



GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
(Established by State Legislature Act 17 of 1995)  
'A' Grade, NAAC Accredited State Govt. University

1/2 Be A  
Mr. Narinder Kaur  
For Justice  
Syllabi 2020  
3/11/20

Acad./AC-III/BOS&R-28/2020/ 6/88  
Dated: 26/11/2020

To

The Controller of Examinations  
GJUS&T, Hisar.

**Sub: Approval of scheme of examinations and syllabi of BCA programme (1<sup>st</sup> & 2<sup>nd</sup> semester) w.e.f. academic session 2020-21 being run in the affiliated Colleges and Directorate of Distance Education.**

Sir,

I am directed to inform you that the Vice-Chancellor, on the recommendations of Faculty of Engg. & Technology vide resolution no. 4(i) in its meeting held on 10.11.2020, is pleased to approve the scheme of examinations and syllabi of BCA programme (1<sup>st</sup> & 2<sup>nd</sup> semester) offered through regular mode (for affiliated Colleges) and distance mode by Directorate of Distance Education to be implemented w.e.f. academic session 2020-21, under Section 11(5) of the University Act, 1995 in anticipation of approval of the Academic Council.

A copy of the scheme of examinations & syllabi of above said programme is enclosed herewith.

You are therefore, requested to take further necessary action accordingly.

Yours faithfully

DA: As above

*Aandhi*  
26.11.2020  
Assistant Registrar (Academic)  
for Registrar

Endst. No. Acad./AC-III/BOS&R-28/2020/ 6/89-97

Dated: 26/11/2020

A copy of the above is forwarded to the following for information and necessary action:-

1. Dean, Faculty of Engg. & Technology, GJUS&T, Hisar
2. Dean of Colleges, GJUS&T, Hisar.
3. Director, Directorate of Distance Education, GJUS&T, Hisar alongwith scheme of examinations and syllabi of BCA programme (1<sup>st</sup> & 2<sup>nd</sup> semester) w.e.f. 2020-21.
4. Chairperson, Department of Computer Science & Engg., GJUS&T, Hisar alongwith scheme of examinations and syllabi of BCA programme (1<sup>st</sup> & 2<sup>nd</sup> semester) w.e.f. 2020-21. He is requested to arrange to upload the scheme of examinations & syllabi of above said programmes on the website of the University.
5. Principals, concerned affiliated Colleges, GJUS&T, Hisar alongwith scheme of examinations and syllabi of BCA programme (1<sup>st</sup> & 2<sup>nd</sup> semester) w.e.f. 2020-21.
6. Secretary to Vice-Chancellor (for kind information of the Vice-Chancellor), GJUS&T, Hisar.
7. Supdt. O/o Registrar (for kind information of the Registrar), GJUS&T, Hisar.

Principal  
Deemed College  
GJUS&T

*Aandhi*  
26.11.2020  
Assistant Registrar (Academic)

**Scheme of Examination for  
Bachelor of Computer Applications (BCA)  
Three-Year Programme under CBCS Scheme  
w.e.f. Academic Session 2020-21**

**BCA SEMESTER-I**

6

Course Code	Course Title	Credit	Int.	Ext.	Total
BCA-PC(L)-111	Environmental Studies	4	30	70	100
BCA-PC(L)-112	Mathematical Foundation	3	30	70	100
BCA-PC(L)-113	Computer and Programming Fundamentals	3	30	70	100
BCA-PC(L)-114	PC Software	3	30	70	100
BCA-PC(L)-115	Problem Solving Through C	3	30	70	100
BCA-PC(P)-116	Problem Solving Through C Lab	2	30	70	100
BCA-PC(P)-117	PC Software Lab	2	30	70	100
<b>Total</b>		<b>20</b>	<b>210</b>	<b>490</b>	<b>700</b>

3<sup>TH</sup>  
+  
6<sup>th</sup>

**BCA SEMESTER -II**

Course No.	Course Title	Credit	Int.	Ext.	Total
BCA-PC(L)-121	Communication Skills and Personality Development ✓	3	30	70	100
BCA-PC(L)-122	Computer Oriented Numerical Methods	3	30	70	100
BCA-PC(L)-123	Data Structures ✓	3	30	70	100
BCA-PC(L)-124	Operating System ✓	3	30	70	100
BCA-PC(L)-125	Management Information System ✓	3	30	70	100
BCA-PC(P)-126	Data Structure Lab ✓	2	30	70	100
BCA-PC(P)-127	Operating System Lab ✓	2	30	70	100
<b>Total</b>		<b>19</b>	<b>210</b>	<b>490</b>	<b>700</b>

*[Handwritten Signature]*

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**Principal  
Gyanand College  
M.B.A.**

