3.4.6: E-Content Development

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TEQIP-3
Technical Education Quality Improvement Programme

TEQIP Online Certification

(Funded by the Ministry of HRD, Govt. of India)

NPIU
National Project Implementation Unit

This certificate is awarded to

Natasha Gomes

Goa University

We recognize his/her contribution as a **Teaching Associate** towards the successful completion of the **two week**

Digital Transformation In Teaching Learning Process

course organized by NPIU, and conducted by **IIT Bombay** on **SWAYAM** between January 2020 to April 2020.
We are glad to present this certificate as a recognition of his/her efforts.

Prof. P M Khodke
Central Project Advisor
NPIU, TEQIP III

Prof. Sridhar Iyer
Instructor
IDP-ET, IIT Bombay

Dr. Sameer Sahasrabudhe
Instructor
IDP-ET, IIT Bombay

Course offered by
Indian Institute of Technology Bombay

POWERED BY
FREE ONLINE EDUCATION
swayam
शिक्षित भारत, उन्नत भारत

THE WORLD BANK

Centre for Distance Engineering Education Programme (C-DEEP)
Mathematics Building, Ground floor,
Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

Tel : (+91-22) 2576 4820
Fax : (+91-22) 2576 4812
Email : cdeep@iitb.ac.in
Website : www.cdeep@iitb.ac.in

iit bombay
हीरक जयंती २०१८
Diamond Jubilee 2018
एक साथ प्रगति की ओर
Achieving Excellence Together

Letter of Appreciation

presented to

Irene Silveira

Assistant Professor
French and Francophone Studies
Goa University

We recognize his/her contribution as a ***Discussion Forum Moderator*** *in the successful completion of the "Designing Learner centric MOOCs" (LCM) course conducted by ET department of IIT Bombay on SWAYAM, from January 2021 till February 2021, and are glad to present this letter of appreciation as a recognition of his/her efforts.*

Prof. Sahana Murthy
Course Coordinator

Interdisciplinary Programme in Educational Technology (ET)
Mathematics Building, Ground floor,
Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

Tel : (+91-22) 2576 4820
Fax : (+91-22) 2576 4812
Email : office.et@iitb.ac.in
Website : www.et.iitb.ac.in

IIT Bombay

LETTER OF APPRECIATION

presented to

JEANETTE BARBOSA NORONHA
Assistant Professor of Portuguese and Lusophone Studies
Shenoi Goembab School of Languages and Literature, Goa University

We recognize her contribution as a Discussion Forum Moderator in the successful completion of the "Designing Learner centric MOOCs" (LCM) course conducted by Interdisciplinary Programme in Educational Technology, IIT Bombay on NPTEL-SWAYAM, from January 2024 till March 2024, and are glad to present this letter of appreciation as a recognition of her efforts.

26-04-2024

Prof. Sahana Murthy
Professor, IIT Bombay

Interdisciplinary Programme in
Educational Technology (ET)
Mathematics Building, Ground floor,
Indian Institute of Technology Bombay
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IIT Bombay

Letter of Appreciation

presented to

Dr. Natasha M. Gomes
Assistant Professor
Goa University

We recognize his/her contribution as a Teaching Associate in the successful completion of the "Designing Learner centric MOOCs" (LCM) course conducted by Educational Technology department, IIT Bombay on NPTEL-SWAYAM, from January 2023 till February 2023, and are glad to present this letter of appreciation as a recognition of his/her efforts.

Prof. Sahana Murthy
Instructor
Learner Centric MOOC Course Jan 2023.
IDP in Educational Technology, IIT Bombay,

Date: 7th April 2023

Centre for Distance Engineering Education Programme (C-DEEP)
Mathematics Building, Ground floor,
Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

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Website : www.et.iitb.ac.in

IIT Bombay

LETTER OF APPRECIATION

presented to

Dr. POURNIMA DHUME SHINKRE
Assistant Professor in Financial Services
Goa Business School, Goa University

We recognize her contribution as a Discussion Forum Moderator in the successful completion of the "Designing Learner centric MOOCs" (LCM) course conducted by Interdisciplinary Programme in Educational Technology, IIT Bombay on NPTEL-SWAYAM, from January 2024 till March 2024, and are glad to present this letter of appreciation as a recognition of her efforts.

26-04-2024

Prof. Sahana Murthy
Professor, IIT Bombay

Interdisciplinary Programme in
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Mathematics Building, Ground floor,
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IIT Bombay

Letter of Appreciation

presented to

Dr. Irene C. Silveira
Assistant Professor
Goa University

We recognize his/her contribution as a Teaching Associate in the successful completion of the "Designing Learner centric MOOCs" (LCM) course conducted by Educational Technology department, IIT Bombay on NPTEL-SWAYAM, from January 2023 till February 2023, and are glad to present this letter of appreciation as a recognition of his/her efforts.

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Instructor
Learner Centric MOOC Course Jan 2023.
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Date: 7th April 2023

Interdisciplinary Programme in
Educational Technology (ET)
Mathematics Building, Ground floor,
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Tel : (+91-22) 2576 4820
Fax : (+91-22) 2576 4812
Email : office.et@iitb.ac.in
Website : www.et.iitb.ac.in

IIT Bombay

LETTER OF APPRECIATION

presented to

Dr. NATASHA MARIA GOMES
Assistant Professor, Goa University,
Goa, India

We recognize her contribution as part of the Content Development Team in the successful completion of the 8-week MOOC titled 'Designing Learner-Centric MOOCs' conducted from January to March 2024 by Interdisciplinary Programme in Educational Technology, IIT Bombay on NPTEL-SWAYAM.

As part of the Content Development Team, her responsibilities included writing and reviewing 4 new modules/weeks comprising video scripts, reading materials, presentation slides, formative assessments and discussion forum activities. She contributed to the development of eContent as per the 4 quadrant structure of SWAYAM MOOCs.

We are glad to present this letter of appreciation as a recognition of her efforts.

Sahana Murthy

17-05-2024

Prof. Sahana Murthy
Professor, IIT Bombay

विद्यया ऽमृतमश्नुते

एन सी ई आर टी
NCERT

CERTIFICATE

OF COMPLETION

This is to certify that **Dr. Natasha Maria Gomes, Assistant Professor, Goa University, Goa** has contributed as a Resource Person in face to face workshop to **'Finalization of the Training Package on 'Development of Online Courses'** from **27-30 January, 2024** organised by Central Institute of Educational Technology (CIET), NCERT, Sri Aurobindo Marg, New Delhi.

Prof. Amarendra P. Behera	**Prof. Indu Kumar**	**Dr. Angel Rathnabai**
Joint Director	Head, DICT & TD	Programme Coordinator
CIET-NCERT	CIET-NCERT	CIET-NCERT

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Joint Director	Head, DICT & TD	Programme Coordinator
CIET-NCERT	CIET-NCERT	CIET-NCERT

GOA BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION
(A Corporate Statutory Body Constituted by an Act of the State Legislature)
ALTO BETIM – GOA 403 521
Website: www.gbshse.gov.in email: sec-gbshse.goa@nic.in
☎ (0832) 2417593 Fax: (0832) 2414289

GBSHSE/ACAD/DIKSHA/2020/ Date: 24/11/2020

ORDER

Sub: DIKSHA –Content Curation/Creation Team (SSC/HSSC)

The services of the Teachers, listed in Annexure are required to work as part of the Content Curation/ Creation Team of DIKSHA- VidyaDaan: Goa. The team members shall work through online mode wherever they have better connectivity, either from home or their concerned institution.

This issues with the approval of the Secretary (Education).

sd/-
(Ramkrishna S. Samant)
Chairman

Encl: List of the Teachers SSC/HSSC.

Copy to:

1) The Director, Directorate of Education, Porvorim-Goa
2) The Director, SCERT, Porvorim-Goa
3) Heads of the concerned Institution (to facilitate the teachers to work through on-line mode.)
4) PA to Chairman/ Secretary GBSHSE- Alto- Betim- Goa.

Content Curation Team

Portuguese T.L X SSC

Name of the Coordinator: Sandra Noronha D'Silva –(X)

Mobile No: Mob: 9423886968

Email I.D. : - sandranoronhadsilva05@gmail.com

Sr. No.	Name of the Teacher	Name & address of the School	Mobile No. & Email Id
1.	Sandra Noronha D'Silva (Coordinator)-(X)	Fatima Convent H.S.	9423886968 Sandranoronhadsilva05@gmail.com
2	Maria Filomena De Almeida e Dourado (Member)	Regina Mundi H.S.Vasco	9850464924 reginamundischool@gmail.com

Content Creation Team

PortugueseT.L X SSC

Name of the Coordinator: Sandra Noronha D'Silva –(X)

Mobile No: Mob: 9423886968

Email I.D. : - sandranoronhadsilva05@gmail.com

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3.	Melvina Fernandes (Member)	Our Lady Of the Rosary H.S.	9850375583 rosaryschoolgoa@rediffmail.com
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Content Curation Team

French T.L SSC

Name of the Coordinator: Ms. Cora Coelho Abreu
Mobile No: 9822983730
Email I.D. : coraabreu@gmail.com

Sr. No.	Name of the Teacher	Name & address of the School	Mobile No. & Email Id
1.	Ms. Cora Coelho Abreu (Coordinator)	Loyola Higher Secondary School, Margao, Salcete - Goa.	9822983730 coraabreu@gmail.com
2.	Ms. Jane Clare Dantas e Fernandes (Member)	Our Lady of the Rosary Higher Secondary School, Dona Paula, Tiswadi - Goa.	9730591135 janedeferns@gmail.com
3.	Ms. Mary Anne R. D'Souza (Member)	Vidya Vikas Mandal's R.M.S. Higher Secondary School, Margao, Salcete - Goa.	9923144429 maryanne.dsouza@vvm.edu.in
4.	Ms. Maria Teresa Abranches (Member)	Lourdes Convent High School, Saligao, Bardez - Goa.	9822129178 marieabranches@gmail.com
5.	Ms. Nelsa Rodrigues (Member)	Vidya Mandir, Adarshnagar, Airport Road, Chicalim, Vasco – Goa.	9822308757 nelrod008@gmail.com
6.	Ms. Sybil Rodrigues (Member)	Our Lady of Rosary High School, Near NIO, P.O. Dona Paula - Goa.	9422393269 sybilr1965@gmail.com
7.	Ms. Lucilia M. Gonsalves (Member)	Holy Cross High School, Siolim, Bardez - Goa.	9822481654 luciliagonsalves@gmail.com
8	Tanya Pereira (Add) (Member)	St. Anthony's High School, Monte de Guirim, Bardez Goa.	9850475840 tannyereira@gmail.com
9	Julitta Remedios (Member)	St. Britto High School, Datta wadi, Mapusa-Goa	9970701251 Julittaremedios30@gmail.com
10	Merilyn pinto do Rosario (Member)	Holy Spirit Institute, Vasco-Goa	9579998672 Lynpin2000@gmail.com
11	Ms. Shourya Dalvi (Member)	Goa University, Taleigao Plateau, Goa	7620739278 shourya@unigoa.ac.in

Content Curation Team
French

HSSC -II

Name of the Coordinator: Ms. Cora Coelho Abreu
Mobile No.: 9822983730
Email Id.: coraabreu@gmail.com

Sr. No.	Name of the Teacher	Name & address of the School	Mobile No. & Email Id
1.	Ms. Cora Coelho Abreu (Coordinator)	Loyola Higher Secondary School, Margao, Salcete - Goa.	9822983730 coraabreu@gmail.com
2.	Ms. Jane Clare Dantas e Fernandes (Member)	Our Lady of the Rosary Higher Secondary School, Dona Paula, Tiswadi - Goa.	9730591135 janedeferns@gmail.com
3.	Ms. Mary Anne R. D'Souza (Member)	Vidya Vikas Mandal's R.M.S. Higher Secondary School, Margao, Salcete - Goa.	9923144429 maryanne.dsouza@vvm.edu.in
4.	Ms. Maria Teresa Abranches (Member)	Lourdes Convent High School, Saligao, Bardez - Goa.	9822129178 marieabranches@gmail.com
5.	Ms. Nelsa Rodrigues (Member)	Vidya Mandir, Adarshnagar, Airport Road, Chicalim, Vasco – Goa.	9822308757 nelrod008@gmail.com
6.	Ms. Sybil Rodrigues (Member)	Our Lady of Rosary High School, Near NIO, P.O. Dona Paula - Goa.	9422393269 sybilr1965@gmail.com
7.	Ms. Lucilia M. Gonsalves (Member)	Holy Cross High School, Siolim, Bardez - Goa.	9822481654 luciliagonsalves@gmail.com
8	Tanya Pereira (Member)	St. Anthony's High School, Monte de Guirim, Bardez Goa.	9850475840 tannyereira@gmail.com
9	Julitta Remedios (Member)	St. Britto High School, Datta wadi, Mapusa-Goa	9970701251 Julittaremedios30@gmail.com

