Strushan Mandal's Art's Science & Commerce College Chopda Tal-Chopda Dist-Jalgaon (1...)

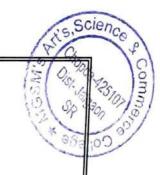
## (Translation)



- AEC English Communication is a compulsory course. It is mandatory for every student entering the third year to study this textbook.
- MIL is a compulsory study paper. It is mandatory for every student entering the third year
  to choose a study paper in MIL in any one of the language subjects taught in the college
  from Marathi, Hindi, Sanskrit, Pali, Ardhamagadhi, Urdu.
- In case of selection of study papers in Marathi subject in DSE 3, 4, it is mandatory to select one of the three study papers in DSC for Marathi subject (literary or applied).
- The other two study papers in DSC can be selected from any other two different subjects.
   It is mandatory to select skill based study papers of any subject available in the college in SEC.
- It is mandatory to select a total of two interdisciplinary curriculum for each of the two subjects as mentioned below available in the college in GE. For this, from the group of 'Language' subjects (group of GE language subjects English, Marathi, Hindi, Sanskrit, Urdu, Pali, Ardhamagadhi) from the interdisciplinary study paper of one subject and from the group of 'Social Science' subjects (group of GE social sciences subjects political science, history, sociology, Geography, Economics, Conservation, Psychology, Philosophy, Social Work etc.) The students have to choose two such inter-disciplinary study papers of the same subject.

ATTENTEN

PRINCIPAL
Mahatma Gandhi Shikshan Mandal's
Ari's, Science & Commerce College,
Chopda Tal-Chopda Dist-Jalgaon(M.S.)



# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



Proposed Structure of Syllabus for B.Sc.

T. Y. B. Sc. (ZOOLOGY)

Choice Based Credit System (CBCS)

2020-21





## Structure of curriculum of TYBSc (Zoology)

#### Semester V

Discipline	Course Type	Course Code	Course title	Credits	Hours/ week (Clock	Total Teaching hours	(To	rks otal 00)
					Hours)		CA	UA
Discipline Specific	Core 1	Zoo-501	Reproductive Endocrinology	3	3	45	40	60
Course DSC)	Core I	Zoo-502	Cell and Molecular Biology (CMB)	3	3	45	40	60
	Core III	Zoo-503	Mammalian Histology	3	3	45	40	60
	Core IV	Zoo-504	Animal Biotechnology	3	3	45	40	60
DSC Skill Enhancement Course [SEC]	Skill Based	Zoo-505	Public health and hygiene	3	3	45	40	60
DSC Elective Course	Elective Course (Any one)	Zoo- 506 (A) Zoo- 506 (B)	Pest Management Aquarium Fish Keeping	3	3	45	40	60
DSC	Core (Practical)	Zoo-507	Practical related to Zoo-501& Zoo502 (CB)	2	4 (Per batch)	60	40	60
		Zoo-508	to Zoo 502 (MB)& Zoo 503	2	4 (Per batch)	60	40	60
		Zoo-509	Practical related to Zoo504	2	4 (Per batch)	60	40	60
Non Credit	Elective audit	AC- 501A	NSS	No credit	2	30	100	-
Audit Course	(Any one)		NCC					
		AC- 501 C	Sports					



#### Structure of curriculum of TYBSc (Zoology)

#### Semester VI

Discipline	Course Type	Course Code	Course title	Credits	Week (Clock Hours)	Tot Teach hour	ing	1 3	Mark (Tota 100)
Discipline Specific	Core I	Zoo-601	Study of Leech &	2 3	3	45		40	6
Course(D SC)	Core I	Zoo-602		3	3	45		40	60
	Core III	Zoo-603	Applied Zoology	3	3	45		40	60
	Core IV	Zoo-604	Microtechnique	3	3	45		40	60
DSC Skill Enhance ment Course [SEC]	Skill Based	Zoo-605	Research Methodology	3	3	45		40	60
DSC Elective	Elective Course	Zoo- 606(A)	Bioinformatics	3	3	45	4	0	60
Course	(Any one)	Zoo- 606 (B)	Sericulture						
DSC	Core (Practical)	Zoo-607	Practical related to Zoo-601	2	4 (Per batch)	60	40	1	60
		Zoo-608	Practical related toZoo 602 & Zoo 603	2	4 (Per batch)	60	40	1	50
		Zoo-609	Practical related toZoo 604	2	4 (Per batch)	60	40	6	0
Non Credit	Elective audit	AC- 601 A	Soft skill	No credit	2	30	10	-	-
Audit Course	course (Any one)	AC- 601 B	Yoga				v		
		AC- 601 C	Practicing Cleanliness						

CA: Class assessment {Internal examination}; UA: University assessment

ATTESTED 3-A

PRINCIPAL

Mahalma Gandhi Shikshan Mandalis

Artis Science & Commerce College,
Chopda Tai-Chopas Dutido geon(M.S.)

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



**Syllabus** 

T.Y.B.Sc.