**BCA SEMESTER-III**

Course No.	Course Title	Credit	Int.	Ext.	Total
BCA-PC(L)-231	Object Oriented Programming using C++	3	30	70	100
BCA-PC(L)-232	Web Designing	3	30	70	100
BCA-PC(L)-233	Digital Electronics	3	30	70	100
BCA-PC(L)-234	Introduction to Database Systems	3	30	70	100
BCA-PC(L)-235	Advanced Data Structures	3	30	70	100
BCA-PC(P)-236	Object Oriented Programming using C++ Lab	2	30	70	100
BCA-PC(P)-237	Web Designing Lab	2	30	70	100
<b>Total</b>		<b>19</b>	<b>210</b>	<b>490</b>	<b>700</b>

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+  
61

**BCA SEMESTER-IV**

Course No.	Course Title	Credit	Int.	Ext.	Total
BCA-PC(L)-241	Java Programming	3	30	70	100
BCA-PC(L)-242	RDBMS	3	30	70	100
BCA-PC(L)-243	Computer Architecture	3	30	70	100
BCA-PC(L)-244	Computer Networks	3	30	70	100
	Elective-I	3	30	70	100
BCA-PC(P)-246	Java Programming Lab	2	30	70	100
BCA-PC(P)-247	RDBMS Lab	2	30	70	100
<b>Total</b>		<b>19</b>	<b>210</b>	<b>490</b>	<b>700</b>

Paper No	Elective I Choice
BCA-PE(L)-241	Advanced Web Designing ✓
BCA-PE(L)-242	Mobile Application Development
BCA-PE(L)-243	System Administration & Maintenance

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*[Handwritten Signature]*

**WPS PUNJAB**  
**INDIA**



### BCA SEMESTER-V

Course No.	Course Title	Credit	Int.	Ext.	Total
BCA-PC(L)-351	Programming using Python	3	30	70	100
BCA-PC(L)-352	Artificial Intelligence	3	30	70	100
BCA-PC(L)-353	Software Engineering	3	30	70	100
BCA-PC(L)-354	Data Warehousing and Data Mining	3	30	70	100
	Elective 2	3	30	70	100
BCA-PC(P)-356	Python Programming Lab	2	30	70	100
BCA-PC(P)-357	Artificial Intelligence Lab	2	30	70	100
BCA-PC(P)-358	Minor Project*	3	30	70	100
<b>Total</b>		<b>22</b>	<b>240</b>	<b>560</b>	<b>800</b>

Paper No	Elective 2 Choice
BCA-PE(L)-351	Data Analytics
BCA-PE(L)-352	Computer Graphics
BCA-PE(L)-353	Cloud Computing

### BCA SEMESTER-VI

Course No.	Course Title	Credit	Int.	Ext.	Total
BCA-PC(L)-361	Internet Technology	3	30	70	100
BCA-PC(L)-362	E-Commerce	3	30	70	100
BCA-PC(L)-363	Multimedia Technology	3	30	70	100
BCA-PC(L)-364	Information and Cyber Security	3	30	70	100
	Elective 3	3	30	70	100
BCA-PC(P)-366	Project Work*	6	30	70	100
<b>Total</b>		<b>21</b>	<b>180</b>	<b>420</b>	<b>600</b>

Paper No	Elective 3 Choice
BCA-PE(L)-361	Open Source Software
BCA-PE(L)-362	Data Visualization using R
BCA-PE(L)-363	Software Testing

One credit in theory papers is equivalent to 1 hour classroom teaching per week and one credit in practical/lab course is equivalent to 2 hour practical/lab work per week. A teacher will conduct practical/lab/project work in a group of 20 students in a class

Project work will be carried out under supervision of official / Engineer / teacher of industry/company/institute/College. Evaluation & viva-voce to be done jointly by internal and external examiners.

*[Handwritten Signature]*

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**ITMAR**  
D. S. RAO  
D. S. RAO

CHOICE BASED CREDIT SYSTEM

(CBCS)

Guru Jambheshwar University of Science and Technology, Hisar

Scheme and Syllabi  
for  
(Third Semester Onwards)

Undergraduate Course:

B. SC. PHYSICAL SCIENCES

(PHYSICS/GEOGRAPHY, CHEMISTRY/  
ELECTRONICS/ COMPUTER SCIENCE/ COMPUTER  
APPLICATIONS, MATHEMATICS)

Under  
The Faculty of Physical Sciences and Technology



w.e.f. Academic Session 2018-19

Principal  
Deemed College  
JTRAP

14/6/19

*Signature*



GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
(Established by State Legislature Act 17 of 1995)  
'A' Grade, NAAC Accredited

Head, Dept of Sc.

