



OFFICE OF THE PRINCIPAL  
**S. B. DEORAH COLLEGE**  
**ULUBARI, GWAHATI-781007**

Tel.: 0361-3511878

E-mail: sbdeorahcollege@gmail.com

Website: www.sbdeorahcollege.org.in



**Supportive documents on a case study of decentralization and participative management is described with roles, duties and functions of HoDs**

**Seminar/Workshops for Students**





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**Field Trips**





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Wall Magazine





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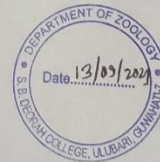


**Projects Assigned to Students**

Students' Project Titles  
6<sup>th</sup> Sem Major (2021 Passed Out)  
Paper Code: M-605  
Department of Zoology  
S.B. Deorah College  
Guwahati-07

Sl No	GU Roll No	Name of the Students	Project Title
1	US-181-037-0006	Ankita Paul	Checklist of Fish Species of Lower Brahmaputra River
2.	US-181-037-0009	Asiqul Islam Baig	Review of Viral Invasion, Transmission, Diagnosis, Prevention and Treatment of Covid-19 Diseases
3.	US-181-037-0038	Nabanita Sutradhar	Review of Prevalence Diagnosis and Management of Type-2 Diabetes Mellitus
4.	US-181-037-0023	Himashri Bora	Prevalence of the Polycystic Ovarian Syndrome in the Post-Pubertal Females in India-A Literature Review on Recent Advances
5.	US-181-037-0027	Kangkana Boruah	Checklist of Butterflies in Panjabari, Guwahati, Assam
6.	US-181-037-0042	Rahul Deka	Butterfly Diversity in Narengi, Guwahati, Assam
7.	US-181-037-0043	Rajdeep Barman	Comparative Study On Butterfly (Kahilipara Forest)
8.	US-181-037-0049	Sajit Karki	A Comparative Survey of Bird Diversity in Two Forested Areas of Guwahati
9.	US-181-037-0053	Shubom Saha	Checklist of Fish Species of Lower Brahmaputra River (Dhubri)

*msy*  
(HOD)





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**Periodical Meetings of the HoDs with the Principal**

Meeting of the HoDs Date-30/10/2021  
Time-2:45pm

Agenda:- Discussion on selection of SEC papers for Semester III and Semester II

Members Present:-

1. Nabanka Debbar
2. Shrima Das
3. Brijal Patowary
4. Rumamoni Deka
5. Sudam Basumatary
6. Chayanika Sarma
7. Sumita Rabha
8. Jagori Sharma
9. Deepanjita Deka
10. Vajranta Das
11. Kshmita Borahain
12. Dolina Sar
13. Bivra Rai Pathan
14. Jishnu Barak

The meeting starts with the Principal in the chair. The Principal informs the meeting that as part of CBCS introduced by Gauhati University, all the colleges should offer Skill Enhancement Course to the students in Semester III onwards. Since the first batch has reached Semester III, the meeting decided to offer at least 6-7 SEC courses to the students. As the students of BA/BSc/BCom studying in Semester III should select one from the courses offered by the college. The following teachers are entrusted to select the SEC papers to be offered by the college in Semester III.

1. Mrs. A. Das, 2. Dr. A. Patowary,
3. Dr. S. Sharma & 4. Ms. R. Borahain.

The meeting ends with thanks from the chair.

D. S. Pathan

## Meeting of the HODs

Date - 5/7/2021

Time - 11:30 a.m.

Agenda: -> H.S. final examination matter  
& program & courses of UG programmes.

Members Present:

1. Dipu mon Goswami
2. Nabanita Bhowmik
3. Bidha Ranu Bhattacharyya
4. Rashmiti Dasgupta
5. Rumamani Deka
6. Sajidus Rahman
7. Divya P. Pathan
8. Jyoti Basak
9. Anina Das
10. Anjali Patowary

The meeting starts with the Principal in the chair. The meeting discussed about the direction received from AITSEC for processing of the H.S. final examination result for 2021.

The meeting discussed the progress of courses of various UG programmes. Principal urged the HODs to take steps for early completion of courses by undertaking more ~~online~~ classes in both offline & online mode.

The meeting ends with thanks from the chair.

D.  
5/7/21





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Ref.....