10	Merilyn pinto do Rosario (Member)	Holy Spirit Institute, Vasco-Goa	9579998672 Lynpin2000@gmail.com
11	Ms. Shourya Dalvi (Member)	Goa University, Taleigao Plateau, Goa	7620739278 shourya@unigoa.ac.in
12	Natasha Gomes (Member)	Goa University, Taleigao Plateau, Goa	7350755820 natasha@unigoa.ac.in
13	Ms. Elaine Da Costa (Member)	St. Xavier Higher Secondary, Mapusa-Goa	9823535061 elainegoa@yahoo.com

Content Creation Team

French HSSC-II

Name of the Coordinator: Natasha Gomes
Mobile No.: 7350755820

Email Id.: natasha@unigoa.ac.in

Sr. No.	Name of the Teacher	Name & address of the School	Mobile No. & Email Id
1.	Natasha Gomes (XII) (Coordinator)	Goa University, Taleigao Plateau, Goa	7350755820 natasha@unigoa.ac.in
2.	Anthony Gomes (XII) (Member)	Mushtifund Aryaans Higher Secondary School, Cujira Integrated School Complex, Opp. GMC, Cujira, BAMBOLIM, St Cruz, Goa 403202	9637088639 gomesanto0128@gmail.com
3.	Grisel Zuzarte (XII) (Member)	St. Mary's Convent High School District Hospital Rd, Near Mapusa Court, Mapusa, Goa, 403507	9420360513 grisel.zuz.9@gmail.com
4.	Roshito Cotta (XII) (Member)	H.No. 1227, Sonarvaddo, Raia, Salcete, Goa- India, Postal code: 403730	8552069475 roshito26cotta@gmail.com
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6.	Miriam George (XII) (Member)	Palamoottil, Karipuzha, Mavelikkara, Alappuzha, Kerala - 690109	962357672 chotimiria@hotmail.com
7.	Ms. Jane Clare Dantas e Fernandes (Coordinator) (XI)	Our Lady of the Rosary Higher Secondary School, Dona Paula, Tiswadi - Goa.	9730591135 janedeferns@gmail.com
8.	Josefa Pinto (XI) (Member)	Don Bosco HSS, Panjim.	7769086513 josefapinto777@gmail.com
9.	Zina Oommen (XI) (Member)	GVM's N. J. A HSS, Ponda - Goa.	7875796938 ziza3107@gmail.com
10.	Shannon Lobo. (XI) (Member)	T - 1, Lakeview APTS. 'A', Antonio Pacheco Road, Borda - Margao.	8600848032 shannonlobo95@gmail.com

National Council of Educational Research and Training

(CIET), Sri Aurobindo Marg, New Delhi-110016

NCERT/Constituent Unit/Department: DICT, CIET

HONORARIUM RECEIPT

Received a sum of Rs. **2500/-** (Rupees **Two Thousand Five Hundred Only**) from the Head/Honorary Director for acting as a Resource Person in the Training titled **Development of Online Course for State Resource Group (SRG)/ Master Trainers of States, UTs and Autonomous Organizations'** on **4-8 December, 2023**for **One** Day(s) @ **Rs.2500/-** per day.

Signature _____

Name: Dr. Irene Silveira

Designation: Assistant Professor

Address: Goa University - Block B - Taleigao Plateau - Goa - 403206

Mobile No: 9527172191

(For office use)

Verified and passed for payment Rs. _____ /- Rupees

_____

_____

_____only.

Signatures and Name

Asst. Programme Coordinator/SO

Signature and Name

Programme Coordinator

Signature and Name Honorary Director/HOD (With Seal)

Bank Account Details

Name (in block letters):
IRENE CONCEICAO SILVEIRA

Bank Name and
Address: STATE BANK OF INDIA, GOA UNIVERSITY BRANCH

Bank Account No: 20205187849 IFSC Code:
SBIN0004311 Branch Code No
004311 Pan Card No:
BMJPS3210E

Dr. Irene Silveira
11/12/2023

Signature and Name of
Signature of Participant Programme Coordinator
with date

National Council of Educational Research and Training

(CIET), Sri Aurobindo Marg, New Delhi-110016

NCERT/Constituent Unit/Department: DICT, CIET

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Signatures and Name

Asst. Programme Coordinator/SO

Signature and Name

Programme Coordinator

Signature and Name Honorary Director/HOD (With Seal)

Bank Account Details

Name (in block letters):
IRENE CONCEICAO SILVEIRA

Bank Name and
Address: STATE BANK OF INDIA, GOA UNIVERSITY BRANCH

Bank Account No: 20205187849 IFSC Code:
SBIN0004311 Branch Code No
004311 Pan Card No:
BMJPS3210E

Dr. Irene Silveira
11/12/2023

Signature and Name of
Signature of Participant Programme Coordinator
with date

विद्यया ऽमृतमश्नुते

एन सी ई आर टी
NCERT

CERTIFICATE

OF COMPLETION

This is to certify that **Dr. Irene Conceicao Silveira**, **Assistant Professor, Goa University, Goa** has contributed as a Resource Person in Online Training on '**Development of Online Course for State Resource Group(SRG)/ Master Trainers of States, UTs and Autonomous Organizations**' from **4th - 8th December, 2023** organised by Central Institute of Educational Technology (CIET), NCERT, Sri Aurobindo Marg, New Delhi.

Session Date: 04.12.23

Session Title: Online Course : Concept, Need & Scope

Prof. Amarendra P. Behera	**Prof. Indu Kumar**	**Dr. Angel Rathnabai**
Joint Director	Head, DICT & TD	Programme Coordinator
CIET-NCERT	CIET-NCERT	CIET-NCERT

विद्यया ऽमृतमश्नुते

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NCERT

CERTIFICATE

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CIET-NCERT	CIET-NCERT	CIET-NCERT

GOA BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION
(A Corporate Statutory Body Constituted by an Act of the State Legislature)
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☎ (0832) 2417593 Fax: (0832) 2414289

GBSHSE/ACAD/DIKSHA/2020/ Date: 24/11/2020

ORDER

Sub: DIKSHA –Content Curation/Creation Team (SSC/HSSC)

The services of the Teachers, listed in Annexure are required to work as part of the Content Curation/ Creation Team of DIKSHA- VidyaDaan: Goa. The team members shall work through online mode wherever they have better connectivity, either from home or their concerned institution.

This issues with the approval of the Secretary (Education).

sd/-
(Ramkrishna S. Samant)
Chairman

Encl: List of the Teachers SSC/HSSC.

Copy to:

1) The Director, Directorate of Education, Porvorim-Goa
2) The Director, SCERT, Porvorim-Goa
3) Heads of the concerned Institution (to facilitate the teachers to work through on-line mode.)
4) PA to Chairman/ Secretary GBSHSE- Alto- Betim- Goa.

B05251

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

Alto – Porvorim – Goa

Certificate of Appreciation

This is to certify that **Ms. Natasha Gomes** of **Goa University,Taleigao** worked as a **Coordinator** of the Content Curation and Creation Team of DIKSHA in 'French'12th Std. She completed the work assigned to her relating to Creation / Curation of Content for uploading in DIKSHA Portal.

This Council appreciates the work done by **Ms. Natasha Gomes.**

Date: 03/11/2022
Place: Alto-Porvorim

(Nagaraj G. Honnekeri)
Director - SCERT

B05251

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

Alto – Porvorim – Goa

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This Council appreciates the work done by **Ms. Natasha Gomes.**

Date: 03/11/2022
Place: Alto-Porvorim

(Nagaraj G. Honnekeri)
Director - SCERT

विद्यया ऽमृतमश्नुते

एन सी ई आर टी
NCERT

CERTIFICATE

OF COMPLETION

This is to certify that **Dr. Natasha Maria Gomes, Assistant Professor, Goa University, Goa** has contributed as a Resource Person in face to face workshop to **'Develop MOOCs on 'Development of Online Courses'** from **24-25 January, 2024** organised by Central Institute of Educational Technology (CIET), NCERT, Sri Aurobindo Marg, New Delhi.

Prof. Amarendra P. Behera	**Prof. Indu Kumar**	**Dr. Angel Rathnabai**
Joint Director	Head, DICT & TD	Programme Coordinator
CIET-NCERT	CIET-NCERT	CIET-NCERT

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CIET-NCERT	CIET-NCERT	CIET-NCERT

National Council of Educational Research and Training
(CIET), Sri Aurobindo Marg, New Delhi-110016
NCERT/Constituent Unit/Department: DICT, CIET

HONORARIUM RECEIPT

Received a sum of Rs. **5000/-** (Rupees **Five Thousand Only**) from the Head/Honorary Director for acting as a Resource Person in the Training titled "**Workshop for the development of the TPCI level 02 Modules in Online Mode**" on **5 - 6 February 2024.** for Two Day(s) @ **Rs.2500/-** per day.

Signature

Name: _____DR. NATASHA MARIA GOMES
Designation: ___ASSISTANT PROFESSOR
Address: ____GOA UNIVERSITY, GOA
Mobile No: _____7350755820__

(For office use)

Verified and passed for payment Rs. _____ /- Rupees_____
_____only.

Signature and Name
Signatures and Name
Programme Coordinator **Asst. Programme**
Coordinator/SO

Signature and Name Honorary Director/HOD (With Seal)

Bank Account Details

Name (in block letters): _____NATASHA MARIA GOMES_____
Bank Name and Address: STATE BANK OF INDIA, GOA UNIVERSITY COMPLEX, TALEIGAO , GOA_____
Bank Account No: _____35964624718_____
IFSC Code: _____SBIN0004311_____
Branch Code No _____0004311_____
Pan Card No: ____AXDPG5856C_____

Signature and Name of the Participant: NATASHA MARIA GOMES

Signature of Programme Coordinator
with date

National Council of Educational Research and Training
(CIET), Sri Aurobindo Marg, New Delhi-110016
NCERT/Constituent Unit/Department: DICT, CIET

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with date

Azadi Ka Amrit Mahotsav

केन्द्रीय शैक्षिक प्रौद्योगिकी संस्थान
Central Institute of Educational Technology
राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्
NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

G20 भारत 2023 INDIA

Certificate

OF APPRECIATION

This is to certify that ……**Ms. Natasha Maria Gomes, Assistant Professor**……

of ……**French & Francophone Studies, Goa University, Goa-403206**……

has contributed as a Resource Person in the online training on "Development of Online Course" from 27 February 2023 - 03 March 2023 for State Resource Groups/ Master Trainers of states/ UTs and autonomous organizations conducted by Central Institute of Educational Technology (CIET), NCERT, New Delhi-110016.

Session Title:……**Curation and creation of online courses**……

Date: ……**01/03/2023**……

Prof. Amarendra Prasad Behera	**Prof. Indu Kumar**	**Dr. Angel Rathnabai**
Joint Director	Head, DICT & TD	Asstt. Prof. & Programme Coordinator
CIET-NCERT	CIET-NCERT	CIET-NCERT

Azadi Ka Amrit Mahotsav

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NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

No. F. 20-11/2023-24/DICT/CIET

Date: 6th October, 2023

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Irene Conceicao Silveira, Assistant Professor, Goa University, Goa - 403206** has participated in the **Workshop 'To develop MOOCs on Development of Online Courses and Review of Training Package'** in Face-to-Face Mode for **four days** from **October 3rd- 6th, 2023** at CIET, NCERT, New Delhi. She was relieved in the evening of October 6th, 2023

Dr. Angel Rathnabai
(Assistant Professor)
CIET, NCERT

चाचा नेहरू भवन श्री अरविंदो मार्ग, नई दिल्ली–110016
Chacha Nehru Bhawan, Sri Aurbindo Marg, New Delhi - 110016
Phone : 91-11-26864801 - 10 | Fax : 91-11-26864141 | Extn. :
Website : www.ncert.nic.in, www.ciet.nic.in

केन्द्रीय शैक्षिक प्रौद्योगिकी संस्थान
Central Institute of Educational Technology
राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्
NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

No. F. 20.04/2023-24/DICT/CIET Date: 09 March, 2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Dr. Natasha Maria Gomes, Assistant Professor, Goa University, Goa 403206** has contributed as a resource person in the **"Workshop to review the Techno-pedagogy Content Integration Package" for six days** from **March 04th - 09th, 2024** organized at CIET, NCERT, New Delhi. She was relieved on 09th March (evening)

Dr. Angel Rathnabai
Assistant Professor, CIET-NCERT
(Programme Coordinator)

चाचा नेहरू भवन, श्री अरबिंद मार्ग, नई दिल्ली - 110016
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NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

F.No-20.12/2022-23/CIET/DICT&TD Date: 22th February, 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms Natasha Maria Gomes, Assistant Professor, Goa University Goa – 403206** has participated **as a resource person** in the workshop on **Developing Training Package on 'Development of Online Course' from February 20th to 24nd , 2023** in face to face mode. She was relieved on February 24nd , 2023 (evening).