**Subject: Chemistry** 

**Choice Based Credit System** 

With Effect from June -2020

As Per U.G.C. Guidelines

Prepared By Board of Studies Chemistry,

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon







## **Syllabus**

Class- T.Y.B.Sc. Subject- Chemistry

## Choice Based Credit System (CBCS) (60-40) Pattern

#### with effect from June-2020

#### Structure of Curriculum of T.Y.B.Sc. (Chemistry)

#### Semester - V

Course Type	Course code	Course Title	Credits	Hours per week	Teaching Hours
Core I	CH - 501	Principles of Physical Chemistry-I	3	3	45
Core II	CH - 502	Inorganic Chemistry	3	3	45
Core III	CH - 503	Organic Reaction Mechanism	3	3	45
Core IV	CH – 504	Industrial Chemistry	3	3	45
Skill Enhancement (SEC)	CH - 505	Analytical Instrumentation	3	3	45
Elective	CH – 506 (A)	Biochemistry	3	3	45
(Any One)	CH – 506 (B)	Green Chemistry	3	3	45
Core course	CH - 507	Physical Chemistry Practical	2	4 (Per Batch)	60
(Practical)	CH - 508	Inorganic Chemistry Practical	2	4 (Per Batch)	60
	CH - 509	Organic Chemistry Practical	2	4 (Per Batch)	60
Non-Credit Audit Course	AC-510	NSS		2- Batches	60
(Any One)	AC-511	NCC	No Credit	2- Batches	60
	AC-512	Sports		2- Batches	60

#### Note:

- 1. Each lecture is of one hour (60 Minutes) duration.
- 2. Each theory paper has three lectures per week.
- 3. Each practical course has four lectures per week.
- An industrial study tour is compulsory for the T.Y.B.Sc. Students. The students should submit their tour reports at the time of practical examination of VI<sup>th</sup> Semester

Page 2 of 70

Choper Is Comment

- 5. Use of Chart/Text book/Hand book of practical is allowed during examination.
- 6. Scientific calculator (non-programmable) is allowed during theory and practical examination.
- 7. All units should be in SI unit.

#### Semester VI

Course Type	Course code	Course Title	Credit	Hours per week	Teaching Hours
Core I	CH – 601	Principles of Physical Chemistry-II	3	3	45
Core II	CH – 602	Chemistry of Inorganic Solids	3	3	45
Core III	CH – 603	Spectroscopic Methods of Structure Determination	3	3	45
Core IV	CH – 604	Chemistry of Industrially Important Products	3	3	45
Skill Enhancement	CH – 605	Analytical Techniques	3	3	45
Elective	CH - 606 (A)	Polymer Chemistry	3	3	45
(Any One)	CH – 606 (B)	Research Methodology for Chemistry	3	3	45
Core course (Practical)	CH – 607	Physical Chemistry Practical	2	4 (Per Batch)	60
	CH – 608	Inorganic Chemistry Practical	2	4 (Per Batch)	60
	CH – 609	Organic Chemistry Practical	2	4 (Per Batch)	60
Non-Credit Audit Course	AC-610	Soft Skill	No	2- Batches	60
(Any One)	AC-611	Yoga	Credit	2- Batches	60
	AC-612	Practicing Cleanliness		2- Batches	60

Note:

1. Each lecture is of one hour (60 Minutes) duration.

2. Each theory paper has three lectures per week.

3. Each practical course has four lectures per week.

3-1

Mahatma Ganoni Shikanan Mandets Art's, Science & Commerce College, Chopda Tal-Chopda Dist-Jalgaon, M.S.

## ॥ अंतरी पेटवू ज्ञानज्योत ॥ कवियात्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

## अभ्यास मंडळ विभाग

# FACULTY OF SCIENCE AND TECHNOLOGY

Structure B.Sc Programme CBCS pattern)

## F.Y.B.Sc

w.e.f - 2018-19

Semester	Con	re Courses	Ability enhancement compulsory course	Skill enhancement course	Discipline specific elective
One 1 (Total credits = _26_)	DSC -1 A (CREDIT 6) DSC -2 A (CREDIT 6)	PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PAPER 2 (CREDIT 2) PAPER 2 (CREDIT 2)	Engish/Marathi/Hindi/MIL Communication (CREDIT 2) or Environmental Science (CREDIT 2)		
	DSC - 4 A (CREDIT 6 )	PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2)			



ATTESTED

PENDITAL

## अभ्यास मंडळ विभाग

# FACULTY OF SCIENCE AND TECHNOLOGY

Structure B.Sc Programme CBCS pattern)

## F.Y.B.Sc

w.e.f - 2018-19

Semester	Core Courses		Ability enhancement compulsory course	Skill enhancement course	Discipline specific elective
Two II (Total credits = _26_)	DSC -1 B (CREDIT 6) DSC -2 B (CREDIT 6)	PAPER I (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PRACTICAL (CREDIT 2) PAPER I (CREDIT 2) PAPER 2 (CREDIT 2) PAPER 2 (CREDIT 2) PAPER 2 (CREDIT 2)	Environmental Science (CREDIT 2) or Engish/Marathi/Hindi/MIL Communication (CREDIT 2)		
	DSC - 4 B (CREDIT 6)	PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2)	-		

<sup>\*</sup>Students will choose 4 core courses (DSC - 1 to DSC - 4) each of credits Six.