Date : 6 / 11 / 20

NOTICE

All the teachers of Arts, Commerce and Science are hereby requested to start their mentoring classes from Second Week of November, 2020 with their group members as arranged by Teaching Learning Committee.

*Nabanita Bhuyan*

(Dr. N. Bhuyan)

Convener

Teaching Learning Committee

S.B.Deorah College.

*D.*  
6.11.20





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Ref.....

Date : 6.11.20

NOTICE

It is notified to all the teachers of Arts, Commerce and Science faculties to attend the mentoring class as per the allotted duties given below-

  
(Dr. D.Nath)  
Principal

BA 1<sup>st</sup> Semester

Monday- Time :11.30 a.m. – 12.30 p.m. – Room No-105

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.105

Monday : Mentor- B.Baishya

Wednesday : Mentor- J.Baruah

Roll Nos:- 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 54, 56, 57, 58, 59, 60, 61, 62, 64.

BA 1<sup>st</sup> Semester

Monday- Time :11.30 a.m. – 12.30 p.m. – Room No-003

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.206

Monday : Mentor- S.Das, J.Das(Eng)

Wednesday : Mentor- N.B.

Roll Nos:- 65, 66, 67, 68, 69, 70, 72, 73, 75, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 92, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109.

BA 1<sup>st</sup> Semester

Monday- Time :11.30 a.m. – 12.30 p.m. – Room No-110

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.110

Monday : Mentor- TRB, S.R

Wednesday : Mentor- M.H

Roll Nos:- 110, 111, 112, 114, 115, 116, 118, 120, 121, 122, 123, 124, 125, 129, 130, 131, 132, 133, 135, 138, 139, 140, 141, 142, 144, 145, 146, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 162, 163, 164, 167, 168, 169, 170, 171

BA 1<sup>st</sup> Semester

Monday- Time :11.30 a.m. – 12.30 p.m. -- Room No-111

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.111

Monday : Mentor- M.K

Wednesday : Mentor- O.B, P.B

Roll No:- 172, 174, 176, 177, 181, 182, 184, 185, 186, 188, 189, 199, 204, 206, 209, 210, 214, 215, 217, 218, 221, 222, 223, 227, 228, 230, 232, 233, 235, 237, 238, 239, 244, 250, 256, 259, 263, 265, 267.

BA 1<sup>st</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-105

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.111

Monday : Mentor- K.C, R.D

Wednesday : Mentor- D.G, M.D

Roll Nos:- 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 191, 193, 194, 195, 196, 197, 198, 200, 201, 202, 207, 208, 211, 212, 219, 220, 224, 226, 229, 231, 234, 236, 240, 241, 242, 243, 245, 246, 247, 248, 249, 251.

BA 1<sup>st</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-103

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.201

Monday : Mentor- G.D, J.B(Psc)

Wednesday : Mentor- BRP

Roll Nos:- 252, 253, 254, 255, 257, 258, 260, 261, 262, 264, 266, 268, 269, 270, 271, 272, 273, 274, 1, 21, 23, 45, 55, 63, 71, 74, 76, 93, 113, 117, 119, 126, 127, 128, 134

BA 1<sup>st</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-110

Wednesday – Time: 2.30 p.m. – 3.30 p.m. – Room No.104

Monday : Mentor- A.D

Wednesday : Mentor- A.P

Roll Nos:- 136, 143, 147, 148, 160, 165, 166, 173, 175, 178, 179, 180, 183, 187, 190, 192, 203, 205, 213, 216, 219, 220, 226, 229, 231, 234, 236, 240, 242, 248, 251, 266, 268, 271, 272.

BA 1<sup>st</sup> Semester

Monday- Time : 12.30 p.m. – 1.30 p.m. – Room No-205

Mentor :- N.B

Roll Nos:- 74, 127, 143, 178, 179, 216

### BA 3<sup>rd</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-102

Wednesday – Time: 11.30 a.m. – 12.30 p.m. – Room No.105

Monday : Mentor- J.D(Eco)

Wednesday : Mentor- A.S, J.B(Psc)

Roll Nos:- 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 25, 28, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 50.

### BA 3<sup>rd</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-108

Wednesday – Time: 11.30 a.m. – 12.30 p.m. – Room No.205

Monday : Mentor- N.B, BRP

Wednesday : Mentor- N.B, BRP

Roll Nos:- 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 77, 78, 79, 80, 81, 84, 85, 86, 88, 89, 90, 91, 92, 93, 98, 99, 100.