Dr. Angel Rathnabai

(**Programme Coordinator**)

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ताळगांव पठार
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G20 भारत 2023 INDIA

Goa University
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Tel: +91-8669609048
Email: registrar@unigoa.ac.in
Website: www.unigoa.ac.in

(Accredited by NAAC)

GU/Admn.(T)/2023/600

Date: 03/09/2023
10

ORDER

Sanction of the Vice-Chancellor is hereby conveyed to the following faculty members permitting them to record audio-video lectures for the Konkani modules of Project DISHTAVO, at the DISHTAVO studios located at the UGC-HRDC building, Goa University:

Sr. No.	Name of the faculty	Position	School	No. Of Modules Pending
1	Dr. Avelyno Hubert D'Costa	Assistant Prof.	SBSB	11
2	Dr. Minal Desai Shirodkar	Assistant Prof.	SBSB	9
3	Dr. Narayan Dattaram Parab	Assistant Prof.	GBS	8
4	Dr. Mukund Vishwanath Narvekar	Assistant Prof.	SIAS	40
5	Mr. Brandon Fernandes	Assistant Prof.	SPAS	30
6	Mr. Vinod O. Kankonkar	Assistant Prof.	DDKSSSBS	18
7	Dr. Paresh Raghuvir Lingadkar	Assistant Prof.	GBS	9
8	Dr. Mridini Mahadev Gawas	Assistant Prof.	SPAS	43
9	Dr. Vinod Kashinath Mandrekar	Assistant Prof.	SCS	3
10	Dr. Shrikant Ramesh Naik	Assistant Prof.	SCS	1
11	Dr. Bhargav K. Alavani	Assistant Prof.	SPAS	27
12	Ms. Sangeeta Tate	Assistant Prof.	DDKSSSBS	21
13	Ms. Dviti Mapari	Assistant Prof.	SBSB	19
14	Ms. Preeti Pereira	Assistant Prof.	SBSB	28
15	Ms. Gandhita Kundaikar	Assistant Prof.	SBSB	4
16	Dr. Marlon Sequeira	Assistant Prof.	SPAS	8
17	Ms. Sanskruti Ayir	Assistant Prof.	DDKSSSBS	42
18	Mr. Vishnu Chari	Assistant Prof.	SCS	1

They may attend the recording sessions for the Konkani modules as and when notified by the Directorate of Higher Education's Project DISHTAVO Team.

Nadkarni
29/09/23

(Prof. V. S. Nadkarni)
REGISTRAR

Copy to:
1) Concerned faculty.
2) Personal file.
3) Guard file.

DUTY REPORT-Konkani(RECORDING)

Sr No.	Faculty	Days	No of Modules	EPL	Subject	TOA
3	Ms. Dviti Mapari	29-Jan-2024 | 15-Feb-2024 | 07-Mar-2024	19	0	MICROBIOLOGY	Regular

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29/09/23

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Directorate of
Higher Education
Government of Goa

CERTIFICATE OF APPRECIATION

DISHTAVO

presented to

Dr. Minal Desai Shirodkar

Goa University

for contributing **9** modules in **regional language (Konkani)**

towards e-content of project DISHTAVO for the period

from JANUARY 2023 to MARCH 2025

Dr. Anil Dinge	Ms. Vandana Naik	Shri. Bhushan K. Savoikar
Incharge	Co-ordinator	Director
Project DISHTAVO	Project DISHTAVO	Directorate of Higher Education Government of Goa

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Incharge	Co-ordinator	Director
Project DISHTAVO	Project DISHTAVO	Directorate of Higher Education Government of Goa

February 21, 2025, 11:20 am

Directorate of
Higher Education
Government of Goa

CERTIFICATE OF APPRECIATION

DISHTAVO

presented to

Ms. GANDHITA KUNDAIKAR

Goa University

for contributing **4** modules in **regional language (Konkani)**

towards e-content of project DISHTAVO for the period

from JANUARY 2023 to FEBRUARY 2025

Dr. Anil Dinge	Ms. Vandana Naik	Shri. Bhushan K. Savoikar
Incharge	Co-ordinator	Director
Project DISHTAVO	Project DISHTAVO	Directorate of Higher Education Government of Goa

February 21, 2025, 11:20 am

Directorate of
Higher Education
Government of Goa

CERTIFICATE OF APPRECIATION

DISHTAVO

presented to

Ms. GANDHITA KUNDAIKAR

Goa University

for contributing **4** modules in **regional language (Konkani)**

towards e-content of project DISHTAVO for the period

from JANUARY 2023 to FEBRUARY 2025

Dr. Anil Dinge	Ms. Vandana Naik	Shri. Bhushan K. Savoikar
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Project DISHTAVO	Project DISHTAVO	Directorate of Higher Education Government of Goa

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Goa University

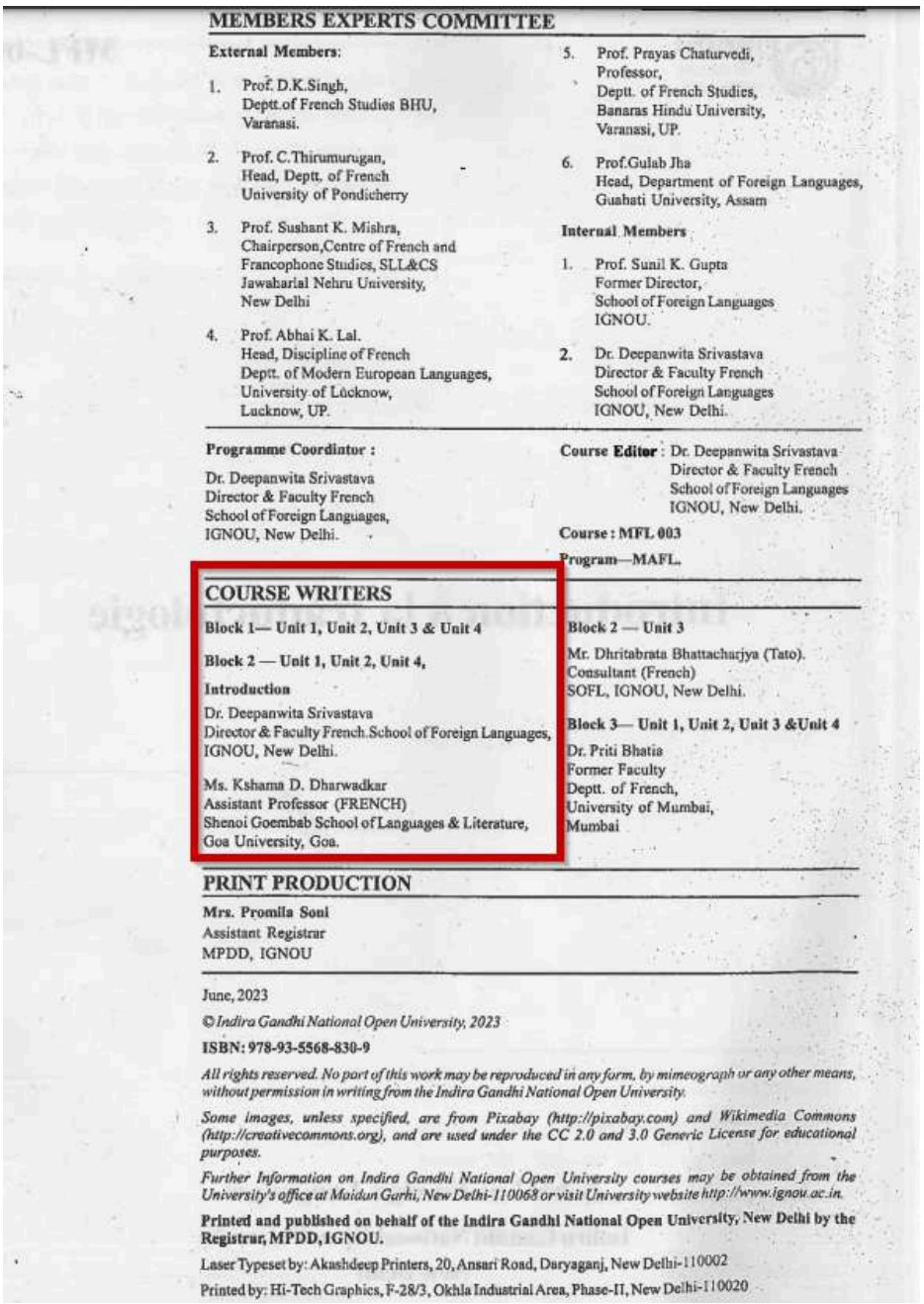
Academic year 2023-2024

3.4.7 E-content is developed by teachers

For other Government Initiatives (eGyanKosh)

Contribution to the development of eContent/books by faculty of Goa University **(Ms. Kshama Dharwadkar)** for IGNOU (ISBN number received) to be launched on **e-Gyan Kosh**, a National Digital Repository.

Name of eContent: *Histoire Générale de la Traductologie*- Block 1-Units 1,2,3,4 and Block 2- Units 1, 2,4. **Screenshot of Title Verso Page of books**



MEMBERS EXPERTS COMMITTEE

External Members:

1. Prof. D.K.Singh, Deptt.of French Studies BHU, Varanasi.
2. Prof. C.Thirumurugan, Head, Deptt. of French University of Pondicherry
3. Prof. Sushant K. Mishra, Chairperson,Centre of French and Francophone Studies, SLL&CS Jawaharlal Nehru University, New Delhi
4. Prof. Abhai K. Lal. Head, Discipline of French Deptt. of Modern European Languages, University of Lucknow, Lucknow, UP.
5. Prof. Prayas Chaturvedi, Professor, Deptt. of French Studies, Banaras Hindu University, Varanasi, UP.
6. Prof.Gulab Jha Head, Department of Foreign Languages, Guahati University, Assam

Internal Members

1. Prof. Sunil K. Gupta Former Director, School of Foreign Languages IGNOU.
2. Dr. Deepanwita Srivastava Director & Faculty French School of Foreign Languages IGNOU, New Delhi.

Programme Coordinator :

Dr. Deepanwita Srivastava
Director & Faculty French
School of Foreign Languages,
IGNOU, New Delhi.

Course Editor : Dr. Deepanwita Srivastava
Director & Faculty French
School of Foreign Languages
IGNOU, New Delhi.

Course : MFL 003

Program—MAFL.

COURSE WRITERS

Block 1— Unit 1, Unit 2, Unit 3 & Unit 4

Block 2 — Unit 1, Unit 2, Unit 4,

Introduction

Dr. Deepanwita Srivastava
Director & Faculty French.School of Foreign Languages,
IGNOU, New Delhi.

Ms. Kshama D. Dharwadkar
Assistant Professor (FRENCH)
Shenoi Goembab School of Languages & Literature,
Goa University, Goa.

Block 2 — Unit 3

Mr. Dhritabrata Bhattacharjya (Tato).
Consultant (French)
SOFL, IGNOU, New Delhi.

Block 3— Unit 1, Unit 2, Unit 3 &Unit 4

Dr. Priti Bhatia
Former Faculty
Deptt. of French,
University of Mumbai,
Mumbai

PRINT PRODUCTION

Mrs. Promila Soni
Assistant Registrar
MPDD, IGNOU

June, 2023

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ISBN: 978-93-5568-830-9

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Further Information on Indira Gandhi National Open University courses may be obtained from the University's office at Maidun Garhi, New Delhi-110068 or visit University website http://www.ignou.ac.in.

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Printed by: Hi-Tech Graphics, F-28/3, Okhla Industrial Area, Phase-II, New Delhi-110020

Links to the ebooks stored in institutional repository

1. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7157/Intro_traductologie_2023_67-82.pdf?sequence=1&isAllowed=y
2. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7158/Intro_traductologie_2023_83-97.pdf?sequence=1&isAllowed=y
3. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7154/Intro_traductologie_2023_20-31.pdf?sequence=1&isAllowed=y
4. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7155/Intro_traductologie_2023_33-44.pdf?sequence=1&isAllowed=y
5. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7156/Intro_traductologie_2023_45-61.pdf?sequence=1&isAllowed=y
6. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7153/Intro_traductologie_2023_9-19.pdf?sequence=1&isAllowed=y
7. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7159/Intro_traductologie_2023_110-124.pdf?sequence=1&isAllowed=y