Acad /AC-III/2018/4574  
Dated 28/8/18

AW  
39/8/18

To  
Controller of Examinations,  
GJUS&T, Hisar

Sub. Approved revised Scheme & Syllabi of -

- B.Sc. (Physical Science, Physics, Chemistry and Mathematics)
- B.Sc. (Physical Science, Physics, Electronics and Mathematics)
- B.Sc. (Physical Science, Physics, Computer Sc and Mathematics)
- B.Sc. (Physical Science, Geography, Computer Sc and Mathematics)
- Certificate and Diploma courses of "Computer Awareness" Non-credit course for all streams.

Sir/Madam,

In continuation to this office letter no. Acad./AC-III/F40/2018/3578-98 dated 25.07.2018 and Acad./AC-III/F40/2018/4271-90 dated 21.08.2018 (copy enclosed) on the subject cited above and to inform you that the Vice-Chancellor, on the recommendations of Dean, Faculty of Physical Sciences & Technology is pleased to approve the following revised/upgraded scheme and syllabi (copy enclosed) being run by affiliated degree colleges to be implemented w.e.f. the Academic Session 2018-19, under Section 11(5) of University Act, 1995 in anticipation of approval of the Academic Council, in place of already supplied the scheme & syllabi vide above mentioned letter by the Academic Branch.

- B.Sc. (Physical Science, Physics, Chemistry and Mathematics)
- B.Sc. (Physical Science, Physics, Electronics and Mathematics)
- B.Sc. (Physical Science, Physics, Computer Sc and Mathematics)
- B.Sc. (Physical Science, Geography, Computer Sc and Mathematics)
- Certificate and Diploma courses of "Computer Awareness" Non-credit course for all streams.

Therefore, you are requested to take further necessary action at your end.

DA: As above

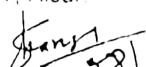
  
28/8/18  
Deputy Registrar (Acad.)  
for Registrar


Endst. No Acad./AC-III/18/4575-4600 Dated: 28/8/18

A copy of the above is forwarded to the following for information and necessary action:-

- Principal concerned affiliated colleges (where above said programmes run), GJUS&T, Hisar with the request to down load the scheme & syllabi of above course from the University Website.
- Dean, Faculty of Physical Sciences & Technology, GJUS&T, Hisar.
- Chairperson, Deptt. of Physics, GJUS&T, Hisar.
- Chairperson, Deptt. of Chemistry, GJUS&T, Hisar.
- Chairperson, Deptt. of Mathematics, GJUS&T, Hisar.
- Director, UCIC, GJUS&T, Hisar with the request to upload this letter on the University Website.
- SVC (for kind information of the Vice-Chancellor), GJUS&T, Hisar.
- Supdt. O/o Registrar (for kind information of Registrar), GJUS&T, Hisar.

Diary No. 3747 Date 28/8/18  
File No. 46

  
28/8/18  
Deputy Registrar (Acad.)

  
Principal  
BVAR  
Hisar

CHOICE BASED CREDIT SYSTEM

(CBCS)

Guru Jambheshwar University of Science and Technology, Hisar

Scheme and Syllabi  
for  
(Third Semester Onwards)

Undergraduate Course:

B. SC. PHYSICAL SCIENCES

(PHYSICS/GEOGRAPHY, CHEMISTRY/  
ELECTRONICS/ COMPUTER SCIENCE/ COMPUTER  
APPLICATIONS, MATHEMATICS)

Under  
The Faculty of Physical Sciences and Technology



w.e.f. Academic Session 2018-19

*Deen*  
14/6/19

*Deen*

Principal  
Guru Jambheshwar University  
Hisar



*Head, Dept of Sc.*



GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
 (Established by State Legislature Act 17 of 1995)  
 A Grade, NAAC Accredited

Acad /AC-III/2018/4577  
 Dated 28/8/18

*in*  
*398/18*

To  
 Controller of Examinations  
 GJUS&T Hisar

Sub Approved revised Scheme & Syllabi of-

- i) B Sc (Physical Science, Physics, Chemistry and Mathematics)
- ii) B Sc (Physical Science, Physics, Electronics and Mathematics)
- iii) **B.Sc (Physical Science, Physics, Computer Sc. and Mathematics)**
- iv) B Sc (Physical Science, Geography, Computer Sc and Mathematics)
- v) Certificate and Diploma courses of "Computer Awareness" Non-credit course for all streams

Sir/Madam,

In continuation to this office letter no Acad /AC-III/F40/2018/3578-98 dated 25.07.2018 and Acad /AC-III/F40/2018/4271-90 dated 21.08.2018 (copy enclosed) on the subject cited above and to inform you that the Vice-Chancellor on the recommendations of Dean, Faculty of Physical Sciences & Technology is pleased to approve the following revised/upgraded scheme and syllabi (copy enclosed) being run by affiliated degree colleges to be implemented w.e.f. the Academic Session 2018-19 under Section 11(5) of University Act, 1995 in anticipation of approval of the Academic Council, in place of already supplied the scheme & syllabi vide above mentioned letter by the Academic Branch.