\*b) AECC Environmental Science in another Semester in another Semester i.e at Semester II or Semester I.

<sup>\*</sup>a) Ability enhancement compulsory courses English / Marathi / Hindi / MIL can be chosen at Semester I or Semester II.





#### || अंतरी पेटवू ज्ञानज्योत ||

## कवित्री बहिणाबाई चौघरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

#### अभ्यास मंडळ विभाग

#### FACULTY OF SCIENCE AND TECHNOLOGY

(Structure B.Sc Programme CBCS pattern) (Revised)

S.Y.B.Sc

w.e.f - 2019-20

Semester		Core Courses	Ability enhancement compulsory course	Skill enhancemen t course	Discipline specific elective
III ( Three) ( Total credits = 22_)	DSC -1 C (CREDIT 6) DSC -2 C (CREDIT 6) DSC -3 C (CREDIT 6)	PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2)	Advance Communication Skill III (English/Marathi) (CREDIT 2) General knowledge Paper (Non Credit)	SEC - 1 (CREDIT 2)	
Semester		Core Courses	Ability enhancement compulsory course	Skill enhanceme nt course	Discipline specific elective
IV Four ( Total credits = 22_)	DSC -1 D (CREDIT 6) DSC -2 D (CREDIT 6) DSC -3 D (CREDIT 6)	PAPER I (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PRACTICAL (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 1 (CREDIT 2) PAPER 2 (CREDIT 2) PAPER 2 (CREDIT 2)	Advance Communication Skill IV (English/Marathi) (CREDIT 2)	SEC - II (CREDIT 2)	

- \*Students will choose 3 core courses out of 4 offered at first year.
- \*Students have to choose one skill enhancement course (SEC) related to any core subject they selected
- \*The skill enhancement course selected for semester-III and semester-IV should be related to same core subject.
- \*Students can do specialization in any subject at third year irrespective of the selected skill enhancement course at S.Y level.
- \*For fresh candidates assessment of non-credit course (General knowledge) will be at the end of fourth semester.
- \*One hour per week should be given to (Test & Tutorial) Internal evaluation for each paper.

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#### T. Y. B. Sc. Subject Name (CBCS Structure) Semester V and VI Preamble

#### Introduction

#### Scheme for B.Sc. Program (Faculty of Science and Technology)

		First Year				Second Year Th			Third Year			Total Credi		
1		Semester I		r I Semest		Semester III		Semester IV	Se	mester V	Semester VI		value	
	Cisre courses	Civillia	Charme	Credia	Courses	Challis	L'anne	Civellia	Courses	Civillia	Courses	Credits	Courses	
	(i)Theory	4	4	4	4	4	3	4	3					4X14=56
	(ii)Practical	2	4	3	4	2	. 3	2	3					2X14=28
2	Ability enhancement compulsory course (AECC)(2)	2	1	2	١	2	١	2	ı					2 X4 = 08
3	Skill Enhancement Course (SEC) (4)					2	1	2	1					2X 2 = 04
4	Discipline Specific CoreDSC													
	(i)Core I to IV									3	4	3	- 4	3X8=24
	(ii)Core (Practical)									2	3	2	3	2X6≈12
5	Skill Enhancement Course (SEC): Skill Based course									3	1	3	1	3 X 2 = 06
6	Elective Course (any one)									3	1	3	1	3 X 2 = 06
7	Elective Audit Course (out of 3)									None Credit	Any one	None Credit	Any	-
	Total Credit value (Credit x No .of Courses)	26 26		2	22 22		24		24		144			

**Learning Objectives** 

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## Structure of curriculum of T. Y. B. Sc. (Subject Name)

Semester V

	Course	Course Code	Course title	Credits	Hours/week (Clock	Total Teaching hours	(To	
					hours)	nours	100 CA	
DSC	Core I	XY-501		3	3	45	40	60
030	Core II	XY-502		3	3	45	40	60
	Core III	XY-503		3	3	45	40	60
	Core IV	XY-504		3	3	45	40	60
DSC Skill Enhanc ement Course (SEC)	Skill Based	XY-505		3	3	45	40	60
DSC Elective course	Elective Course (Any one)	XY-506 (A) XY-506 (B)		3	3	45	40	60
DSC	Core (Practical)	XY-507		2	4 (per batch)	60	40	60
		XY-508		2	4 (per batch)	60	40	60
		XY-509		2	4 (per batch)	60	40	60
Non Credit	Elective audit	AC-501 :		No credit	2	30	100	
Audit Course	course (Any one							
		AC-501 :	Sports					