Goa University

Academic year 2023-2024

3.4.7 E-content is developed by teachers

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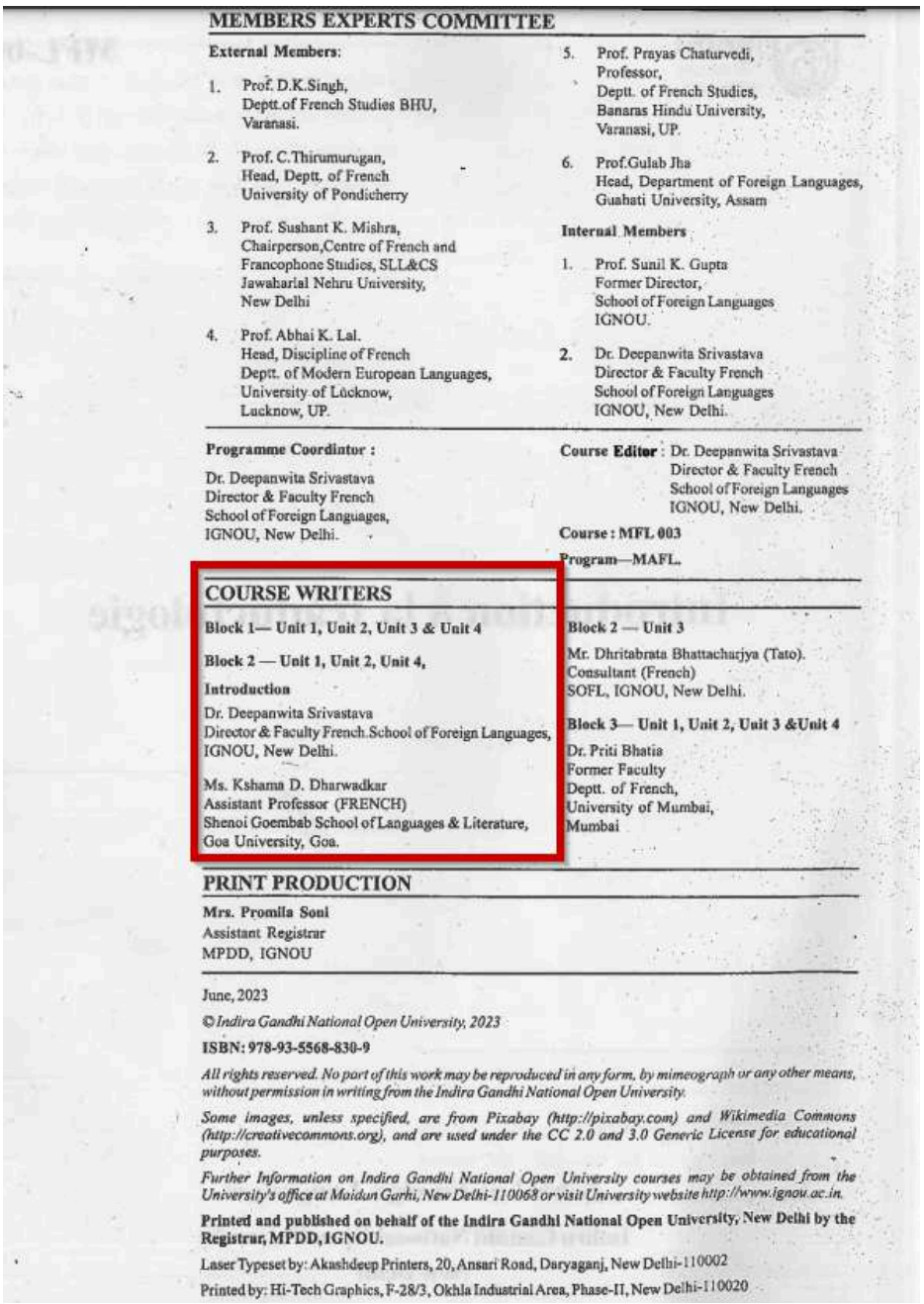

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6. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7153/Intro_traductologie_2023_9-19.pdf?sequence=1&isAllowed=y
7. http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7159/Intro_traductologie_2023_110-124.pdf?sequence=1&isAllowed=y

GOA@60

Azadi Ka Amrit Mahotsav

B05711

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

Alto – Porvorim – Goa

Certificate of Appreciation

This is to certify that **Shourya Dalvi** of GOA UNIVERSITY , TALEIGAO has worked as a **member** of the Content Curation and Creation Team of DIKSHA in French. He / She completed the work assigned to him/her relating to Creation / Curation of Content for uploading in DIKSHA Portal.

This Council appreciates the work done by **Shourya Dalvi** .

Date: 05/12/2022
Place: Alto-Porvorim

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING ★ GOVT. OF GOA ★

(Nagaraj G. Honnekeri)
Director - SCERT

Government of Goa
STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING
PORVORIM – GOA 403 521
Website: www.scert.goa.gov.in
e-mail-scertgoa@gmail.com
PHONE/FAX-0832- 2417276

No. SCERT/ACAD/NCTE/DIKSHA/704/2018/ 1342 Date: 07/08/2020

ORDER

Sub: DIKSHA – Content Creation Team

The services of the Teachers, BRCCs/ BRPs listed in Annexure – I are required to work as part of the **Content Creation Team** of DIKSHA – VidyaDaan: Goa. The team members shall work through online mode wherever they have better connectivity, either from home or their concerned institution.

(N.G.Honnekeri)
Director - SCERT

Copy to
1) The S.P.D., Goa Samagra Shiksha, Porvorim.
2) The Principal, DIET, Porvorim
3) The Secretary, Goa Board of sec, & Hr. Sec. Edu, Porvorim
4) The ADEIs (Adm.) of all Talukas
5) Heads of the concerned Institution (to facilitate the teachers to work through on-line mode)
6) PA to Director, Directorate of Education, Porvorim.
7) Concerned file
8) Guard file

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING ★ GOVT. OF GOA ★

4	Catrine Miranda	St. Mary's High School	-- do --	9923017368
5	Suvidha Naik	Smt. Chandrabhaga Tukoba Naik High School, Curchorem	-- do --	9923438609
6	Milagres Carvalho	Our Lady of Health High School, Cuncolim	Class 7	9518920409
7	Ornella Tracia Valles	Pope John XXIII High School, Quepem	-- do --	9763141983
8	Swapna S. Khedekar	Kasturba Matoshri High School	-- do --	9823056667
9	Sena Rodrigues	St.Judes High School, Betalbatim	Class 8	7588460354
10	Sangeeta Marathe	Government High School, Dhaushire - Tisk, Usgao	-- do --	9657008714
11	Sonali P. Gaonkar	Smt. Chandrabhaga Tukoba Naik High School, Curchorem	-- do --	9421571677

Sr.No	Name of the Teachers	Name and address of the School where employed	Class	Mobile Number
		Subject:- Sanskrit (Language)		
1	Suniti Tengse	Blaram High School, Canacona	Class 6	95526 14555 96239 96439
2	Atmaram/Prasad Umerye	Hedgewar High School, Panaji	-- do --	94204 30180
3	Makarand Gaisas	IBVD High School, Dhavali, Ponda	Class 7	9923633220
4	Saiprasad Apte	Hedgewar High School, Ponda	Class 8	90490 20141
5	Santosh Behare	Wagle High School, Mangeshi	-- do --	98236 89351 / 99239 46451

Sr.No	Name of the Teachers	Name and address of the School where employed	Class	Mobile Number
		Subject:- French (Language)		
1	Andrea D'Cunha Fernandes	The Rosary High School, Cujira	Class 8	9511716377
2	Sibelia Dias	St. Mary's High School, Ponda	-- do --	94032 72667
3	Anthony Gomes	Mushtifund Aryan Hr. Sec. School, Cujira, Bambolim	-- do --	9637088639
4	Ivanka Mascarenhas	Presentation Convent Hr. Sce. School, Margao	-- do --	9923555180

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING ★ GOVT. OF GOA ★

विद्यया ऽमृतमश्नुते

एन सी ई आर टी
NCERT

CERTIFICATE

OF COMPLETION

This is to certify that **Dr. Natasha Maria Gomes, Assistant Professor, Goa University, Goa** has contributed as a Resource Person in face to face workshop to **'Develop MOOCs on 'Development of Online Courses'** from **24-25 January, 2024** organised by Central Institute of Educational Technology (CIET), NCERT, Sri Aurobindo Marg, New Delhi.

Prof. Amarendra P. Behera	**Prof. Indu Kumar**	**Dr. Angel Rathnabai**
Joint Director	Head, DICT & TD	Programme Coordinator
CIET-NCERT	CIET-NCERT	CIET-NCERT

GOA UNIVERSITY
Taleigao Plateau, Goa – 403 206, INDIA

Phone: 8669609093/8669609021
Fax :0832-2451184/2452889/2456153
Email: rdrm@unigoa.ac.in/arpg@unigoa.ac.in
website: www.unigoa.ac.in

No. GU/D-RDRM/Seed money/NMG/French/2020/45 Date: 04.09.2020.

ORDER

Sub.: Seed money grants to Ms. Natasha Maria Gomes, Assistant Professor, Dept. of French, for project "Creation and Analysis of OERs for Acquisition of the French Language and Development of Intercultural Competences".

Sanction of the Vice-Chancellor is hereby accorded to Ms. Natasha Maria Gomes, Assistant Professor, Dept. of French, Goa University for Rs. 50,000/- (Rupees fifty thousand only) as seed money grants for above titled project for the year 2019-20. The duration of this grants is 12 months from the date of the Order. The items of expenditure for which the total allocation of Rs. 50,000/- has been approved are given below.

Sr. No.	Description	Amount
1.	Item/ Instrument • **Laptop (Editing & recording, Microphone, Gimbal LeDs)**	25,000/-
2.	• **Software's (Adobe Pro-Photoshop, Premier pro: Filmora Powtoons pro)**	20,000/-
3.	• **Contingency**	5,000/-

- The sanction has been issued as per Circular GU/D-RDRM/CIRCULAR/2020/11 dated 06.07.2020.
- The items of expenditure are to be done as per purchase procedure of Goa University.
- The expenditure for this grants shall be debited from B.H. P-34(8)(6) - Seed towards the project generation.
- The purchase requisitions and bills for payment from these grants shall be routed through D-RDRM.
- The assets acquired under this project shall be a property of the Dept. of French.

(Ashwin V. Lawande)
Asstt. Registrar (P.G.)

To,

Ms. Natasha Maria Gomes, Assistant Professor, Dept. of French, Goa University.
C.C. to:
1. The Head, Dept. of French, Goa University.
2. F.O.
3. Office file.

B05689

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

Alto – Porvorim – Goa

Certificate of Appreciation

This is to certify that **Anthony Gomes** of **Goa University, Taleigao** worked as a **member** of the Content Curation and Creation Team of DIKSHA in French. He /~~She~~ completed the work assigned to him/~~her~~ relating to Creation / ~~Curation~~ of Content for uploading in DIKSHA Portal.

This Council appreciates the work done by **Anthony Gomes** .

Date: 05/12/2022
Place: Alto-Porvorim

STATE COUNCIL OF EDUCATIONAL RESEARCH & TRAINING ★ GOVT. OF GOA ★

(Nagaraj G. Honnekeri)
Director - SCERT

NPTEL

CERTIFICATE OF APPRECIATION

This is to certify that

NATASHA MARIA GOMES

Goa University

was a Teaching Associate for the blended Online Workshop on

Transition to Online Facilitation

Organized between 6-May-2020 and 3-Jun-2020

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

To whom it may concern Date: 30.12. 2024

CONFIRMATION LETTER

This is to certify that Dr. Natasha Maria Gomes, participated as a developer in OE4BW International online mentoring program from December 2023 to October 2024, which is organized by University of Nova Gorica and UNESCO Chair on Open Technologies for Open Educational Resources (OER) and Open Learning at the Jožef Stefan Institute.

During the program, she developed a 30-hour Massive Open Online Course (MOOC) titled 'Building Bridges: Foundations of Intercultural Communication', as part of the thematic hub: Displaced Persons. The course which was first offered from June to July 2024 aimed at empowering young adults from the Global South and featured 10 modules that utilized Open Educational Resources (OER) through reuse, remixing, as well as the creation of new materials. It incorporated a blend of text-based and video content, along with quizzes, assignments, and interactive discussion forum activities.

"Open Education for a Better World" is a tuition-free, half year-long mentoring programme for participants from all background, regions and continents with the potential and desire to employ Open Educational Resources to solve large scale and relevant problems important in relation to today's global landscape. It involves successful applicants that have been paired with experts who act as their mentors for the half calendar

Yours sincerely,

Mitja Jermol

UNESCO Chair in Open Technologies for Open Educational Resources and Open Learning at Jožef Stefan Institute

Goa University

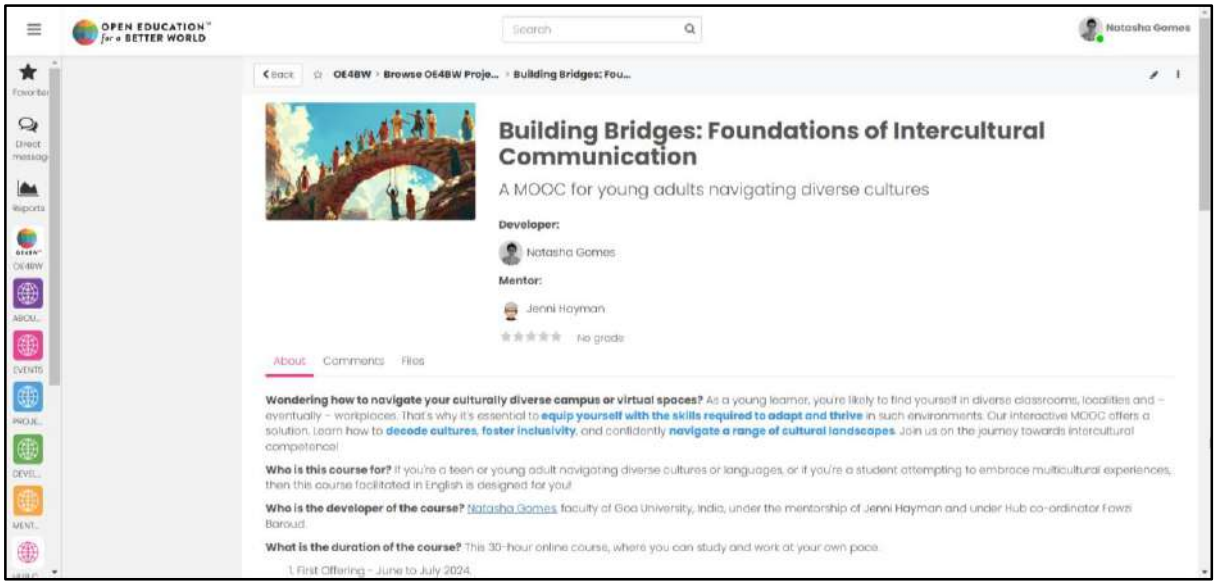
Academic year 2023-2024

3.4.7 E-content is developed by teachers

For other MOOC platforms

As part of the **Open Education for a Better World (OE4BW) International online mentoring program** by The University of Nova Gorica, Slovenia and UNESCO Chair on Open Technologies for OER and Open Learning at the Jožef Stefan Institute, **which began from December 2023**, the faculty of Goa University (**Dr. Natasha Maria Gomes**) **contributed to the development of OER for a 30-hour MOOC** titled '**Building Bridges: Foundations of Intercultural Communication**'. The course had 10 modules and each module included a blend of text-based and video-based eContent along with quizzes, assignments and discussion forum activities.