- i) B Sc (Physical Science, Physics, Chemistry and Mathematics)
- ii) B Sc (Physical Science, Physics, Electronics and Mathematics)
- iii) B Sc (Physical Science, Physics, Computer Sc and Mathematics)
- iv) B.Sc (Physical Science, Geography, Computer Sc. and Mathematics)
- v) Certificate and Diploma courses of "Computer Awareness" Non-credit course for all streams

Therefore, you are requested to take further necessary action at your end

DA As above

*28/8/18*  
 Deputy Registrar (Acad)  
 for Registrar

Endst No Acad / AC-III/18/4577-4600 Dated 28/8/18

A copy of the above is forwarded to the following for information and necessary action:-

1. Principal concerned affiliated colleges (where above said programmes run), GJUS&T, Hisar with the request to down load the scheme & syllabi of above course from the University Website
2. Dean, Faculty of Physical Sciences & Technology, GJUS&T Hisar
3. Chairperson, Deptt. of Physics, GJUS&T, Hisar.
4. Chairperson, Deptt. of Chemistry, GJUS&T Hisar
5. Chairperson, Deptt of Mathematics, GJUS&T Hisar
6. Director UCIC, GJUS&T, Hisar with the request to upload this letter on the University Website
7. SVC (for kind information of the Vice Chancellor), GJUS&T Hisar
8. Bupdt. Ofo Registrar (for kind information of Registrar) GJUS&T Hisar

Chd. No. 3747. On 28/8  
 File No. 46

*28/8/18*  
 Deputy Registrar (Acad)

**Principal**  
**Dayanand College**  
**HISAR.**



CHOICE BASED CREDIT SYSTEM

(CBCS)

**Guru Jambheshwar University of Science and Technology, Hisar**

Scheme and Syllabi  
for  
(Third Semester Onwards)

Undergraduate Course:

B. SC. PHYSICAL SCIENCES

(PHYSICS/GEOGRAPHY, CHEMISTRY/  
ELECTRONICS/ COMPUTER SCIENCE/ COMPUTER  
APPLICATIONS, MATHEMATICS)

Under  
The Faculty of Physical Sciences and Technology



w.e.f. Academic Session 2018-19

*Dean*  
14/6/19

*Principal*

*Principal*  
Department of  
HTRAR.



GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
(Established by State Legislature Act 17 of 1995)  
A Grade, NAAC Accredited

*Head, Dept of Sc.*

Acad /AC-III/2018/4576  
Dated 28/8/18

*And*  
*398/18*

To  
Controller of Examinations,  
GJUS&T Hisar

Sub: Approved revised Scheme & Syllabi of

- i) B.Sc. (Physical Science, Physics, Chemistry and Mathematics)
- ii) B.Sc. (Physical Science, Physics, Electronics and Mathematics)
- iii) B.Sc. (Physical Science, Physics, Computer Sc. and Mathematics)
- iv) B.Sc. (Physical Science, Geography, Computer Sc. and Mathematics)
- v) Certificate and Diploma courses of "Computer Awareness" Non-credit course for all streams

Sir/Madam,

In continuation to this office letter no Acad /AC-III/F40/2018/3578-98 dated 25.07.2018 and Acad./AC-III/F40/2018/4271-90 dated 21.08.2018 (copy enclosed) on the subject cited above and to inform you that the Vice-Chancellor, on the recommendations of Dean, Faculty of Physical Sciences & Technology is pleased to approve the following revised/upgraded scheme and syllabi (copy enclosed) being run by affiliated degree colleges to be implemented w.e.f. the Academic Session 2018-19, under Section 11(5) of University Act, 1995 in anticipation of approval of the Academic Council, in place of already supplied the scheme & syllabi vide above mentioned letter by the Academic Branch.

- i) B.Sc. (Physical Science, Physics, Chemistry and Mathematics)
- ii) B.Sc. (Physical Science, Physics, Electronics and Mathematics)
- iii) B.Sc. (Physical Science, Physics, Computer Sc. and Mathematics)
- iv) B.Sc. (Physical Science, Geography, Computer Sc. and Mathematics)
- v) Certificate and Diploma courses of "Computer Awareness" Non-credit course for all streams

Therefore, you are requested to take further necessary action at your end.