Semester VI

	ester VI							
	Course Type	Course Code	е		Hours/week (Clock hours)	Total Teaching hours	Marks (Total 100)	
000	0	VV 601					CA	UA
DSC	Core I	XY-601		3	3	45	40	60
	Core II	XY-602		3	3	45	40	60
	Core III	XY-603		3	3	45	40	60
	Core IV	XY-604		3	3	45	40	60
DSC Skill Enhanc ement Course (SEC)	Skill Based	XY-605		3	3	45	40	60
DSC Elective Course (Any one)		XY-606 (A)		3	3	45	40	60
	XY-606 (B)							
	Core (Practical)	XY-607		2	4 (per batch)	60	40	60
		XY-608		2	4 (per batch)	60	40	60
		XY-609		2	4 (per batch)	60	40	60



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## Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



NAAC Re-Accredited (3rd Cycle)

Structure of Syllabus Program B. Sc.

T. Y. B. Sc. (Biotechnology)

**Choice Based Credit System (CBCS)** 

(2020-21)



## Structure of Curriculum of T.Y.B.Sc. (Biotechnology) Semester VI

		10000			Hours/ Week (Clock Hours)	Total Teaching hours	Mark	(S
Discipline	I THE RESERVE AND ADDRESS OF THE PARTY OF TH	Course Code	Course Title	Credits			CA	UA
DSC	Core I	BT-601	Recombinant DNA Technology	3	3	45	40	60
	Core II	BT-602	Plant Biotechnology	3	3	45	40	60
	Core III	BT-603	Immunology	3	3	45	40	60
	Core IV	BT-604	Bioprocess Technology	3	3	45	40	60
SEC	Skill Based	BT-605	Pharmaceutical Biotechnology	3	3	45	40	60
DSE	Elective	BT-606 A	Environmental Biotechnology-II	3	3	45	40	60
	(Anyone)	BT-606 B	Biostatistics					
DSC	(12,7-,	BT-607	Practical Course: Plant Biotechnology	2	4 / batch	60	40	60
	Core (Practical)	BT-608	Practical Course: Genetics and Bioinformatics	2	4 / batch	60	40	60
		BT-609	Practical Course: Pharmaceutical Biotechnology	2	4 / batch	60	40	60
	Elective Audit Course	AC-601A	Soft Skill		2			_
		AC-601B	Yoga	No		30	100	
AU		AC-601C	Practicing Cleanliness	credit				

DSC: Discipline Specific Core Courses/Core Practical

SEC: Skill Enhancement Course

DSE: Discipline Specific Elective Course

AU : Audit course

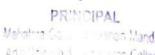
CA: College assessment (Internal examination)

UA: University assessment (External examination)





T.Y B.Sc. [Biotechnology] syllabus (CBCS), 2020-21, KBC North Maharashtra University, Jalgaon Page 7 of 46



## Structure of Curriculum of T.Y.B.Sc. (Biotechnology) Semester V

	Course	Course			Hours/	Total	M	arks	
Discipline	Type	Code	Course Title	Credits	Week (Clock Hours)	Teaching hours	40 40	S C	
	Core I	BT-501	Genetics and Molecular Biology	3	3	45	40		
DSC	Core II	BT-502	Agriculture Biotechnology	3	3	45	40	6	
	Core III	BT-503	Animal Tissue Culture	3	3	45	40	6	
	Core IV	BT-504	Bioengineering	3	3	45		_	
SEC	Skill Based	BT-505	Food Biotechnology	3	3	45		60	
DSE	Elective Course	BT-506A	Environmental Biotechnology-I					-	
	(Anyone)	BT-506 B	Bioinformatics	3	3	45	40	60	
		BT-507	Practical Course: Industrial Biotechnology	2	4 / batch	60	40	60	
DSC	Core (Practical)	BT-508	Practical Course: Animal Biotechnology and Immunology	2	4 / batch	60	40	60	
		BT-509	Practical Course: Applied and Environmental Biotechnology	2	4 / batch	60	40	60	
	P1 .	AC-501A	NSS						
AU	Elective Audit	AC-501B	NCC						
	Course	AC-501C	Sports	No credit	2	30	100	-	

DSC: Discipline Specific Core Courses/Core Practical

SEC: Skill Enhancement Course

DSE: Discipline Specific Elective Course

AU : Audit course

CA: College assessment (Internal examination)

UA: University assessment (External examination)

NCC: National Cadet Corps NSS: National Service Scheme



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T.Y.B.Sc. [Biotechnology] syllabus (CBCS), 2020-21, KBC North Maharashtra University, Jalgaon Page 6 of 46



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Faculty of Science and Technology



## SYLLABUS FOR CORE AND SKILL ENHANCEMENT COUESES IN BOTANY

As Per U. G. C. Guidelines

Based on

**Choice Based Credit System (CBCS)** 

T. Y. B. Sc. BOTANY SEMESTER - WISE SYLLABUS

(Theory and Practicals)