### BA 3<sup>rd</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-109

Wednesday – Time: 11.30 a.m. – 12.30 p.m. – Room No.206

Monday : Mentor- A.Das, D.Goswami

Wednesday : Mentor- M.Deka, A.Das

Roll Nos:- 101, 103, 105, 107, 108, 109, 110, 111, 113, 114, 116, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 144, 145, 146, 147, 148, 150.

### BA 3<sup>rd</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-110

Wednesday – Time: 11.30 a.m. – 12.30 p.m. – Room No.004

Monday : Mentor- A.P, BKC

Wednesday : Mentor- A.Sharma, M.Hussain

Roll Nos:- 151, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 176, 177, 178, 179, 180, 182, 183, 184, 185, 186, 187, 189, 190, 191, 193, 194, 195, 196, 197, 198, 199, 200.

BA 3<sup>rd</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-111  
Mentor- G.Das, S.Baruah

Roll Nos:- 201, 205, 206, 207, 209, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 237, 239, 240, 241, 242, 243, 244, 245, 247, 248, 249, 250.

BA 3<sup>rd</sup> Semester

Monday- Time : 2.30 p.m. – 3.30 p.m. – Room No-204  
Mentor- M.Kalita, K.Choudhury

Roll Nos:- 251, 252, 254, 255, 256, 257, 258, 259, 260, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 275, 276, 277, 278, 279, 280, 285, 287, 288, 289, 290, 291, 292, 294, 295, 296, 298, 299, 300.

BA 3<sup>rd</sup> Semester

Wednesday- Time : 11.30 a.m. – 12.30 p.m. – Room No-104  
Friday – Time: 10.30 a.m. – 11.30 p.m. – Room No.104  
Wednesday : Mentor- R.Deka, J.Baruah  
Friday : Mentor- C.D, P.Borah

Roll Nos:- 9, 23, 24, 26, 27, 29, 49, 55, 76, 82, 83, 87, 94, 95, 96, 97, 102, 104, 106, 112, 115, 117, 121, 142, 143, 149, 152, 163, 181, 188, 192, 202, 203, 204, 208, 210, 236, 238, 246, 253, 261, 269, 273, 274, 281, 282, 283, 284, 286, 293, 297.

- Students of Economics Regular/Generic, will not attend the class on Wednesday.

BA 3<sup>rd</sup> Semester

Thursday- Time : 3.30 p.m. – 4.30 p.m. – Room No-102  
Mentor- D.Goswami, J.Das(Eco)

Roll Nos:- 201, 205, 206, 207, 209, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 237, 239, 240, 241, 242, 243, 244, 245, 247, 248, 249, 250,

BA 3<sup>rd</sup> Semester

Thursday- Time : 3.30 p.m. – 4.30 p.m. – Room No-103  
Mentor- S.Das, B.B.

Roll Nos:- 251, 252, 254, 255, 256, 257, 258, 259, 260, 262, 263, 264, 265, 266, 267, 268, 270,  
272, 275, 276, 277, 278, 279, 280, 285, 287, 288, 289, 290, 291, 292, 294, 295, 296, 298, 299,  
300.

BA 3<sup>rd</sup> Semester

Thursday- Time : 10.30 a.m. – 11.30 a.m. – Room No-105  
Mentor- J.Baruah

Roll Nos:- 4, 10, 20, 50, 74, 135, 175, 37, 46, 138, 71, 91, 103, 113, 116, 128, 183, 208, 209,  
216, 220, 237, 252, 181.

B.Com 1<sup>st</sup> Semester

Thursday :Time: 1.30 p.m. – 2.30 p.m

Mentor : T.Talukdar, Room No. 205

Roll Nos:- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25,  
26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40,

B.Com 1<sup>st</sup> Semester

Thursday :Time: 1.30 p.m. – 2.30 p.m

Mentor : S.Tarafdar, Room No. 206

Roll Nos:- 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,  
63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80

B.Com 1<sup>st</sup> Semester

Thursday :Time: 1.30 p.m. – 2.30 p.m

Mentor : C.Baruah, Room No. 207

Roll Nos:- 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101,  
102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

B.Com 3<sup>rd</sup> Semester

Monday :Time: 1.30 p.m. – 2.30 p.m

Mentor : R.Borgohain, Room No. 105

Room No:- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70.