DA. As above

*28/8/18*  
Deputy Registrar (Acad.)  
for Registrar

Endst No Acad / AC-III/18/4575-4600 Dated 28/8/18

A copy of the above is forwarded to the following for information and necessary action:-

1. Principal concerned affiliated colleges (where above said programmes run), GJUS&T, Hisar with the request to down load the scheme & syllabi of above course from the University Website
2. Dean, Faculty of Physical Sciences & Technology, GJUS&T Hisar
3. Chairperson, Deptt of Physics, GJUS&T, Hisar
4. Chairperson, Deptt of Chemistry, GJUS&T, Hisar
5. Chairperson, Deptt of Mathematics, GJUS&T Hisar
6. Director, UCIC, GJUS&T, Hisar with the request to upload this letter on the University Website
7. SVC (for kind information of the Vice-Chancellor), GJUS&T, Hisar
8. Suptt. Of Registrar (for kind information of Registrar), GJUS&T Hisar

File No. 3747/18  
46

*28/8/18*  
Deputy Registrar (Acad.)

*Principal*  
*Devi Chand*  
TRAB.

# Scheme of Examination and Syllabus

**Affiliated Colleges**

(2018-19 w.e.f. Sem-III) and 2019-20 w.e.f. Sem-I) onwards

**B. Sc. General (Medical Group) Botany**

BASED ON  
**CHOICE BASED CREDIT SYSTEM**



*Department of Bio and Nanotechnology*  
*Guru Jambheshwar University of Science & Technology*  
*Hisar*

Principal  
Dyanand College  
HSAR.



# Proposed Structure and Syllabus

of

## Zoology

for

B.Sc. Undergraduate Programme

1st to 3rd year w.e.f. 2019-20 onwards

&

2nd & 3rd year for the students admitted

in academic session 2018-19.

Based on:

U.G.C. Choice Based Credit System (CBCS)

Model Curriculum

*[Signature]*

*[Signature]*  
07/6/19

*[Signature]*  
Principal  
Deyanand College  
175-AR.

**CHOICE BASED CREDIT SYSTEM**

**B. Sc. PHYSICAL SCIENCE  
(PHYSICS, CHEMISTRY, MATHEMATICS)**

**B. Sc. CHEMISTRY**

MILGAR

**DEPARTMENT OF CHEMISTRY  
GURU JAMBHESHWAR UNIVERSITY OF  
SCIENCE AND TECHNOLOGY, HISAR  
w.e.f. 2018-19**

Handwritten notes in blue ink, including the word "copy" and "H.S.R." with a checkmark.

# DEPARTMENT OF ZOOLOGY

scheme & syllabi 2019

GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
(Established by State Legislature Act 17 of 1995)  
'A' Grade, NAAC Accredited



Acad./AC-III/F-5&19/2019/ 2589  
Dated: 20-06-19

*Dr. Vineet Divasthara*  
*Zoology Dept. Hisar*  
*(A)*  
*26/6/19*

To

Controller of Examinations  
GJUS&T, Hisar.

**Sub: Approval of Scheme & Syllabi for various B.Sc. programmes w.e.f. Academic Session mentioned against each.**

I am directed to inform you that the Vice-Chancellor, on the recommendations the Faculty of Environmental and Bio Sciences & Technology, vide resolution no. 2, in its meeting held on 20.03.2019, is pleased to approve the scheme & syllabi of B.Sc. programme(s) w.e.f. the academic session mentioned against each being run in affiliated degree colleges in anticipation of approval of the Academic Council under Section 11(5) of the University Act, 1995:-

**Sr.No. Programmes:**

1. B.Sc. General (Medical Group) Zoology of affiliated degree Colleges based on Choice Based Credit System 1<sup>st</sup> to 3<sup>rd</sup> year w.e.f. academic session 2019-20 onwards and also for 2<sup>nd</sup> year and 3<sup>rd</sup> year for the students admitted during academic session 2018-19.
2. B.Sc. General (Medical Group) Botany of Affiliated Degree Colleges based on Choice Based Credit System w.e.f. academic session 2018-19 for 3<sup>rd</sup> Semester onwards and Academic Session 2019-20 for 1<sup>st</sup> Semester onwards.
3. B.Sc. General (Medical Group) Botany 5<sup>th</sup> and 6<sup>th</sup> semester of affiliated Degree Colleges based on existing syllabus of Kurukshetra University, Kurukshetra for the students admitted in batch 2017-18.
4. B.Sc. General (Medical Group) Biotechnology of affiliated Degree Colleges based on Choice Based Credit System w.e.f. academic session 2018-19 for 3<sup>rd</sup> Semester onwards and Academic Session 2019-20 for 1<sup>st</sup> Semester onwards.
5. B.Sc. General (Medical Group) Biotechnology 5<sup>th</sup> and 6<sup>th</sup> semester of affiliated Degree Colleges based on existing syllabus of Kurukshetra University, Kurukshetra for the students admitted in batch 2017-18.