To Be Implemented From Academic Year 2020 - 2021

> ATTESTED 3-A

#### SEMESTER - V

Discipline	_	Course Code	Course Title	Credits	Total Hrs./	Total Teaching	Total (100)	Mark
1	Type	Code			Week	Hrs.	CA	UA
Discipline	Paper - I	BOT.501	Lower Cryptogams	3	3	45	40	60
Specific Course (DSC)	Paper - II	BOT.502	Morphology and Systematics of	3	3	45	40	60
(250)	Paper -III	BOT.503	Angiosperms Cell Biology and Genetics	3	3	45	40	60
	Paper -IV	BOT.504		3	3	45	40	60
DSC Skill Enhanceme	Paper - V	BOT.505		3	3	45	40	60
nt Course DSC	Paper -VI		T	3	3	45	40	60
Elective Course		BOT.506	in Plant Sciences Horticulture	3	3	45	40	60
(Any one)	Practical		Practicals Based on BOT.501 and BOT.505	4	4/Batch	60	40	60
DSC Core Practicals	Practical II	BOT.508		4	4/Batch	60	40	60
Practicals	Practical III	BOT.509		4	4/Batch	99494	40	60
Non-Credit	Paper-VI	I AC-510	NSS	No Credit	2	30	100	
Audit Course (Any One)		AC-511 AC-512	NCC Sports	Cicuit				





### SEMESTER - VI

Discipline	Core	Course	Course Title	Credits		Total Teaching	(100	l Mark )
1	Course	Code			Hrs./ Week	Hrs.	CA	UA
	Туре	DOT (01	II' 1 Counts come	3	3	45	40	60
	Paper-I	BOT.601	Higher Cryptogams		3	45	40	60
Specific Course	Paper-II	BOT.602	Gymnosperms and Paleobotany	3	3	43	40	
(DSC)	Paper-III	BOT.603	Molecular Biology	3	3	45	40	60
	Paper-IV	BOT.604	Economic Botany	3	3	45	40	60
DSC Skill Enhanceme Course	F ·	BOT.605	Floriculture	3	3	45	40	60
DSC Elect	1	BOT.606 A	0,	3	3	45	40	60
Course (Any one)	Paper-VI	BOT.606 E	Plant Breeding	3	3	45	40	60
Dag	Practical I		Practicals Based on BOT.601 and BOT.605	4	4 /Batch	60	40	60
DSC Core Practicals			Practicals Based on BOT.602 and BOT.606A/Bot.566B	4	4/Batch	60	40	60
	Practica III		Practicals Based on BOT.603 and BOT.604	4	4/Batch	60	40	60
	lit Paper-VI		Soft Skill	No		30	100	
Audit Co		AC-611	Yoga	Credit	2	30	100	
(Any One	e)	AC-612	Practicing Cleanliness		_			



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## Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



'A' Grade NAAC Re-Accredited (3<sup>rd</sup> Cycle)

Choice Based Credit System (CBCS)

Syllabus For

T.Y.B.Sc.

**Computer Science** 

(With effect from June 2020)



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#### Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon T.Y.B.Sc. (Computer Science)

(w.e.f. June-2020)

#### Structure

#### Semester - VI

Discipline	Course Type	Course Code	Course Title	Credits	Hours/Week (Clock Hours)	Total Teaching hours	25.000	arks al 100)
					Hours	Hours	CA	UA
	Core I	CS - 601	Operating System	3	3	45	40	60
	Core II	CS - 602	R -DBMS	3	3	45	40	60
DSC	Core III	CS - 603	Computer Network	3	3	45	40	60
	Core IV	CS – 604	Theoretical Computer Science	3	3	45	40	60
DSC Skill Enhancement Course (SEC)	Skill Based	CS – 605	Python Programming - II	3	3	45	40	60
DSC Elective	Elective Course	CS - 606 (A)	Elective –A Web Programming using ASP.NET	3	3	45	40	60 60
Course	(Any One)	CS - 606 (B)	JAVA Programming- II					
		CS – Lab - 607	Lab on Python Programming II	2	4 (per batch)	60	40	60
		CS – Lab 608	Lab on RDBMS	2	4 (per batch)	60	40	60
DSC	Core (Practical)	CS – Lab 609	Elective –A Lab on ASP.NET Elective –B	2	4 (per batch)	60	40	60
			Lab on JAVA Programming II					
Non Credit Audit Course	Elective Audit Course (Any One)	AC - 601 (A)	Soft Skill	No Credit	2	30	100	
		AC - 601 (B)	Yoga			1) T	TEST	ED
		AC - 601 (C)	Practicing Cleanliness			AT	3	1

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## Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon T.Y.B.Sc. (Computer Science) (w.e.f. June-2020) Structure