B.Com 3<sup>rd</sup> Semester

Monday :Time: 1.30 p.m. – 2.30 p.m

Mentor : P.Deka, Room No. 110

Roll Nos:- 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124.

B.Com 3<sup>rd</sup> Semester

Tuesday :Time: 11.30 a.m. – 12.30 p.m

Mentor : K.Dutta, Room No. 206

Roll Nos:- 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124

B.Com 3<sup>rd</sup> Semester

Tuesday :Time: 11.30 a.m. – 12.30 p.m

Mentor : R.Borgohain, Room No. 105

Room No:- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,

B.Com 3<sup>rd</sup> Semester

Tuesday :Time: 11.30 a.m. – 12.30 p.m

Mentor : R.Borgohain, Room No. 105

Roll Nos:- 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90





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website : www.sbdeorahcollege.org.in

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Date : .....

B.Sc 1st Semester

Monday- Time:- 3.30 p.m. – 4.30 p.m. – Room No.101

Thursday- Time:- 1.30 p.m. – 2.30 p.m. – Room No-105

Monday : Physics/Chemistry (K.Nath/ R.Sarma)

Thursday : Mathematics/Botany (N.Goswami/D.Deka)

Roll Nos:- 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 25, 28, 30, 31,  
32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 50.

B.Sc 1st Semester

Monday- Time:- 3.30 p.m. – 4.30 p.m. – Room No.102

Thursday- Time:- 1.30 p.m. – 2.30 p.m. – Room No-206

Monday : Zoology/Statistics (P.Chutia/B.Debroy)

Thursday : Com.Sc (C.Sarma)

Roll Nos:- 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73,  
74, 75, 77, 78, 79, 80, 81, 84, 85, 86, 88, 89, 90, 91, 92, 93, 98, 99, 100.

B.Sc 1st Semester

Monday- Time:- 3.30 p.m. – 4.30 p.m. – Room No.103

Thursday- Time:- 1.30 p.m. – 2.30 p.m. – Room No- 207

Monday : Mathematics/Botany (J.Gogoi/S.Warisa)

Thursday : Physics

Roll Nos:- 101, 103, 105, 107, 108, 109, 110, 111, 113, 114, 116, 118, 119, 120, 122, 123, 124,  
125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 144, 145,  
146, 147, 148, 150.

**STUDENTS FEEDBACK**

**SEMESTER:**

**Name:**

**Roll No.:**

**Topics Discussed:**

**Topics Understood:**

**Topics requiring Clarification:**

**Comments:**

**Signature**



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Date : 7/12/22

### GRC Report for 2020-2021

Like each academic session, this time also students were informed in their Induction Program about the existence of a GRC to express their views and forward their complaints if any, about academic and other facilities provided by the institution. During the session (2020-21), the college remained closed for almost six months due to the pandemic situation, thus the number of complaints from students are comparatively less in this session.

#### Main grievances

1. Size and standard of the canteen
2. Non availability of bike stand and boys common room
3. Non availability of Recreation Room with some sports items.
4. Need for a proper union room
5. playground
6. Appeal to introduce some important subjects like Geography, Sociology, Psychology and introduction of Honours Course in Philosophy
7. Appeal to make some adjustment in college time table.
8. To reactivate the Pad Machine in the Girls Common Room. Etc.

Some of these grievances are solved by the authority and some are in the process of successful solution. GRC Meetings took place twice in a month to discuss various issues and submitted the report to the authority about the resolution of the meeting.

One major grievance was received from teaching staff about allotment of large and spacious Faculty Rooms for each department in view of increasing number of teachers and the authority solved this problem by constructing new departmental rooms.

*B. B. B.*  
Convener GRC.