This is for your information and further necessary action in the matter.

DA: As above

*Janga*  
20/6/19  
Dy. Registrar (Academic)

Endst. No. Acad./AC-III/F-5&19/2019/2585-99 Dated: 20-06-19

A copy of the above is forwarded to the following for information and necessary action:-

1. Dean Academic Affairs, GJUS&T, Hisar.
2. Dean of Colleges, GJUS&T, Hisar.
3. Dean, Faculty of Environmental and Bio Sciences & Technology, GJUS&T, Hisar.
4. Chairperson, Deptt. of Environmental Science & Engg., GJUS&T, Hisar alongwith copy of scheme & syllabi of B.Sc. General (Medical Group) Zoology at sr. no. 1. You are further requested to get upload the said scheme and syllabi on the University website
5. Chairperson, Deptt. of Bio & Nano Technology, GJUS&T, Hisar alongwith copy of scheme and syllabi of B.Sc. (Medical Group) Botany at sr. no. 2 and 3 and B.Sc. General (Medical Group) Biotechnology) at sr. no. 4 & 5. You are further requested to get upload the said scheme and syllabi on the University website
6. All concerned Affiliated Degree Colleges, GJUS&T, Hisar alongwith scheme and syllabi of B.Sc. (General) Medical Group from sr. no. 1 to 5.
7. SVC (for kind information of Vice-Chancellor), GJUS&T, Hisar.

DAYANAND COLLEGE, HISAR

Diary No. 2099 Date 20-6-19

*Janga*  
20/6/19



# Proposed Structure and Syllabus

of

## Zoology

for

B.Sc. Undergraduate Programme

1st to 3rd year w.e.f. 2019-20 onwards

&

2nd & 3rd year for the students admitted

in academic session 2018-19.

Based on:

U.G.C. Choice Based Credit System (CBCS)

Model Curriculum

Principal  
Bannur College  
Bannur

*[Signature]*

*[Signature]*  
07/6/19

2

# ***Scheme of Examination and Syllabus***

***Affiliated Colleges***

***(2018-19 w.e.f. Sem-III and 2019-20 w.e.f. Sem-I)***

***B. Sc. (MEDICAL GROUP WITH BIOTECHNOLOGY)***

***BASED ON***

***CHOICE BASED CREDIT SYSTEM***



***Department of Bio and Nano Technology***  
***Guru Jambheshwar University of Science & Technology***  
***Hisar-125001***

*[Handwritten signature]*  
***Principal***  
***Hisar***

DR VASU  
P

# Scheme of Examination and Syllabus

Affiliated Colleges

(2018-19 w.e.f. Sem-III) and (2019-20 w.e.f. Sem-I) onwards

B. Sc. General (Medical Group) Botany

BASED ON  
CHOICE BASED CREDIT SYSTEM



Department of Bio and Nanotechnology  
Guru Jambheshwar University of Science & Technology  
Hisar

Principal  
Guru Jambheshwar  
University of Science & Technology  
Hisar





(Established by State Legislature Act 17 of 1995)  
'A' Grade, NAAC Accredited

scheme & syllabi 2019

In. Vivek Srivastava  
Zooology, Prof. ProTech. (5)  
26/6/19

Acad./AC-III/F-5&19/2019/2584  
Dated: 20-06-19

To

Controller of Examinations  
GJUS&T, Hisar.

Sub: **Approval of Scheme & Syllabi for various B.Sc. programmes w.e.f. Academic Session mentioned against each.**

I am directed to inform you that the Vice-Chancellor, on the recommendations the Faculty of Environmental and Bio Sciences & Technology, vide resolution no. 2, in its meeting held on 20.03.2019, is pleased to approve the scheme & syllabi of B.Sc. programme(s) w.e.f. the academic session mentioned against each being run in affiliated degree colleges in anticipation of approval of the Academic Council under Section 11(5) of the University Act, 1995:-

Sr.No. Programmes:

1. B.Sc. General (Medical Group) Zoology of affiliated degree Colleges based on Choice Based Credit System 1<sup>st</sup> to 3<sup>rd</sup> year w.e.f. academic session 2019-20 onwards and also for 2<sup>nd</sup> year and 3<sup>rd</sup> year for the students admitted during academic session 2018-19.
2. B.Sc. General (Medical Group) Botany of Affiliated Degree Colleges based on Choice Based Credit System w.e.f. academic session 2018-19 for 3<sup>rd</sup> Semester onwards and Academic Session 2019-20 for 1<sup>st</sup> Semester onwards.
3. B.Sc. General (Medical Group) Botany 5<sup>th</sup> and 6<sup>th</sup> semester of affiliated Degree Colleges based on existing syllabus of Kurukshetra University, Kurukshetra for the students admitted in batch 2017-18.
4. B.Sc. General (Medical Group) Biotechnology of affiliated Degree Colleges based on Choice Based Credit System w.e.f. academic session 2018-19 for 3<sup>rd</sup> Semester onwards and Academic Session 2019-20 for 1<sup>st</sup> Semester onwards.
5. B.Sc. General (Medical Group) Biotechnology 5<sup>th</sup> and 6<sup>th</sup> semester of affiliated Degree Colleges based on existing syllabus of Kurukshetra University, Kurukshetra for the students admitted in batch 2017-18.

This is for your information and further necessary action in the matter.

DA: As above

Dy. Registrar (Academic)

Endst. No. Acad./AC-III/F-5&19/2019/2585-97 Dated: 20-06-19

A copy of the above is forwarded to the following for information and necessary action:-

1. Dean Academic Affairs, GJUS&T, Hisar.
2. Dean of Colleges, GJUS&T, Hisar.
3. Dean, Faculty of Environmental and Bio Sciences & Technology, GJUS&T, Hisar.
4. Chairperson, Deptt. of Environmental Science & Engg., GJUS&T, Hisar alongwith copy of scheme & syllabi of B.Sc. General (Medical Group) Zoology at sr. no. 1. You are further requested to get upload the said scheme and syllabi on the University website
5. Chairperson, Deptt. of Bio & Nano Technology, GJUS&T, Hisar alongwith copy of scheme and syllabi of B.Sc. (Medical Group) Botany at sr. no. 2 and 3 and B.Sc. General (Medical Group) Biotechnology) at sr. no. 4 & 5. You are further requested to get upload the said scheme and syllabi on the University website
6. All concerned Affiliated Degree Colleges, GJUS&T, Hisar alongwith scheme and syllabi of B.Sc. (General) Medical Group from sr. no. 1 to 5.
7. SVC (for kind information of Vice-Chancellor), GJUS&T, Hisar.

Principal  
GJUS&T  
Hisar

26/6/19

(4)


*Scheme of Examination and Syllabus*  
*Affiliated Colleges*  
**(2018-19)**

**M. Sc. (Biotechnology)**  
**(1<sup>st</sup> and 2<sup>nd</sup> Semester)**

*Based on*  
**Choice Based Credit System**



*Guru Jambheshwar University of Science & Technology*  
*Hisar (Haryana)*

  
**Principal**  
**Gayand College**  
**HISAR**



GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
(Established by State Legislature Act 17 of 1995)  
'A' Grade, NAAC Accredited

Dr. Vineet Singh  
(Signature)

Acad./AC-III/F-5&19/2019/2238

Dated: 07.06.19

To

The Controller of Examinations  
GJUS&T, Hisar.

25/6/19

Sub: **Approval of revised Scheme & Syllabi of M.Sc. (Biotechnology) w.e.f. academic session 2018-19 3<sup>rd</sup> semester onwards and w.e.f. academic session 2019-20 1<sup>st</sup> semester onwards.**

I am directed to inform you that the Vice-Chancellor, on the recommendations the Faculty of Environmental and Bio Sciences & Technology vide resolution no. 7 in its meeting held on 20.03.2019, is please to approve the Scheme & Syllabi of M.Sc. (Biotechnology) programme w.e.f. academic session 2018-19 3<sup>rd</sup> semester onwards and w.e.f. academic session 2019-20 1<sup>st</sup> semester onwards being run in University Teaching Departments and affiliated degree College(s) in anticipation of approval of the Academic Council under Section 11(5) of the University Act, 1995. A copy of the scheme & syllabi of the above said programme is enclosed herewith.

This is for your information and further necessary action in the matter.