- **Letter regarding the MOOC** http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes-Participation.pdf
- **Link to information on OE4BW platform** https://oe4bw.miteam.si/asset/u2afkgKxeR2qng5rW
- **This course was first offered on Canvas from June to July 2024. Link to the MOOC offered** on Canvas https://canvas.instructure.com/enroll/4HBR44
- **Certificate of participation** in online conference, OE4BW Eduscope, 26.-27. November 2024 where the outcomes of the project were showcased. Link to certificate http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes-Confirmation.pdf



गोंय विद्यापीठ
ताळगांव पठार
गोंय - ४०३ २०६.
फोन : ८६६९६०९०४८
फॅक्स : +९१-८३२-२४५११८४/२४५२८८९

Goa University
Taleigao Plateau, Goa - 403 206.
Tel : 8669609048
Fax : +91-832-2451184/2452889
Email : registrar@unigoa.ac.in
Website : www.unigoa.ac.in

(Accredited by NAAC with Grade 'A')

No.GU/Exam/55/2020/06 Dated: 03/06/2020

CIRCULAR

The University Teaching Departments and affiliated Colleges of Goa University may kindly take note that no Practical/Viva will be conducted face to face in the month of June 2020. All such academic activities will be conducted online.

Heads of the University Teaching Departments and Colleges/Institutions are requested to kindly adhere to these instructions strictly.

(M. Shreedhara)
Offg. REGISTRAR

To,

1. Heads of the University Teaching Departments, Goa University.
2. Principals/ /Deans of affiliated Colleges/Institutions

Copy to:

1. Joint Registrar (Academic)
2. Assistant Registrar-Exam-UG/PG/Prof.
3. P.S. to Vice Chancellor
4. P.A. to Registrar

गोंय विद्यापीठ
ताळगाव पठार 403206
गोंय, भारत

Tel: 8669609065
Fax: +91-832-2452889

State Public University since 1985
Recognized by UGC u/s 12-B
(Accredited by NAAC with A Grade)

Goa University
Taleigao Plateau 403206
Goa, India

Email: arpg@unigoa.ac.in
Website: www.unigoa.ac.in

GU/81/Acad-PG/Acad-Terms/2020-21/668

Date: 24/08/2020

CIRCULAR

Revised Academic Terms

In accordance with the Ordinance OS-1 of the Goa University and in supersession to Circular No. GU/81/Acad-PG/Acad-Terms/2020-21/664 dated 20-08-2020, the Revised Academic Terms applicable to PG Programmes M.A. /M Sc./ M.Com. /MBA/IMBA/M.C.A./ IMSC/B.L.I.Sc./M.L.I.Sc. (ON CAMPUS) for the academic year 2020-21 shall be as follows:

Item	Duration	No. of Days
• Reopening	17/08/2020	
• **Term -I**	17/08/2020 to 06/01/2021	
• Ganesh Chaturthi Break	24/08/2020 to 26/08/2020	03 days
• Teaching begins	01/09/2020	
• Diwali Break	14/11/2020 to 15/11/2020	02 days
• Teaching ends	21/12/2020	90 days
• Preparatory Break for students	22/12/2020 to 24/12/2020	03 days
• Christmas Break	25/12/2020 to 27/12/2020	03 days
• SEA- Sem. I / III and Repeat Exam and Assessment	28/12/2020 to 06/01/2021	11 days
• **Term-II**	07/01/2021 to 20/05/2021	
• Teaching begins	07/01/2021	
• Teaching ends	28/04/2021	90 days
• Preparatory Break for students	29/04/2021 to 01/05/2021	03 days
• SEA- Sem. II / IV and Repeat Exam. and Assessment	03/05/2021 to 17/05/2021	11 days
• Summer Vacation	21/05/2021 to 06/06/2021	17 days
• Reopening for AY 2021-22	07/06/2021 (Monday)	

Note: **Classes will be held exclusively in online mode until further notice.**

All breaks except the preparatory breaks shall be treated as Vacation for the Teachers.

Practical for Semester I, III & V shall be conducted at the end of the term.

Digitally signed by
PROF Y V REDDY
Date: 2020.08.24
'19:51:45 +05'30

(Prof. Y. V. Reddy)
REGISTRAR

To,

1. All the Deans of Schools/Faculties
2. All the Heads of the University Teaching Departments
3. Controller of Examinations
4. Chairperson, Editorial Committee of Prospectus
5. All the Divisional/Sectional Heads
6. PS to VC
7. PA to R

ZOC 226-Comparative Anatomy of Vertebrates
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Customize

ZOC 226-Comparative Anatomy of Vertebrates

Teacher: Dr. Shamshad Shaikh

Announce something to your class

Shamshad Shaikh
Dec 6, 2021

Axial and Appendicular Musculature

Axial and Appendicular ...

Add class comment...

Shamshad Shaikh
Nov 18, 2021

Your ISA will be on 22nd November that is Monday at 4.30 p.m

Paper format
2 subjective type questions would be asked. Each question will be for 5 marks, no options would be provided.

Instructions
1. Be ready with your answer-sheet, with your name, roll number and signature before the commencement of exam

ZOC 226-Comparative Anatomy of Vertebrates

Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Add class comment...

Shamshad Shaikh
Nov 18, 2021

Lec 6- 9 handouts

Axial and Appendicular ...

Add class comment...

Shamshad Shaikh
Oct 11, 2021

Lecture 1-5 handouts

Comparative Anatomy o...

Add class comment...

ZOC 226-Comparative Anatomy of Vertebrates
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Teachers

Shamshad Shaikh

Students

35 students

Actions

Melvita Alvares

Anjali Amonkar

archanasawant197... (invited)

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Mugdha Chodankar

Jonathan D'Costa

Dicema Dias

ZOC 226-Comparative Anatomy of Vertebrates

Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

- Jochebed Fernand...
- Anuraj Gaonkar
- Sona Gaonkar
- pooja gaude
- gaunekarr@gmail.... (invited)
- Riya Gawas
- Vibhuti Gawas
- Vrunda Gayak
- Akshaya Karekar
- Vibhuti Kasar
- Amrin Khatoon
- Ganraj Kholkar
- Riya Kudalkar
- Tejashri Mahale

ZOC 226-Comparative Anatomy of Vertebrates

Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

- DIPSHIKA MHATO
- ankita morje
- mugdha_chodanka... (invited)
- Anchal Naik
- Karishma Naik
- Priyanka Naik
- Vaishnavi Naik
- Aishwarya Nene
- Toobaa Nizami
- Caren Noronha
- Antara Poi Raiturker
- prajyotikolambkar1... (invited)
- Rashmi
- Neeha Sinai Borker

ZOC 226-Comparative Anatomy of Vertebrates

Teacher: Dr. Shamshad Shaikh

S

Stream Classwork People Grades

ZOO 303: Fish Processing (2021-2022)

Stream Classwork People Grades

Create

PPTS Posted Dec 3, 2021

Module 1 Posted Oct 12, 2021

ZOO 303: Fish Processing (2021-2022)

Stream Classwork People Grades

Teachers

Avelyno D`Costa

Students

12 students

Actions

Advinson D'Souza

Jyoti Jha

Anamika Kunkolkar

Sonia Morajkar

Gaurav Naik

Nikita Naik

Shreya Naik

Siddi Naik

Joanna Patric

Uma Pednekar

ZOO 303: Fish Processing (2021-2022)

Stream Classwork People Grades

Viraj Vaigankar

ZOO 433-Biological Techniques
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Customize

ZOO 433-Biological Techniques

Teacher: Dr. Shamshad Shaikh

Announce something to your class

Shamshad Shaikh posted a new material: lecture handouts mod 2 electrophoresis
Apr 28

Shamshad Shaikh posted a new material: lecture handouts mod 2 chromatography techniques
Apr 28

Shamshad Shaikh posted a new material: handouts on Microscopic Techniques
Apr 5

Shamshad Shaikh posted a new material: handouts on Radiolabelling techniques
Apr 5

Shamshad Shaikh posted a new material: Handouts on Molecular Biology techniques
Mar 14 (Edited Apr 5)

Shamshad Shaikh posted a new material: Hangouts on Spectrophotometric Techniques
Mar 14

Settings saved

ZOO 433-Biological Techniques
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Teachers

Shamshad Shaikh

Students

14 students

Actions

Pragati Deikar

Dicema Dias

Joyce Fernandes

Anuraj Gaonkar

Vibhuti Kasar

Amrin Khatoon

Ganraj Kholkar

Karishma Naik

Nikita Naik

ZOO 433-Biological Techniques
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Toobaa Nizami

Sarita Rebelo

Sanira Simoes

Neeha Sinai Borker

ZOO 427-Endocrinology
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Customize

ZOO 427-Endocrinology

Teacher: Dr. Shamshad Shaikh

Announce something to your class

Shamshad Shaikh posted a new material: lecture handouts module 1 part 3
Apr 28

Shamshad Shaikh posted a new material: lecture handouts module 1 part 2
Apr 18 (Edited Apr 28)

Shamshad Shaikh posted a new material: lecture handouts module1 part 1
Apr 18 (Edited Apr 28)

Settings saved

ZOO 427-Endocrinology
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Teachers

Shamshad Shaikh

Students

26 students

Actions

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Tanvi Chari

Jonathan D'Costa

Pragati Deikar

Feazel Dias

Jochebed Fernand...

Valanca Fernandes

ZOO 427-Endocrinology
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

- Vibhuti Gawas
- GARGEE KALANG...
- Akshaya Karekar
- Amrin Khatoon
- Ganraj Kholkar
- Riya Kudalkar
- DIPSHIKA MHATO
- ankita morje
- Karishma Naik
- samiksha naik
- Toobaa Nizami
- Joanna Patric
- Uma Pednekar
- Rashmi

ZOO 427-Endocrinology
Teacher: Dr. Shamshad Shaikh

Stream Classwork People Grades

Sanira Simoes

ZOC 128: Animal Biochemistry (2021-2022)

Stream Classwork People Grades

Customize

ZOC 128: Animal Biochemistry (2021-2022)

Announce something to your class

Avelyno D`Costa posted a new material: Protein turnover and catabolism
Dec 11, 2021

Avelyno D`Costa posted a new material: Protein extraction and purification
Dec 11, 2021

Avelyno D`Costa posted a new material: Protein structure
Dec 11, 2021

Avelyno D`Costa posted a new material: Importance of cholesterol
Nov 26, 2021

Avelyno D`Costa posted a new material: Oxidation of fatty acids
Nov 26, 2021

Avelyno D`Costa posted a new material: Cellular respiration
Nov 9, 2021

ZOC 128: Animal Biochemistry (2021-2022)

Stream Classwork People Grades

Sep 22, 2021

Avelyno D`Costa posted a new material: Enzyme kinetics and inhibition
Sep 16, 2021

Avelyno D`Costa posted a new material: Enzyme kinetics - 1
Sep 12, 2021

ZOC 128: Animal Biochemistry (2021-2022)

Stream Classwork People Grades

Teachers

Avelyno D`Costa

Students

36 students

Actions

Melvita Alvares

Anjali Amonkar

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Mugdha Chodankar

Jonathan D'Costa

Dicema Dias

Feazel Dias

Jochebed Fernand...

ZOC 128: Animal Biochemistry (2021-2022)

Stream Classwork People Grades

Sona Gaonkar

pooja gaude

gaunekarr@gmail.... (invited)

Riya Gawas

Vibhuti Gawas

Vrunda Gayak

Akshaya Karekar

Vibhuti Kasar

Amrin Khatoon

Ganraj Kholkar

Riya Kudalkar

Tejashri Mahale

Anouska Mascaren...