*A. A. A.*  
Co-ordinator, IQAC  
S. B. Deorah College  
Ulubari, Guwahati-7

*D. D. D.*  
Principal  
S.B. Deorah College  
Ulubari, Guwahati-7

## ZOOLOGY: PROGRAMME OUTCOMES

<b>Programme Specific Outcomes</b>	<b>BSc Zoology</b> <b>PSO1.</b> Develop insight and improve their analytical communication and professional skills <b>PSO2.</b> Understanding the morphology and functional characteristics at cellular and sub-cellular (molecular) level <b>PSO3.</b> Enhancing the technical skills for experimental purposes
<b>Course Outcomes</b>	<b>Course : ZOH101, Course Title: ZOOLOGY THEORY</b> <b>CO1</b> Understanding of relationships between organisms through Systematics and cell biology <b>CO2</b> Describe type study <b>CO3</b> Describe mammalian physiology <b>CO4</b> Describe eugenics and evolution <b>CO5</b> Elaborate ecology
	<b>Course ZOM101, Course Title: LOWER INVERTEBRATES</b> Lower invertebrates, introduction, symmetry, coelom, acoelom and parasitism, <b>CO1</b> Classify and characterize Phylum-Protozoa <b>CO2</b> Classify and characterize Phylum-Porifera <b>CO3</b> Classify and characterize Phylum-Coelenterata <b>CO4</b> Classify and characterize Phylum-Platyhelminthes <b>CO5</b> Classify and characterize Phylum-Neo-platyhelminthes
	<b>Course ZOM102, Course Title: HIGHER INVERTEBRATES</b> General characteristics and Classification up to classes of each phylum: <b>CO1</b> Introduction to Coelomates <b>CO2</b> Introduction to Annelida <b>CO3</b> Introduction to Arthropoda <b>CO4</b> Introduction to Mollusca <b>CO5</b> Introduction to Echinodermata
	<b>Course ZOH281, Course Title: BASICS OF NEUROSCIENCE</b> <b>CO1</b> Introduction to Neuroscience <b>CO2</b> Introduction to Nervous system <b>CO3</b> Significance of Ion channels and neurotransmitters <b>CO4</b> Understanding of cellular and Molecular neurophysiology <b>CO5</b> Describe techniques to study brain
	<b>ZOM201, Course Title: CHORDATA I</b> <b>CO1</b> Characteristics and Outline Classification of Protochordata <b>CO2</b> Characteristics and Outline of Classification of Origin of Chordata <b>CO3</b> Characteristics and Outline Classification of Pisces and Amphibia <b>CO4</b> Characteristics and Outline Classification Reptiles and Aves <b>CO5</b> Characteristics and Outline Classification of Mammalia

	<p><b>ZOM202, Course Title: CHORDATA II</b></p> <p>Comparative vertebrate anatomy of the systems with respect to piscean, amphibian, reptilian, avian and mammalian</p> <p><b>CO1</b> Describe the anatomy of Integumentary System  <b>CO2</b> Describe the anatomy of Digestive System  <b>CO3</b> Describe the anatomy of Circulatory and Respiratory Systems  <b>CO4</b> Describe the anatomy of Urogenital System  <b>CO5</b> Describe the anatomy of Neuro-endocrine System</p>
	<p><b>ZOM301, Course Title: ANIMAL ECOLOGY</b></p> <p><b>CO1</b> Describe the history, introduction and nature of ecosystem  <b>CO2</b> Explain the biogeocycles and laws  <b>CO3</b> Describe population &amp; community ecology  <b>CO4</b> Describe wild life conservation and management  <b>CO5</b> Develop understanding of aquatic ecology</p>
	<p><b>ZOM302, Course Title: CELL BIOLOGY</b></p> <p><b>CO1</b> Give the overview of cell  <b>CO2</b> Describe the structure and function of plasma membrane  <b>CO3</b> Structure, functions and interactions of cell organelles and inclusions  <b>CO4</b> Detail description of cell division  <b>CO5</b> Describe structure and function of chromosomes</p>
	<p><b>ZOM303, Course Title: GENETICS</b></p> <p><b>CO1</b> Explain Mendalism expanding Mendel's Laws  <b>CO2</b> Describe gene action  <b>CO3</b> Describe mutation, mutagenesis and repair  <b>CO4</b> Explain sex determining systems and dosage compensation  <b>CO5</b> Explain the process of gene expression and applications</p>
	<p><b>ZOM401, Course Title: ANIMAL PHYSIOLOGY</b></p> <p><b>CO1</b> Develop understanding for the fundamental concepts of physiology of digestion  <b>CO2</b> Develop understanding of blood vascular system  <b>CO3</b> Develop the fundamental concepts of physiology of respiration  <b>CO4</b> Familiarize students with renal physiology and muscle  <b>CO5</b> Develop basic understanding of endocrine system and its interactions with other systems</p>
	<p><b>ZOM402, Course Title: EVOLUTION &amp; ZOOGEOGRAPHY</b></p> <p><b>CO1</b> Trace the Origin of life  <b>CO2</b> Established theories of evolution  <b>CO3</b> Correlate the theories with the evidences  <b>CO4</b> Explain the genetic basis of evolution  <b>CO5</b> Describe zoogeography</p>