#### Semester - V

Semester		G		G 114-	Hours/Week (Clock	Total Teaching		arks al 100
Discipline	Course Type	Course Code	Course Title	Credits	Hours)	hours	CA	UA
	Core I	CS - 501	System Programming	3	3	45	40	60
	Core II	CS - 502	Database Management System	3	3	45	40	60
DSC	Core III	CS - 503	Software Engineering	3	3	45	40	60
	Core IV	CS - 504	Computer Aided Graphics	3	3	45	40	60
DSC Skill Enhancement Course (SEC)	Skill Based	CS - 505	Python Programming - I	3	3	45	40	60
DSC Elective	Elective Course	CS - 506 (A)	Elective -A Internet Programming using PHP	3	3	45	40	60 60
Course	(Any One)	CS – 506 (B)	Elective –B JAVA Programming-I				40 40 40 40	
		CS – Lab - 507	Lab on Python Programming - I	2	4 (per batch)	60	40	60
	0	CS – Lab 508	Lab on Computer Aided Graphics	2	4 (per batch)	60	40	60
DSC	Core (Practical)	CS – Lab 509	Elective –A Lab on Internet Programming using PHP Elective –B Lab on JAVA Programming –I	2	4 (per batch)	60	40	60
	Elective	AC - 501 (A)	NSS		2	30	100	14485
Non Credit udit Course	Audit Course	AC - 501 (B)	NCC	No Credit		-17	TEC	-50
	(Any One)	AC - 501 (C)	Sport				7	1



#### Faculty of Science and Technology

### Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



'A' Grade NAAC Re-Accredited (3<sup>rd</sup> Cycle)

Syllabus For

T. Y. B.Sc. (Electronics)

(As per Choice Based Credit System)

(With effect from June - 2020)

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Valiatina Carichi Shikshan Mandal's Adis Shisma & Commerce College, Chicada Tai Chapda Dist-Jalgaon(M.S.

## KBC North Maharashtra University, Jalgaon

Class: T. Y. B. Sc.

Subject: Electronics

#### Choice Base Credit System (With effect from June 2020)

The Board of Studies in Electronics in its meeting has unanimously accepted the revised syllabus (as per CBCS pattern) prepared by different committees, discussed, and finalized for T.Y.B.Sc. The titles of the papers for T.Y.B.Sc. (Electronics) are as given below:

## Structure of curriculum of T. Y. B. Sc. (Electronics)

#### Semester V

Discipline	Course Type	Course Code	Course title	Credits	Hours/week (Clock hours)	Total Teaching hours	Mari 100)	cs (Tota
							CA	UA
DSC	Core I	ELE-501	Semiconductor Electronics	3	3	45	40	60
	Core II	ELE -502	Advanced Digital System Design using VHDL	3	3	45	40	60
	Core III	ELE-503	Advanced Microprocessors	3	3	45	40	60
	Core IV	ELE-504	Electronic Instrumentation	3	3	45	40	60
DSC Skill Enhance ment Course (SEC)	Skill Based	ELE-505	Medical Electronics	3	3	45	40	60
DSC Elective	Elective Course	ELE-506 (A)	Embedded C	3	3	45	40	60
course	(Any one)	ELE-506 (B)	Basics Fiber Optic Communication					
DSC	Core	ELE-507	Practical Lab I	2	4 (per batch)	60	40	60
	(Practical)	ELE-508	Practical Lab II	2	4 (per batch)	60	40	60
- 1		ELE-509	Project Part I	2	4 (per batch)	60	40	60
Non	Elective	AC-501 : A		No	2	30	100	-
Credit	audit	AC-501 : B	NCC	credit				
Audit Course	course (Any one)	AC-501 : C	Sports					





#### Semester VI

Discipline	Course Type	Course Code	Course title	Credits	Hours/week (Clock hours)	Total Teaching hours	Ma (To	rks tal 100
	1,700	1.0 <del>0</del> .01.01.01					CA	UA
					3	45	40	60
DSC	Core I	ELE-601	Power Electronics	3	3	45	40	60
DSC	Core II		Consumer Electronics	3	3	45	40	60
	Core III	ELE-603	Microprocessor Interfacing	3	3		15,550	- (0
	0 77	ELE-604	Techniques	3	3	45	40	60
DSC Skill Enhance ment Course (SEC)	Core IV Skill Based		Computer Network Embedded Systems	3	3	45	40	60
DSC Elective Course	Elective Course (Any one)	ELE-606 (A) ELE-606 (B)	Electrodynamics  Antenna & Wave Propagation	3	3	45	40	60
DSC	Core	ELE-607	Practical Lab I	2	4 (per batch)	60	40	60
DSC	(Practical)	ELE-608	Practical Lab II	2	4 (per batch)	60	40	60
	(	ELE-609	Project Part II	2	4 (per batch)	60	40	60
Non Credit Audit Course	Elective audit course (Any one)	AC-601 : A AC-601 : B AC-601 : C	Soft skill Yoga	No credit	2	30	100	-

CA: Class assessment (Internal examination); UA: University assessment

Note: The Study tour: Industrial visit/Research lab visit is compulsory for the students of T.Y.B.Sc. (Electronics)

PRINCIPAL Mahalma Gandhi Shikshan Manda! id's Science & Commerce College Canria Tal-Chopda Dist-Jalgaon(M.J.;

## KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON



## SYLLABUS FOR T.Y. B. Sc. (MATHEMATICS)

## UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

Effective from June 2020-2021



ATTESTED 3-1 PRINCIPAL

\* Ishaima Gandhi Shikshan Mandal's Selanga & Commerce College, The Chapta Dist-Jalgaon(M.S.)

#### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

## Syllabus for T. Y. B. Sc. (Mathematics) Under Choice Based Credit System (CBCS) Effective from June 2020

Course Structure: Six semester course with continuous evaluation of external and internal examinations in 60:40 pattern.

Discipline	Course Type	Course code	credits	Hours per week	Total Teaching Hours
Semester-V					
DSC	Core I	MTH - 501	3	3	45
	Core II	MTH - 502	3	3	45
	Core III	MTH - 503	3	3	45
	Core IV	MTH - 504	3	3	45
DSC Skill Enhancement	Skill based	MTH - 505	3	3	45
DSC Elective	Elective	MTH - 506(A)	3	3	45
course	course (Any	MTH - 506(B)	3	3	45
DSC	DSC Practical	MTH - 507	2	4 (Per batch)	60
		MTH - 508	2	4 (Per batch)	60
		MTH - 509	2	4 (Per batch)	60
Non-Credit	Elective Audit	AC-601(A)	Non-credit	2	30
Course	Course	AC-601(B)	Non-credit	2	30
	(Any one)	AC-601(C)	Non-credit	2	30
Semester-VI	1				
DSC	Core I	MTH - 601	3	3	45
	Core II	MTH - 602	3	3	45
	Core III	MTH - 603	3	3	45
	Core IV	MTH - 604	3	3	45
DSC Skill Enhancement course (SEC)	Skill based	MTH - 605	3	3	45
DSC Elective	Elective	MTH - 606(A)	3	3	45
course	course(Any one)	MTH - 606(B)	3	3	45
DSC	DSC Practical	MTH - 607	2	4 (Per batch)	60
		MTH - 608	2	4 (Per batch)	60
		MTH - 609	2	4 (Per batch)	60





Mahalma Garari Shikshan Mandal's Ad a Carana & Commerce College, ad a Taraca and Dist Jalgaon (M.S.)





Structure of Syllabus

Program B.Sc.

T. Y. B. Sc. (Microbiology)

**Choice Based Credit System (CBCS)** 

2020-21

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### Structure of Curriculum of T. Y. B. Sc. (Microbiology) Semester V

Discipline	Course Type	Course Code	Course Title	Credits	Hours/ Week (Clock	Total Teaching	M	arks
					Hours)	hours	CA	UA
	Core I	MB-501	Microbial Genetics	3	3	45	40	60
DSC	Core II	MB-502	Bioprocess Technology	3	3	45	40	60
	Core III	MB-503	Metabolism	3	3	45	40	60
	Core IV	MB-504	Basic Immunology	3	3	45	40	60
SEC	Skill Based	MB-505	Medical Microbiology I	3	3	45	40	60
	Elective	MB-506A	Food Microbiology					
DSE	Course (Anyone)	MB-506B	Pharmaceutical Quality Control and Quality Assurance	3	3	45	40 40 40	60
		MB-507	Methods in Medical Microbiology-I	2	4 (per batch)	60	40	60
DSC	Core (Practical)	MB-508	Methods in Industrial Microbiology-I	2	4 (per batch)	60	40	60
		MB-509	Methods in Applied Microbiology-I	2	4 (per batch)	60	40	60
	Elective	AC-501A	NCC					
AU	Audit Course	AC-501B	NSS	No credit	2	30	100	
	(Anyone)	AC-501C	Sports	credit		276070	mala.	

DSC: Discipline Specific Core Courses/Core Practical

SEC: Skill Enhancement Course

DSE: Discipline Specific Elective Course

AU: Audit course

CA: College assessment (Internal examination)

UA: University assessment (External examination)

NCC: National Cadet Corps

T.Y.B.Sc. [Microbiology] syllabus (CBCS), 2020-21, KBC North Maharashtra University, Jalgaon Page 6 of 52





PRINCIPAL

Mahatma Candin Shikshan Mandal's Art's Science & Colombroe Gollege, Impda Tay-Corpa Dist Joigeon (M.S.)