DIPSHIKA MHATO

ankita morje

ZOC 128: Animal Biochemistry (2021-2022)

Stream Classwork People Grades

Anchal Naik

Karishma Naik

Priyanka Naik

Vaishnavi Naik

Aishwarya Nene

Toobaa Nizami

Caren Noronha

Antara Poi Raiturker

prajyotikolambkar1... (invited)

Rashmi

Vikita Sakhalkar

Neeha Sinai Borker

ZOC 228- Advanced Developmental Biology

Stream Classwork People Grades

Customize

ZOC 228- Advanced Developmental Biology

Class code 3sfzeik
Subject Zoology

Announce something to your class

Gandhita Vasant Kundaikar posted a new material: ISA Marks
May 2

Gandhita Vasant Kundaikar posted a new material: Lecture Handouts
Apr 30

Gandhita Vasant Kundaikar posted a new material: cell-cell communication
Apr 20

Gandhita Vasant Kundaikar posted a new material: Reference
Apr 19

Gandhita Vasant Kundaikar posted a new material: Lecture handouts- Modu...
Apr 18

ZOC 228- Advanced Developmental Biology

Stream Classwork People Grades

Feb 7

ZOC 228- Advanced Developmental Biology

Stream Classwork People Grades

Teachers

Gandhita Vasant Kundaik...

Akshaya Karekar

Students

32 students

Actions

akshayakerekar@g... (invited)

Melvita Alvares

anjaliamonkar44@... (invited)

archanasawant197... (invited)

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Mugdha Chodankar

Jonathan D'Costa

ZOC 228- Advanced Developmental Biology

Stream Classwork People Grades

- Feazel Dias
- Jochebed Fernand...
- Anuraj Gaonkar
- Sona Gaonkar
- pooja gaude
- gaunekarr@gmail.... (invited)
- Riya Gawas
- Vibhuti Gawas
- Vrunda Gayak
- Vibhuti Kasar
- Amrin Khatoon
- Ganraj Kholkar
- Riya Kudalkar
- Anouska Mascaren...
- DIPSHIKA MHATO

ZOC 228- Advanced Developmental Biology

Stream Classwork People Grades

mugdha_chodanka... (invited)

Anchal Naik

Karishma Naik

Priyanka Naik

Vaishnavi Naik

Aishwarya Nene

Toobaa Nizami

Caren Noronha

Antara Poi Raiturker

prajyotikolambkar1... (invited)

Rashmi

Neeha Sinai Borker

tejashrimahale236... (invited)

vikitasakhalkar@g... (invited)

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

Create

Practicals	Edited May 11
Lectures	Posted Apr 29
Lectures	Edited May 4

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

Teachers

Avelyno D`Costa

Students

46 students

Actions

Melvita Alvares

Anthea Baracho

Shatakshi Bhat

Mugdha Chodankar

Advinson D'Souza

Dicema Dias

Feazel Dias

Abigail fernandes

Gracy Fernandes

Joyce Fernandes

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

- Sanjeet Gaonkar
- pooja gaude
- Ram Gawas
- Riya Gawas
- Vibhuti Gawas
- Vrunda Gayak
- Jyoti Jha
- Akshaya Karekar
- Vibhuti Kasar
- Amrin Khatoon
- Ganraj Kholkar
- Riya Kudalkar
- Anamika Kunkolkar
- Tejashri Mahale
- DIPSHIKA MHATO

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

- ankita morje
- Anchal Naik
- Gaurav Naik
- Nikita Naik
- Priyanka Naik
- samiksha naik
- Shreya Naik
- Siddi Naik
- Vaishnavi Naik
- Toobaa Nizami
- Caren Noronha
- Joanna Patric
- Uma Pednekar
- Antara Poi Raiturker
- Rashmi

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

PRACHI TALAVNEK...

Viraj Vaigankar

Naik Vithal

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

Create

Practicals	Edited May 11
Lectures	Posted Apr 29
Lectures	Edited May 4

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

Teachers

Avelyno D`Costa

Students

46 students

Actions

Melvita Alvares

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Shatakshi Bhat

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Dicema Dias

Feazel Dias

Abigail fernandes

Gracy Fernandes

Joyce Fernandes

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

- Sanjeet Gaonkar
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- Ram Gawas
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- Vibhuti Gawas
- Vrunda Gayak
- Jyoti Jha
- Akshaya Karekar
- Vibhuti Kasar
- Amrin Khatoon
- Ganraj Kholkar
- Riya Kudalkar
- Anamika Kunkolkar
- Tejashri Mahale
- DIPSHIKA MHATO

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

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- Nikita Naik
- Priyanka Naik
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- Shreya Naik
- Siddi Naik
- Vaishnavi Naik
- Toobaa Nizami
- Caren Noronha
- Joanna Patric
- Uma Pednekar
- Antara Poi Raiturker
- Rashmi

ZOO 338: Toxicology (2021-2022

Stream Classwork People Grades

PRACHI TALAVNEK...

Viraj Vaigankar

Naik Vithal

Vector Biology

Stream Classwork People Grades

Customize

Vector Biology

Announce something to your class

Gandhita Vasant Kundaikar posted a new material: ISA Marks
May 4

Gandhita Vasant Kundaikar posted a new material: reference
Apr 30

Gandhita Vasant Kundaikar posted a new material: Lecture Handouts
Apr 17

Gandhita Vasant Kundaikar posted a new material: References
Apr 6

Gandhita Vasant Kundaikar posted a new material: Reference
Apr 6

Vector Biology

Stream Classwork People Grades

Teachers

Gandhita Vasant Kundaik...

Students

32 students

Actions

- Shatakshi Bhat
- Vianney Antonio C...
- Mugdha Chodankar
- Dicema Dias
- Feazel Dias
- Jochebed Fernand...
- Joyce Fernandes
- Valanca Fernandes
- Anuraj Gaonkar
- pooja gaude

Vector Biology

Stream Classwork People Grades

Vrunda Gayak

GARGEE KALANG...

Akshaya Karekar

Vibhuti Kasar

Amrin Khatoon

Riya Kudalkar

Sonia Morajkar

Anchal Naik

Nikita Naik

samiksha naik

Shreya Naik

Siddi Naik

Prapti Nayak

Caren Noronha

Joanna Patric

Vector Biology

Stream Classwork **People** Grades

- Jewella Pires
- Antara Poi Raiturker
- DIVYA SHENVI
- Riddhi Shetkar
- Riddhi Shirodker

Vector Biology

Stream Classwork People Grades

Customize

Vector Biology

Announce something to your class

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May 4

Gandhita Vasant Kundaikar posted a new material: reference
Apr 30

Gandhita Vasant Kundaikar posted a new material: Lecture Handouts
Apr 17

Gandhita Vasant Kundaikar posted a new material: References
Apr 6

Gandhita Vasant Kundaikar posted a new material: Reference
Apr 6

Vector Biology

Stream Classwork People Grades

Teachers

Gandhita Vasant Kundaik...

Students

32 students

Actions

- Shatakshi Bhat
- Vianney Antonio C...
- Mugdha Chodankar
- Dicema Dias
- Feazel Dias
- Jochebed Fernand...
- Joyce Fernandes
- Valanca Fernandes
- Anuraj Gaonkar
- pooja gaude

Vector Biology

Stream Classwork People Grades

Vrunda Gayak

GARGEE KALANG...

Akshaya Karekar

Vibhuti Kasar

Amrin Khatoon

Riya Kudalkar

Sonia Morajkar

Anchal Naik

Nikita Naik

samiksha naik

Shreya Naik

Siddi Naik

Prapti Nayak

Caren Noronha

Joanna Patric

Vector Biology

Stream Classwork **People** Grades

- Jewella Pires
- Antara Poi Raiturker
- DIVYA SHENVI
- Riddhi Shetkar
- Riddhi Shirodker

ZOO 437: Nutritional Biochemistry (2021-2022)

Stream Classwork People Grades

Create

PPTs Posted Apr 29

PPTs Posted Apr 8

ZOO 437: Nutritional Biochemistry (2021-2022)

Stream Classwork People Grades

Teachers

Avelyno D`Costa

Students

17 students

Actions

Melvita Alvares

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Feazel Dias

Jochebed Fernand...

pooja gaude

Akshaya Karekar

Vibhuti Kasar

Amrin Khatoon

ZOO 437: Nutritional Biochemistry (2021-2022)

Stream Classwork People Grades

Riya Kudalkar

DIPSHIKA MHATO

ankita morje

Toobaa Nizami

Caren Noronha

Rashmi

ZOO 437: Nutritional Biochemistry (2021-2022)

Stream Classwork People Grades

Create

PPTs Posted Apr 29

PPTs Posted Apr 8

ZOO 437: Nutritional Biochemistry (2021-2022)

Stream Classwork People Grades

Teachers

Avelyno D`Costa

Students

17 students

Actions

Melvita Alvares

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Feazel Dias

Jochebed Fernand...

pooja gaude

Akshaya Karekar

Vibhuti Kasar

Amrin Khatoon

ZOO 437: Nutritional Biochemistry (2021-2022)

Stream Classwork People Grades

Riya Kudalkar

DIPSHIKA MHATO

ankita morje

Toobaa Nizami

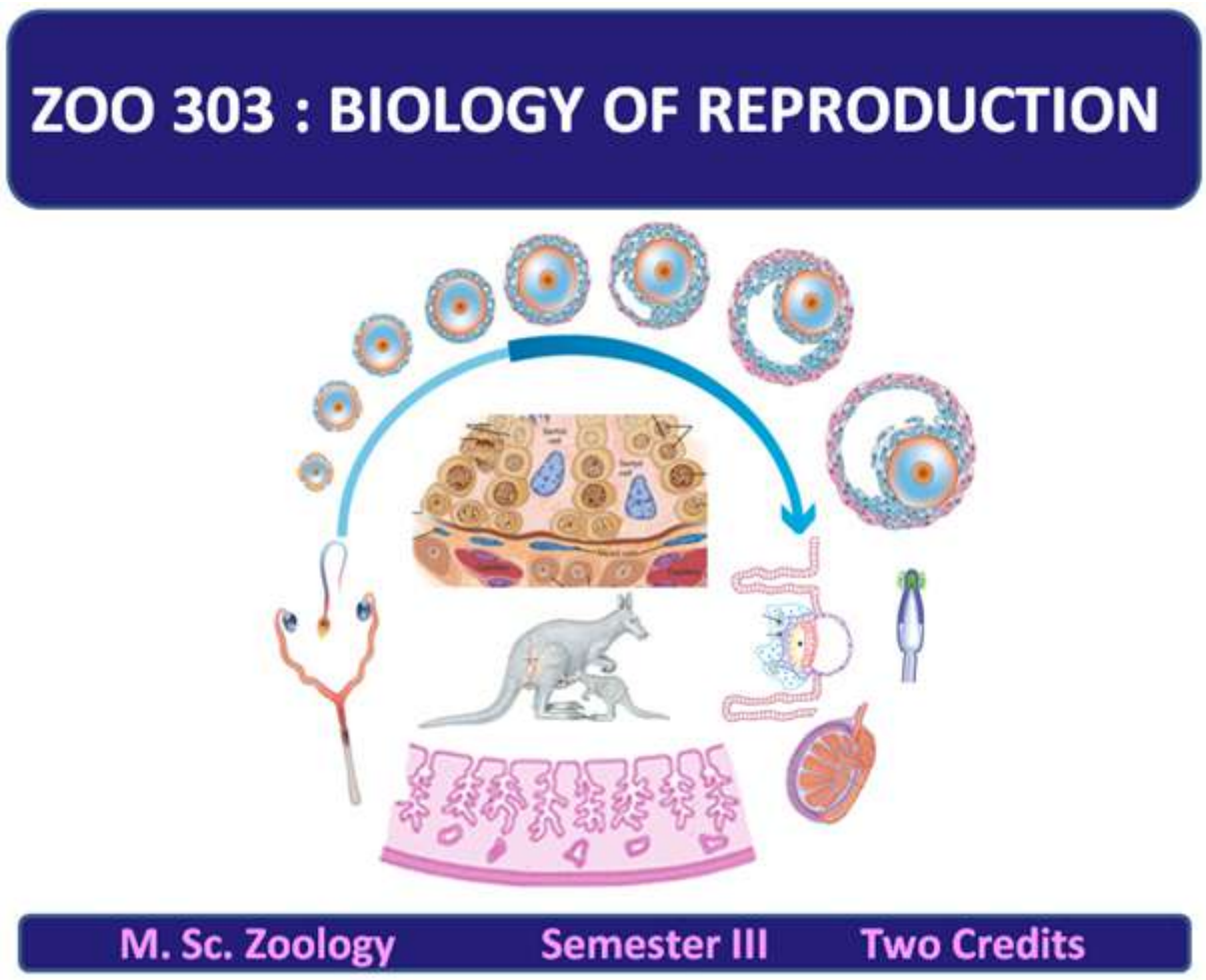
Caren Noronha

Rashmi

ZOO 303 BIOLOGY OF REPRODUCTION

Your progress

Announcements



COURSE DETAILS

Course Schedule

Lecture 1

Administrative lecture

MODULE 1

Endocrinology: Adult and Pediatric Google E-Book

Spermatogenesis

Google E-book : Molecular mechanisms in Spermatogenesis

Google e-Book Human Reproductive Biology

Animal Reproduction Science Journal special Issue

Lecture 2 handout

General references for Lecture 2

Activity 1

Activity 1

- Describe Blood-testis-Barrier. (5mks)
- Comment on significance of Subtentecular cells. (5mks)