	<p><b>ZOM403, Course Title: MICROBIOLOGY</b></p> <p><b>CO1</b> Introduction to Microbiology  <b>CO2</b> Describe the types and molecular structure of viruses  <b>CO3</b> Describe the types and structure of bacteria  <b>CO4</b> Most prevalent microbial diseases  <b>CO5</b> Understanding of applied Microbiology</p>
	<p><b>ZOM501, Course Title: BIOLOGICAL CHEMISTRY</b></p> <p><b>CO1</b> Fundamental concept of bioenergetics in cellular processes  <b>CO2</b> Describe the structure of amino acids and proteins  <b>CO3</b> Describe the structure and function of enzymes  <b>CO4</b> Describe the structure of carbohydrates  <b>CO5</b> Describe the structure of lipids and nucleic acids</p>
	<p><b>ZOM502, Course Title: PARASITOLOGY</b></p> <p><b>CO1</b> Explain the phenomenon of living together and symbiosis  <b>CO2</b> Describe parasitism  <b>CO3</b> Describe the life histories of some protozoan and helminth  <b>CO4</b> Describe the life histories of arthropods  <b>CO5</b> Understanding of applied parasitology</p>
	<p><b>ZOM503, Course Title: DEVELOPMENTAL BIOLOGY</b></p> <p><b>CO1</b> Develop the basic concepts of development  <b>CO2</b> Explain the fundamental concept of embryogenesis  <b>CO3</b> Explain the fundamental concept of Organogenesis  <b>CO4</b> Describe the developmental model systems- invertebrates  <b>CO5</b> Describe the developmental model systems- vertebrates</p>
	<p><b>ZOM504, Course Title: ENTOMOLOGY</b></p> <p><b>CO1</b> Insect taxonomy to introduce students to fascinating world of insects  <b>CO2</b> Describe the general insect morphology  <b>CO3</b> Describe the insect physiology  <b>CO4</b> Fundamental understanding of insect pathology  <b>CO5</b> Insect's role as a source for commercial products (honey, wax, silk, lac and medicines), in forensic science; as vectors; in pest control</p>
	<p><b>ZOM505, Course Title: WILDLIFE CONSERVATION &amp; MANAGEMENT</b></p> <p><b>CO1</b> Wildlife habitat studies will enable students to solve problems of conservation  <b>CO2</b> Describe habitat management  <b>CO3</b> Understanding of Conservation will help protection of wildlife  <b>CO4</b> Explain wildlife trade that may enhance the economy  <b>CO5</b> Wildlife legislation will systematically organize the understanding of wildlife conservation, trade and management</p>

	<p><b>ZOM601, Course Title: IMMUNOLOGY</b></p> <p><b>C01</b> Describe the evolution of immunology, historical perspective  <b>C02</b> Describe the fundamental concept of Innate and adaptive immunity  <b>C03</b> Develop the basic concepts of Antigenicity and immunogenicity  <b>C04</b> Describe the molecular structure and function of major histocompatibility complex  <b>C05</b> Describe the types of hypersensitivity and mechanism of tolerance</p>
	<p><b>ZOM602, Course Title: QUANTITATIVE BIOLOGY</b></p> <p><b>C01</b> Introduction to biostatistics  <b>C02</b> Explain descriptive statistics  <b>C03</b> Explain correlation and regression  <b>C04</b> Explain graphical representation of data  <b>C05</b> Fundamental concept of Hypothesis testing</p>
	<p><b>ZOM603, Course Title: MOLECULAR GENETICS</b></p> <p><b>C01</b> Describe the fundamental concept of DNA Replication  <b>C02</b> Describe the fundamental concept of Transcription  <b>C03</b> Explain the molecular events in Translation  <b>C04</b> Describe the types of Posttranslational modifications (PTM)  <b>C05</b> Describe Gene Regulation and structure and function of Transposons</p>
	<p><b>ZOM604, Course Title: Neurobiology</b></p> <p><b>C01</b> Understanding of Brain Architecture  <b>C02</b> Fundamental concept of how brain develops-Developmental Neuroanatomy  <b>C03</b> Fundamental concepts of Neurophysiology  <b>C04</b> Fundamental concepts of Neuro-endocrinology  <b>C05</b> Describe the Neurobiology of aging and sleep</p>