## Structure of Curriculum of T.Y.B.Sc. (Microbiology) Semester VI

					Hours/	Total	M	larks
Discipline	Course Type	Course Code	Course Title	Credits	Week (Clock Hours)	Teaching hours	CA	UA
	Core I	MB-601	Molecular Biology	3	3	45	40	60
DSC	Core II	MB-602	Fermentations	3	3	45	40	60
	Core III	MB-603	Enzymology	3	3	45	40	60
	Core IV	MB-604	Advanced Immunology	3	3	45	40	60
SEC	Skill Based	MB-605	Medical Microbiology-II	3	3	45	40	60
DSE	Elective Course	MB-606A	Agricultural Microbiology	3	3	45	40	60
	(Anyone)	MB-606B	Regulatory Practices & IPR	3	3	43	40	00
		MB-607	Methods in Medical Microbiology-II	2	4 (per batch)	60	40	60
DSC	Core (Practical)	MB-608	Methods in Industrial Microbiology-II	2	4 (per batch)	60	40	60
		MB-609	Methods in Applied Microbiology-II	2	4 (per batch)	60	40	60
	Elective	AC-601A	Soft Skill					
AU	Audit	AC-601B	Yoga	No credit	2	20		
Au	Course (Anyone)	AC-601C	Practising cleanliness	No credit	2	30	100	-

DSC: Discipline Specific Core Courses/Core Practical

SEC: Skill Enhancement Course

DSE: Discipline Specific Elective Course

AU: Audit course

CA: College assessment (Internal examination)

UA: University assessment (External examination)



PRINCIPAL
Mahatma Gandini Shikshan Manda
Art's, Science & Commerce Commerce
Chopda Tal-Chopda Ustracional



# FACULTY OF SCIENCE & TECHNOLOGY KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON



'A' Grade NAAC Re-Accredited (3rd Cycle)

SYLLABUS FOR T. Y. B. Sc. (PHYSICS)

(AS PER CHOICE BASED CREDIT SYSTEM PATTERN OF UGC)

(With effect from June - 2020)

ATTESTED

Mahata n Mondalis ed. Cocege.



#### BOS (PHYSICS)-Faculty of Science & Technology Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Class: T. Y. B. Sc. Subject: Physics
Choice Base Credit System (With effect from June 2020)

The Board of Studies in Physics has unanimously accepted the revised syllabus (as per CBCS pattern) prepared by different committees, discussed and finalized in the Online Workshop on Curriculum Development in Physics at T. Y. B. Sc. held on 15<sup>th</sup> and 16<sup>th</sup> May 2020.

The titles of the papers for T.Y.B.Sc. (Physics) are as given below:

Sem	Course type	Course code	Course title	Cre dits	Total hrs /week	Total teaching periods	Tota marl	5.6
							CA	UA
	Disciplin	PHY 501	Mathematical Physics	3	3	45	40	60
	e specific	PHY502	Solid State Physics	3	3	45	40	60
	Course (DSC)	PHY 503	Atomic and molecular physics	3	3	45	30	60
v		PHY 504(A) Or PHY 504(B)	Electronics-II Or Instrumentation -II	3	3	45	40	60
	Skill Enhance ment course (SEC)	PHY 505	Solar Energy and applications	3	3	45	40	60
	DSE Elective course (Any one)	PHY 506(A) PHY 506(B) PHY 506(C) PHY 506(D) PHY 506 (E)	Technical Electronics- I or Refrigeration and Air conditioning- I or Vacuum Technology-I or Microprocessor-I or Programming in C++ I	3	3	45	40	60
	DSC CORE	PHY 507	Physics Practical I	2	4 (per batch)	60	40	60
	Practicals	PHY 508	Physics Practical II	2	4 (per batch)	60	40	60
		PHY 509	Physics Practical III or Project	2	4 (per batch)	60	40	60
	Non	AC 501(A)	NCC	No	2	30	100	
	credit	AC 501(B)	NSS	credit				
	audit course (Any one)	AC 501 (C)	Sports					
	-		Total credit	24				

ATTESTED

Mahatma Gandhi Shushan Mandal's Ad's Science & Commerce College, Chopda Tal-Chepda Dist-Jalgaon(M S )

Sem	Course type	Course code	Course title	Cre dits	Total hrs /week	Total teaching periods	Tot	
							CA	UA
	Disciplin	PHY 601	Quantum mechanics	3	3	45	40	60
	e specific	PHY602	Material Science	3	3	45	40	60
	Course (DSC)	PHY 603	Nuclear Physics	3	3	45	30	60
		PHY 604	Modern Physics	3	3	45	40	60
VI	Skill Enhance ment course (SEC)	PHY 605	Basic Instrumentation Skills	3	3	45	40	60
	DSE Elective course (Any one)	PHY 606 (A) PHY 606 (B) PHY 606 (C) PHY 606 (D) PHY 606 (E)	Technical Electronics- I or Refrigeration and Air conditioning- II or Vacuum Technology-II or Microprocessor-I or Programming in C++ II	3	3	45	40	60
	DSC CORE	PHY 607	Physics Practical I	2	4 (per batch)	60	40	60
	Practicals	PHY 608	Physics Practical II	2	4 (per batch)	60	40	60
		PHY 609	Physics Practical III or Project	2	4 (per batch)	60	40	60
	Non credit	AC 601(A)	Soft skill	No credit	2	30	10 0	
	audit	AC 601(B)	Yoga	1			-	-
	course (Any one)	AC 601(C)	Practicing Cleanliness					
			Total credit	24				

Note: The industrial/study tour is compulsory for students of T. Y. B. Sc. (Physics).



PRINCIPAL

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