- Activity 1 References
- Lecture 2 video link
- Lecture 3 handout
- Spermatogenesis
- Biology of Spermatogenesis and Semen
- Spermatogenesis
- Spermiation
- Release of spermatozoa into the lumen of seminiferous tubules
- Spermatogenesis
- ReviewThe Cycle of the SeminiferousEpithelium in Humans:A Need to Revisit?
- Physiology of Male Gametogenesis
- Lecture 3 Video
- Activity 2

Activity 2

- Give detailed account of Epididymal matuartion of Spermatozoa. (5mks)
- Describe Leblond and Clermont Concept of wave and cycle. (5mks)

- Lecture 4 handout
- The Mammalian Blood-Testis Barrier: Its Biology and Regulation
- Lecture 4 video
- Activity 3

Activity 3

- Since FSH is endocrine hormone, how do you account for its role on growing Spermatogonia? (5mks)
- Comment on significance of Sperm Centrioles and its fate during and after fertilization. (5mks)

Lecture 5 Handout

Activity 4

Activity 4

- Give general account of hormonal regulation of Male accessary organs. (5mks)
- Comment on Role of Androgens and other factors during development of male reproductive system. (5mks)

Lecture 6 Handout

Semen Analysis

Semen analysis

Semen composistion and analysis slides

Semen component

Activity 5

Activity 5

Color: White, opalescent	
Specific gravity: 1.028	
pH: 7.35–7.50	
Sperm count: Average about 100 million/mL, with fewer than 20% abnormal forms	
Other components: Fructose (1.5–6.5 mg/mL) Phosphorylcholine Ergothioneine Ascorbic acid Flavins Prostaglandins	From seminal vesicles (contributes 60% of total volume)
Spermine Citric acid Cholesterol, phospholipids Fibrinolysin, fibrinogenase Zinc Acid phosphatase	From prostate (contributes 20% of total volume)
Phosphate Bicarbonate Hyaluronidase	Buffers

- **Describe the function of each component in red box. (3 mks)**
- **How & why is fructose preferred energy source for sperm. (4 mks)**
- **Discussion Topic: Utility of sperm analysis in medico-legal cases. (3 mks)**

- Additional References for all activities
- Metabolism of spermatozoa
- Epididymis, Ejaculation and Semen
- Abstract: Fuel/Energy Sources of Spermatozoa
- Lecture 5 video
- Semen analysis
- Identification of body fluids
- Lacture 6 Video
- Lecture 7 handout
- Lecture 7 Video
- Lecture 8 handout
- Lecture 8 Video
- Lecture 9 video

MODULE II

- Primer for Lecture 14 handout
- Lecture 14 primer lecture video
- Lecture 14 Part I handout
- Lecture 14 part I video
- Lecture 14 part II video
- Lecture 14 part III video
- Lecture 14 Part III handout
- Lecture 14 handout last part
- Lecture 14 last part video
- Lecture 15 handout Part I
- Lecture 15 handout Part II
- Lecture 15 Part I video

Lecture 15 Part I video

Lecture 15 Part II video

Lecture 16 handout

Lecture 16 video

Lecture 17 handout

Lecture 17 video

Module II All Activity link

Lecture 18 handout

Lecture 18 video

For those who had problem submitting Module II All Activity link

Feedback lecture

Topic 3

Topic 4

Topic 5

Topic 6

Shanti's NET/SET Mentoring Class

Edit

Announcements

Edit

Add an activity or resource

Shanti's NET/SET Mentoring Class

Edit

Add an activity or resource

Important websites & Videos to begin

Edit

- CSIR website — Edit
- MH-SET Website — Edit
- GATE website — Edit
- UGC NET — Edit
- IFAS website for solved back papers — Edit
- Tips to Cover your Topics In Organised Way | Complete Your Topics in Smart Manner II — Edit
- How to Manage your TIME |Time Management Tips | Competitive Exams |I CSIR-NET JRF II — Edit
- Tips on how to utilize the Extended time|Revision tips | Time Utilisation |CSIR-NET JRF|| — Edit
- How to Clear Your Basics | Sources to Clear Basics | CSIR-NET JRF || — Edit
- Tips to Cover your Topics In Organised Way | Complete Your Topics in Smart Manner II — Edit
- Stress Buster Calculation | Change your Perspective for exam | Boost Your Confidence || CSIR-NET JRF — Edit
- How to make Effective Notes | Tips for making Effective Notes for Exams || — Edit
- Mistakes to Avoid During the Preparation of CSIR NET JRF Life Science || — Edit
- Myths about CSIR -UGC-NET || Tips for preparation of CSIR-NET Exam || — Edit
- How to Avoid Distraction while studying| Motivation | Tips to stay Focused|| — Edit
- How to Qualify CSIR NET Lifescience In First Attempt WITHOUT COACHING || — Edit
- Are PYQ enough or not for CSIR NET preparation | My Experience | How to deal with PYQ || — Edit
- 3 months strategy for CSIR-NET JRF || Revision Plan for CSIR NET | Revision tips || — Edit
- Which References to follow | CSIR NET life sciences | How to complete syllabus for CSIR NET || — Edit

Exam pattern - CSIR-UGC-NET || Ways to approach each section || My Score card || Edit

Most important and frequently repeated topics list for CSIR-NET JRF || Based on PYQ analysis || Edit

Most important and frequently repeated topics list for CSIR-NET JRF || Based on PYQ analysis || (copy) Edit

Units you CANNOT skip while preparing for CSIR-NET Lifesciences |Most Important units for CSIR NET| Edit

Tips to Cover your Topics In Organised Way | Complete Your Topics in Smart Manner II Edit

CSIR NET exam: Top 10 Misconceptions & Myths about qualifying No one has told you - Must Watch Video Edit

8000+ CSIR Net Life Science MCQs Important Questions -Practice FREE Edit

5000+ CSIR NET Life Science MCQ, CSIR net life science Mock test Previous year question paper with Free Video solution - Unit-wise MCQs for JRF, DBT, and other life science exams. question papers for CSIR Net Life science

Structure of atoms, molecules, and chemical bonds. Edit

Add an activity or resource

CSIR/UGC NET/ SET Paper I

Edit

Unit 1 Teaching Aptitude

Unit 2 Research Aptitude

Unit 3 Comprehension

Unit 4 Communication

Unit 5 Mathematic reasoning and Aptitude

Unit 6 Logical Reasoning

Unit 7 Data Interpretation

Unit 8 Information and Communication Technology

Unit 9 People, Development and Environment

Unit 10 Higher Education

- Clock Hand Problem for General Aptitude Paper 1 | CSIR NET, GATE, UGC NET, SET | L4 | IFAS — Edit
- General Aptitude Practice - Direction Problems I CSIR-NET I Boost your RANK II — Edit
- General Aptitude LAST DIGIT OF UNIT POWER I Practice session I Rank Booster I CSIR-NET I DBT I GATE — Edit
- General Aptitude Practice Session- Coding/ Decoding and Series II CSIR NET II RANK BOOSTER — Edit
- General Aptitude Practice Session-1 I CSIR-NETJRF I How to prepare for Part-A Rank Booster — Edit
- Probability for CSIR NET / GATE | Revision Series | IFAS — Edit
- UGC NET Teaching Aptitude For UGC NET 2022 Full Revision Paper 1 By Gulshan Mam | Be a Game Changer! — Edit
- NTA UGC NET Paper 1 2022 Exam | Marathon of Teaching Aptitude | Gulshan Ma'am | NTA UGC NET 2022 — Edit
- UGC NET June 2022 Exam | Paper 1 Teaching Aptitude Over Ek Hi Class Mein | Gulshan Mam | NTA UGC NET — Edit
- UGC NET 2022 Exam | Teaching Aptitude For UGC NET | Paper 1 | Gulshan Mam | NTA UGC NET 2022 | BEP — Edit
- Playlist for UNIT 2 Research Aptitude all topics| Gulshan Mam | NTA UGC NET 2022 | — Edit
- UGC NET 2022 Exam | Research Aptitude For UGC NET | Paper 1 | Gulshan Mam | NTA UGC NET 2022 | BEP — Edit
- UGC NET 2022 Exam | Research Aptitude For UGC NET | Paper 1 | Gulshan Mam | NTA UGC NET 2022 | BEP (copy) — Edit

+ Add an activity or resource

CSIR-UGC NET Life Sciences UNIT 1 — Edit

1. MOLECULES AND THEIR INTERACTION RELEVANT TO BIOLOGY

A. Structure of atoms, molecules, and chemical bonds.
B. Composition, structure, and function of biomolecules (carbohydrates, lipids, proteins, nucleic acids, and vitamins).
C. Stabilizing interactions (Van der Waals, electrostatic, hydrogen bonding, hydrophobic interaction, etc.).
D. Principles of biophysical chemistry (pH, buffer, reaction kinetics, thermodynamics, colligative properties).
E. Bioenergetics, glycolysis, oxidative phosphorylation, coupled reaction, group transfer, biological energy transducers.
F. Principles of catalysis, enzymes and enzyme kinetics, enzyme regulation, mechanism of enzyme catalysis, isozymes
G. Conformation of proteins (Ramachandran plot, secondary structure, domains, motif, and folds).
H. Conformation of nucleic acids (helix (A, B, Z), t-RNA, micro-RNA).
I. Stability of proteins and nucleic acids.
J. Metabolism of carbohydrates, lipids, amino acids nucleotides, and vitamins.

CSIR NET Life Science Unit-1| Study plan and Syllabus for Unit 1|CSIR NET Biochemistry -Imp Topics|I Edit

CSIR NET Life Science Unit-1| Biochemistry Playlist of Botany Insider (18 Videos) Edit

CSIR NET Life Science Unit-1| Biochemistry Playlist of IFAS (11 Videos) (copy) Edit

CSIR NET Rapid Revision Rounds - Day 1 - Unit 1: Molecules and their Interaction Relevant to Biology Edit

DAY 1: CSIR NET Concept Review Series - UNIT 1: Amino Acids + Download FREE Sample Paper Edit

Add an activity or resource

CSIR-UGC NET Life Sciences UNIT 2

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CSIR-UGC NET Life Sciences UNIT 3

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Add an activity or resource

CSIR-UGC NET Life Sciences UNIT 4

Edit

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CSIR-UGC NET Life Sciences UNIT 5

Edit

Add an activity or resource

Topic 9

Edit

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Topic 10

Edit

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Topic 11

Edit

Add an activity or resource

Topic 12

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Topic 13

Edit

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Topic 14

Edit

Add an activity or resource

Topic 15

Edit

Add an activity or resource

Add topics

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ZOO 331: NEUROPHYSIOLOGY (CLUSTER B: LIFE PROCESSES)

Edit

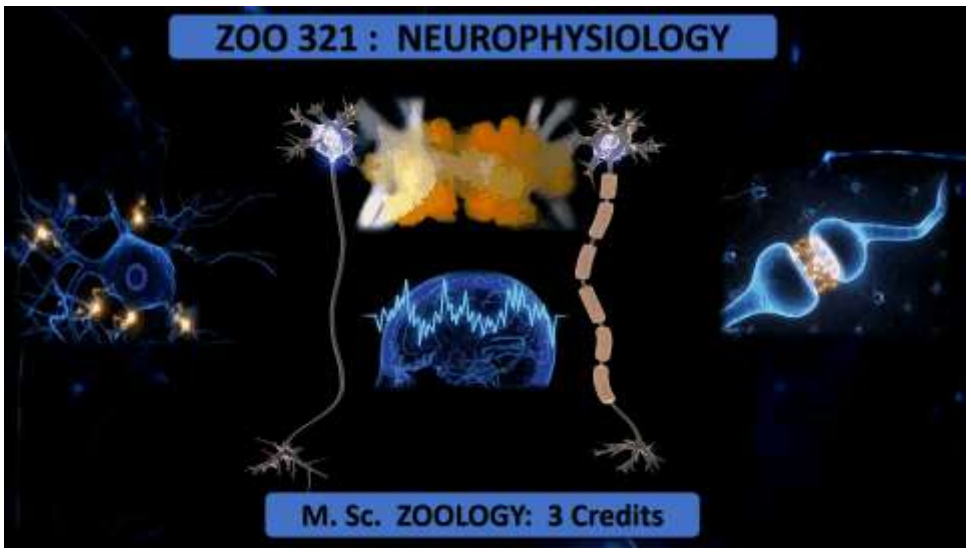
Announcements

Edit

Add an activity or resource

ZOO 331 Neurophysiology

Edit



Course details — Edit

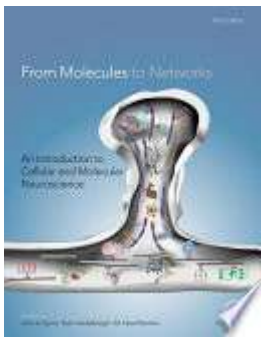
Course Schedule — Edit

Add an activity or resource

BOOKS

Edit

From Molecules to Networks: An Introduction to Cellular and Molecular ... edited by John H. Byrne, Ruth Heidelberger, M. Neal Waxham — Edit



Neuroscience, 2nd edition Editors: Dale Purves, George J Augustine, David Fitzpatrick, Lawrence C Katz, Anthony-Samuel LaMantia, James O McNamara, and S Mark Williams. — Edit

Neuroscience books folder — Edit

Neurophysiology complete note from SlideShare for reference — Edit

Add an activity or resource

Module 1

Edit

Review of classification of neurons and their functions. Blood brain barrier and its physiological importance, CSF composition, formation and drainage. Physiological characteristics of neuronal cell membrane components for impulse conduction. Electrophysiology of neuron. Comparison of action potentials of Giant axon of Squid and mammalian neuron, Voltage and Cell-Patch Clamp Techniques. Myelin ultrastructure and Nodes of Ranvier, Nerve impulse conduction in Myelinated and Unmyelinated neurons.