<b>Programme Specific Outcomes</b>	<p><b>MSc Zoology</b></p> <p><b>PSO1.</b> Develop insight and improve their analytical communication and professional skills</p> <p><b>PSO2.</b> Understanding the morphology and functional characteristics at cellular and sub-cellular (molecular) level</p> <p><b>PSO3.</b> Focusing to prepare them with research-oriented approach in frontier areas of research in Zoology</p>
<b>Course Outcomes</b>	<p><b>ZOM701, Course Title: CELL &amp; MOLECULAR BIOLOGY</b></p> <p><b>CO1</b> Explain the molecular structure and function of cell membrane</p> <p><b>CO2</b> Describe Genome Organization</p> <p><b>CO3</b> Explain the molecular events in DNA replication and Repair</p> <p><b>CO4</b> Explain the mechanism of RNA processing</p> <p><b>CO5</b> Explain the role of Mobile DNA Elements</p>
	<p><b>ZOM702, Course Title: RESOURCE MANAGEMENT STRATEGIES</b></p> <p><b>CO1</b> Describe the Environmental challenges</p> <p><b>CO2</b> Describe the impact of environmental challenges on climate change</p> <p><b>CO3</b> Describe alternative resources</p> <p><b>CO4</b> Explain the process of Bio-remediation</p> <p><b>CO5</b> Describe Resource Management and conservation policies</p>
	<p><b>ZOM703, Course Title: TOXICOLOGY</b></p> <p><b>CO1</b> Describe the applications of Toxicology</p> <p><b>CO2</b> Explain the mechanism of Toxicity (Xenobiotic Metablism)</p> <p><b>CO3</b> Explain organ Toxicity</p> <p><b>CO4</b> Explain specific responses of Toxicity: Mutagenesis</p> <p><b>CO5</b> Identify the classification of Toxic Substances</p>
	<p><b>ZOM704, Course Title: INSTRUMENTATION &amp; STATISTICAL APPLS.</b></p> <p><b>CO1</b> Explain the concepts of microscopy</p> <p><b>CO2</b> Describe various separation techniques</p> <p><b>CO3</b> Describe the basic principle of spectrometry and radiography</p> <p><b>CO4</b> Describe various Immunological Techniques</p> <p><b>CO5</b> Describe biostatistical Techniques</p>
	<p><b>ZOM705, Course Title: ENVIRONMENTAL PARASITOLOGY</b></p> <p><b>CO1</b> Describe parasitism</p> <p><b>CO2</b> Describe environmental protozoology</p> <p><b>CO3</b> Describe the Trematodes</p> <p><b>CO4</b> Describe Cestodes and Nematodes</p> <p><b>CO5</b> Describe Parasitic Arthropodes</p>
	<p><b>Course Number: ZOM801, Course Title: WILDLIFE TECHNIQUES</b></p> <p><b>CO1</b> Understanding of basic wild life research techniques</p>



	<p><b>C02</b> Explain Population Analysis</p> <p><b>C03</b> Fundamental concept of Nutrition and Bioenergetics</p> <p><b>C04</b> Describe Habitat Management</p> <p><b>C05</b> Describe wild life health and disease monitoring</p>
	<p><b>ZOM802, Course Title: BIOCHEMISTRY</b></p> <p><b>C01</b> Structure of biomolecule and bioenergetics</p> <p><b>C02</b> Fundamental understanding of Proteins</p> <p><b>C03</b> Explain Enzyme catalysis and kinetics</p> <p><b>C04</b> Describe Metabolism-Catabolism</p> <p><b>C05</b> Describe Metabolism-Anabolism</p>
	<p><b>ZOM803, Course Title: ANIMAL BEHAVIOUR</b></p> <p><b>C01</b> Explain the relationship of behaviour and Cognition</p> <p><b>C02</b> Explain Rhythmic behaviours</p> <p><b>C03</b> Explain Social behaviours</p> <p><b>C04</b> Explain feeding and Reproductive behavior</p> <p><b>C05</b> Describe behavior assessment</p>
	<p><b>ZOM804, Course Title: ADVANCED PHYSIOLOGY</b></p> <p><b>C01</b> Explain the molecular mechanism in muscle Physiology</p> <p><b>C02</b> Describe various physiology disorders and their detection</p> <p><b>C03</b> Explain hormones Regulation</p> <p><b>C04</b> Explain thermoregulation</p> <p><b>C05</b> Explain stress Regulation</p>
	<p><b>ZOM805, Course Title: RECENT TRENDS IN BIOLOGY</b></p> <p><b>C01</b> Describe command and control System</p> <p><b>C02</b> Describe cell-cell interactions and Biosignaling</p> <p><b>C03</b> Develop the fundamental concepts of Quantum Biology</p> <p><b>C04</b> Explain the mechanism of antibody diversity in immune system</p> <p><b>C05</b> Understanding of Intellectual property Rights and Ethics</p>