DA: As above

(Signature)  
07/6/19

Dy. Registrar (Academic)

Endst. No. Acad./AC-III/F-5&19/2019/2239-2244

Dated: 07.06.19

A copy of the above is forwarded to the following for information and necessary action:-

1. Dean Academic Affairs, GJUS&T, Hisar.
2. Dean of Colleges, GJUS&T, Hisar.
3. Dean, Faculty of Environmental and Bio Sciences & Technology, GJUS&T, Hisar.
4. Chairperson, Deptt. of Bio & Nano Technology, GJUS&T, Hisar. (alongwith a copy of Scheme & Syllabi of M.Sc. (Biotechnology) w.e.f. academic session 2018-19 3<sup>rd</sup> semester onwards and w.e.f. academic session 2019-20 1<sup>st</sup> semester onwards)
5. Principal, D.N. College, Hisar. (alongwith a copy of Scheme & Syllabi of M.Sc. (Biotechnology) w.e.f. academic session 2018-19 3<sup>rd</sup> semester onwards and w.e.f. academic session 2019-20 1<sup>st</sup> semester onwards)

Department of Examinations  
GJUS&T, Hisar

DAYANAND COLLEGE, HISAR

Diary No. 078 Date 27/6/19

File No. 68

(Signature)  
07/6/19

Dy. Registrar (Academic)



# THE CURRICULUM BOOK OF

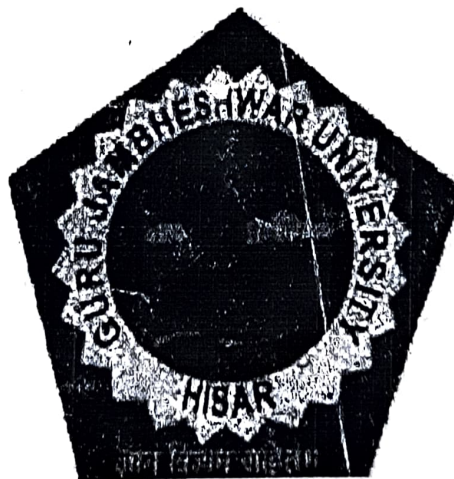
## MASTER OF COMMERCE (M.COM)

Specialization: Finance, Human Resource Management and Marketing

TWO YEARS (FOUR SEMESTERS) PROGRAMME

Choice Based Credit System on Outcome Based Education

(Effective from Session 2020-21)



**HARYANA SCHOOL OF BUSINESS**  
GURU JAMBHESHWAR UNIVERSITY OF SCIENCE  
AND TECHNOLOGY HISAR-125001, HARYANA

**(YEAR-2020)**

THE  
PUNJAB  
UNIVERSITY





GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
(Established by State Legislature Act 17 of 1995)  
A Grade, NAAC Accredited State Govt. University

Acad./AC-III/BOS&R-5/2020/ 4826  
Dated 18/9/2020

To

The Controller of Examinations  
GJUS&T, Hisar

Subj.

Approval of revised scheme of examinations and syllabi of MBA, MBA (IB), MBA (Finance), MBA (Marketing) and M.Com programme(s) w.e.f. academic session 2020-21 being run in Haryana School of Business and affiliated degree College(s).

Sr.

I am directed to inform you that the Vice-Chancellor on the recommendations of Dean, Faculty School of Haryana School of Business vide resolution no. 1 in its meeting held on 28.09.2020 and BOS&R in Haryana School of Business vide resolution no. 3 in its meeting held on 14.05.2020 is pleased to approve the revised scheme of examinations and syllabi of MBA, MBA (IB), MBA (Finance), MBA (Marketing) and M.Com programme(s) based on Outcome Based Education and Choice Based Credit Based System to be implemented w.e.f. academic session 2020-21 being run in Haryana School of Business and affiliated degree college(s), under Section 11(5) of the University Act, 1995 in anticipation of approval of the Academic Council.

A copy of the scheme of examinations & syllabi of above programme is enclosed herewith.

You are therefore, requested to take further necessary action accordingly.

Yours faithfully

DA: As above

*[Signature]*  
Asstt Registrar (Academic)  
for Registrar

Endst. No Acad./AC-III/BOS&R-5/2020/ 4827-36 Dated 18/9/2020

A copy of the above is forwarded to the following for information and necessary action -

1. Dean, Faculty/School of Haryana School of Business, GJUS&T, Hisar
2. Director, Haryana School of Business, GJUS&T, Hisar alongwith revised scheme of examinations and syllabi of MBA, MBA (IB), MBA (Finance), MBA (Marketing) and M.Com programme(s) w.e.f. 2020-21. Further, he is requested to arrange to upload the scheme of examinations & syllabi of above said programmes on the website of the University
3. Principals, Concerned affiliated Colleges, GJUS&T, Hisar alongwith scheme of examinations and syllabi of M.Com programme w.e.f. 2020-21
4. Secretary to Vice-Chancellor (for kind information of the Vice-Chancellor), GJUS&T, Hisar
5. Supdt. O/o Registrar (for kind information of the Registrar), GJUS&T, Hisar

*[Signature]*  
Asstt Registrar (Academic)  
for Registrar

**FRS**  
**Deputy Controller**  
**HISAR**