Courses	PO1	PO2	PO3	PO4	PO5	PO6	PO7
<b>B.Sc Zoology</b>							
<b>ZOH 101</b>	√	√	√	√	√	√	√
<b>ZOH 102</b>	√	√	√	√	√	√	√
<b>ZOW 101</b>	√	√		√	√	√	√
<b>ZOW 102</b>	√	√		√	√	√	√
<b>ZOM 101</b>	√	√		√	√	√	√
<b>ZOM 102</b>	√	√		√	√	√	√
<b>ZOM 103</b>	√	√		√	√	√	√
<b>ZOM 104</b>	√	√		√	√	√	√
<b>ZOH 281</b>	√	√		√	√	√	√
<b>ZOH 201</b>	√	√		√	√	√	√
<b>ZOH 202</b>	√	√		√	√	√	√
<b>ZOW 201</b>	√	√		√	√	√	√
<b>ZOW 202</b>	√	√		√	√	√	√
<b>ZOM 201</b>	√	√		√	√	√	√
<b>ZOM 202</b>	√	√		√	√	√	√
<b>ZOM 203</b>	√	√		√	√	√	√
<b>ZOM 204</b>	√	√		√	√	√	√
<b>ZOM 301</b>	√	√	√	√	√	√	√
<b>ZOM 302</b>	√	√		√	√	√	√
<b>ZOM 303</b>	√	√		√	√	√	√
<b>ZOM 304</b>	√	√	√	√	√	√	√
<b>ZOM 305</b>	√	√		√	√	√	√
<b>ZOM 401</b>	√	√		√	√	√	√
<b>ZOM 402</b>	√	√	√	√	√	√	√
<b>ZOM 403</b>	√	√		√	√	√	√
<b>ZOM 404</b>	√	√		√	√	√	√
<b>ZOM 405</b>	√	√		√	√	√	√
<b>ZOM 501</b>	√	√		√	√	√	√
<b>ZOM 502</b>	√	√	√	√	√	√	√
<b>ZOM 503</b>	√	√	√	√	√	√	√
<b>ZOM 504</b>	√	√	√	√	√	√	√
<b>ZOM 505</b>	√	√	√	√	√	√	√
<b>ZOM 506</b>	√	√		√	√	√	√
<b>ZOM 601</b>	√	√		√	√	√	√
<b>ZOM 602</b>	√	√		√	√	√	√
<b>ZOM 603</b>	√	√		√	√	√	√
<b>ZOM 604</b>	√	√		√	√	√	√

ZOM 605	√	√		√	√	√	√
ZOM 606	√	√	√	√	√	√	√
ZOM 701	√	√	√	√	√	√	√
ZOM 702	√	√	√	√	√	√	√
ZOM 703	√	√	√	√	√	√	√
ZOM 704	√	√		√	√	√	√
ZOM 705	√	√	√	√	√	√	√
ZOM 706	√	√		√	√	√	√
ZOM 801	√	√	√	√	√	√	√
ZOM 802	√	√		√	√	√	√
ZOM 803	√	√	√	√	√	√	√
ZOM 804	√	√	√	√	√	√	√
ZOM 805	√	√		√	√	√	√
ZOM 806	√	√	√	√	√	√	√
ZOM 001	√	√		√	√	√	√
ZOM 002	√	√	√	√	√	√	√