- Lecture 1 Administrative lecture — Edit
- Lecture 1 video — Edit
- Lecture 2 — Edit

  Review of classification of neurons and their functions.
- Lecture 2 video Part 1 — Edit
- Lecture 2 video Part 2 — Edit
- Lecture 3 — Edit

  Blood brain barrier and its physiological importance, CSF composition, formation and drainage.
- Lecture 2 video Part 3 continued with lecture 3 video part 1 — Edit
- Lecture 3 video part 2 — Edit
- Lecture 3 video part 3 — Edit
- Lecture 4 — Edit

  Physiological characteristics of neuronal cell membrane components for impulse conduction.
- Lecture 3 video part 4 continued with lecture 4 part 1 — Edit
- Lecture 4 video part 2 — Edit
- Lecture 5 — Edit

  Electrophysiology of Neuron
- Lecture 6 full — Edit

  Voltage and Cell-Patch Clamp Techniques
- Lecture 6 video part 1 — Edit
- Lecture 7 handout — Edit

  Myelin ultrastructure and Nodes of Ranvier, Nerve impulse conduction in Myelinated and Unmyelinated neurons

Add an activity or resource

Module 2

Edit

Types of synaptic connection and their conduction physiology: Axosomatic, axodendritic, Dendro-dendritic and Axo-axonal synapses. Chemical and electrical synapse. Axonal impulse conduction-excitatory and inhibitory synaptic transmission. Properties of Synapse. Effect of Acidosis & Alkalosis, Effect of Hypoxia on Synaptic Transmission, Effect of Narcotic drugs on Synaptic Transmission. Basic concept of Neural integration: Diverging, Converging and Reverberating circuits.

- Lecture 13 handouts — Edit
- Lecture 14 handouts — Edit
- Video link for activity — Edit

Part I & II Video shown in the class:

Reference videos:

Lecture 15 Edit

Lecture 16 Edit

Lecture 17 18 Edit

Lecture 19 Edit

Add an activity or resource

Module 3

Edit

Learning and Memory types and its Neural and Cellular basis in Aplysia, Drosophila, Honey bee and Humans. Cognition and its major domains. Mechanoreception, Photoreception, Chemoreception. Neurophysiology of Balance and Posture.

Lecture 18 handout 25-28 Edit

Lecture 29-30 handout Edit

Lecture 31-32 handout Edit

Presentation Topics Edit

Add an activity or resource

Life Processes Practical

Edit

Experiment 1 learning and memory pdf 1 on snail experiment Edit

Experiment 1 learning and memory pdf 1 on Crab Edit

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Add topics

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Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

Announce something to your class

Dr. Shanti N. Dessai posted a new material: Study material for EVS

Posted Jul 1

1 NIOS_ENVIRONMENT_...

Add class comment...

Dr. Shanti N. Dessai
May 2

Environmental science

Link

1 class comment

Dr. Shanti N. Dessai Jul 1
check the link

Add class comment...

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

My hearty congratulations to her and happy that she was part of this group.
Congratulations Shrishti

Add class comment...

Dr. Shanti N. Dessai
Mar 25

CSIR NET ranking is out, kindly check

Add class comment...

Dr. Shanti N. Dessai
Mar 9

Please check your CSIR NET results

Add class comment...

Dr. Shanti N. Dessai
Feb 16

Best of luck for tomorrow's exam, please keep up time! 🌷

Add class comment...

Dr. Shanti N. Dessai posted a new material: Developmental Biology MCQ test

Posted Feb 14

Answerkey will be provided after individual request.

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

Dr. Shanti N. Dessai posted a new material: MCQ test on molecular biology

Posted Feb 12

Compulsory for everyone to attempt these two MCQ files. Answerkey will be shared individually if requested tomorrow morning. So i expect you all to attempt it today evening.

Molecular Biology MCQ ...
Molecular Biology MCQ ...

Add class comment...

Dr. Shanti N. Dessai
Feb 2

Points to be noted for NET

Screenshot_20220202-1...
Screenshot_20220202-1...

Add class comment...

Dr. Shanti N. Dessai posted a new material: Unit 8 Inheritance Biology

Posted Jan 31

Inheritance biology MC...
Inheritance biology MC...

Add class comment...

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

All topics

Create

Developmental Biology MCQ test	Posted Feb 14
Unit 8 Inheritance Biology	Posted Jan 31
Unit 6 System physiology plant	Posted Jan 28
Unit 7 System physiology MCQ test	Posted Jan 27
Unit 11 Evolution and Behaviour MCQ...	Posted Jan 26
Diversity of life forms MCQ tests	Posted Jan 20
MCQ test on Ecological principles	Posted Jan 18
MCQ test on Cellular Organization 3	Edited Jan 16
Reviews	*Draft*
CSIR Net exam application form 1	Edited Dec 5, 2021

View more

EVS Study material

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

Unit 3 Molecular Biology

MCQ test on molecular biology — Posted Feb 12

Unit 11 Evolution and Behaviour

Brain, behaviour and evolution — Edited Dec 30, 2021

Theories of evolution — Edited Dec 21, 2021

Playlist for Evolutionary biology and ... — Posted Dec 22, 2021

Unit 10

Ecological principles — Edited Dec 22, 2021

Unit 2

Unit 2 part 2 — Posted Oct 1, 2021

Unit 2: Plasmamembrane and cell... 1 — Edited Oct 1, 2021

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

Teachers

Dr. Shanti N. Dessai

Students

49 students

Actions

Melvita Alvares

Anthea Baracho

Bernice Ben

Shristi Chahal

Shristi Chahal

Tanvi Chari

Advinson D'Souza

Pragati Deikar

Prajval Desai

Joyce Fernandes

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

- Sanjeet Gaonkar
- Mayur Gawas
- Ram Gawas
- Aamir Jakati
- Jyoti Jha
- GARGEE KALANG...
- Akshadha Khandep...
- Ganraj Kholkar
- Shreya Khorjuvekar
- Shravani Korgaonker
- Anusha Kunde
- Anamika Kunkolkar
- Anouska Mascaren...
- Sonia Morajkar
- Gaurav Naik

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

- Nikita Naik
- Priyanka Naik
- Shivani Naik
- Shivani Naik
- Shreya Naik
- Siddi Naik
- Tanya Natekar
- Sakshi Navelkar
- Prapti Nayak
- Joanna Patric
- Antara Poi Raiturker
- Sarita Rebelo
- DIVYA SHENVI
- Riddhi Shetkar
- Sanira Simoes

Shanti's NET/SET Mentoring class
CSIR-UGC NET

Stream Classwork People Grades

- kandukuri sravya
- PRACHI TALAVNEK...
- Viraj Vaigankar
- Swen Varghese
- seema vishwakarma
- Naik Vithal

3861

CloudCodes Software Private Limited
303-P2, Pentagon Towers
Magarpatta Cybercity, Hadapsar
Pune 411028
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

CloudCodes™ ZERO TRUST APPROACH

2021

Tax Invoice

Invoice No.	: **CCS/20-21/107**	Place Of Supply	: **Goa (30)**
Invoice Date	: **10 Jun 2020**	Domain Name	: **unigoa.ac.in**
Terms	: **Net 30**	Subscription Start Date	: **30 May 2020**
Due Date	: **10 Jul 2020**	Subscription End Date	: **29 May 2021**
		Users	: **1**
		Order Type	: **Renewal**

Head of Computer Centre
Goa University
Taleigao Plateau Goa

Bill To	**Ship To**
GOA University Taleigao Plateau, - 403206 Goa, India GSTIN : 30AAAJG1189Q1Z1 M Chakraborty : 09422575575	-

#	Item & Description	HSN/SAC	Qty	Rate	IGST %	IGST Amt	Amount
1	CloudCodes for GSuite	998314	1.00	75,000.00	18%	13,500.00	75,000.00

Total In Words
Rupees Eighty-Eight Thousand Five Hundred Only

Sub Total	75,000.00
IGST18 (18%)	13,500.00
Total	**88,500.00**
Balance Due	**88,500.00**

CloudCodes Software Pvt Ltd

Authorized Signature

Thanks for your business. For any questions in regards to billing please contact us on sales@cloudcodes.com.
Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

Payment Options PayPal

88500/-
less TDS @ 1.5% on 75000/- (-) 1125/-
87375/-

PASSED FOR PAYMENT
Rs. 88500/- (Eighty eight thousand five hundred only)
D.H. 01/7/2020 AR(F)

Terms & Conditions

If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -ICICI Bank
Bank Account Detail - 091505001642
MICR Code / Bank key - 411229022
IFSC Code - ICIC0000581
Swift Code - ICICINBB
Bank Address - – Farena Corporate Park, Unit No.3, Ground Floor, Magarpatta Rd., Pune-Maharashtra-411013.

20-21

CloudCodes™
ZERO TRUST APPROACH

CloudCodes Software Private Limited
303-P2, Pentagon Towers
Magarpatta Cybercity, Hadapsar
Pune 411028
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

Tax Invoice

Invoice No.	**: CCS/20-21/460**	Place Of Supply	**: Goa (30)**
Invoice Date	**: 01/02/2021**	Domain Name	**: unigoa.ac.in**
Terms	**: Net 30**	Subscription Start Date	**: 01/12/2019**
Due Date	**: 03/03/2021**	Subscription End Date	**: 29/05/2021**
		Users	**: 1**
		Order Type	**: Renewal**

Bill To

GOA University
Taleigao Plateau,
- 403206
Goa, India
GSTIN : 30AAAJG1189Q1Z1
M Chakraborty : 09422575575

#	Item & Description	Qty	Rate	IGST %	IGST Amt	Amount
1	CloudCodes for EDU - SSO	1.00	75,000.00	18%	13,500.00	75,000.00

Sub Total	75,000.00
IGST18 (18%)	13,500.00
Total	**88,500.00**
Balance Due	**88,500.00**

Total In Words
Rupees Eighty-Eight Thousand Five Hundred Only

CloudCodes Software Pvt Ltd.
Authorized Signature

Thanks for your business. For any questions in regards to billing please contact us on sales@cloudcodes.com.
Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

88500/-
less TDS @ 1.5% on 75000/- (-) 1125/-
87375/-

PASSED FOR PAYMENT
Rs. 88500/- (Eighty eight thousand five hundred only)
D.H. 10/02/21
AR(F) / F.C

Payment Options PayPal

Terms & Conditions
If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -ICICI Bank
Bank Account Detail - 091505001642
MICR Code / Bank key - 411229022
IFSC Code - ICIC0000581
Swift Code - ICICINBB
Bank Address - – Farena Corporate Park, Unit No.3, Ground Floor, Magarpatta Rd., Pune-Maharashtra-411013.

O/C

4061c

CloudCodes™
ZERO TRUST APPROACH

CloudCodes Software Private Limited
P1-404, Pentagon Towers
Magarpatta Cybercity, Hadapsar
Pune 411028
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

Tax Invoice

Invoice No.	**: CCS/21-22/116**	Place Of Supply	**: Goa (30)**
Invoice Date	**: 01/07/2021**	Domain Name	**: unigoa.ac.in**
Terms	**: Net 30**	Subscription Start Date	**: 01/06/2021**
Due Date	**: 31/07/2021**	Subscription End Date	**: 30/11/2021**
P.O.	**: GU/7/57/12-CC/421**	Users	**: 2181**
		Order Type	**: Renewal**

Bill To

GOA University
Taleigao Plateau,
- 403206
Goa, India
GSTIN : 30AAAJG1189Q1Z1
M Chakraborty : 09422575575

88500
less 2% TDS 1500
87000/-

#	Item & Description	HSN/SAC	Qty	Rate	IGST %	IGST Amt	Amount
1	CloudCodes for Business Plan - Education	998314	1.00	75,000.00	18%	13,500.00	75,000.00

Sub Total	75,000.00
IGST18 (18%)	13,500.00
Total	**88,500.00**
Balance Due	**88,500.00**

CloudCodes Software Pvt Ltd

Authorized Signature

Total In Words
Rupees Eighty-Eight Thousand Five Hundred Only

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Thanks for your business. For any questions in regards to billing please contact us on sales@cloudcodes.com.
Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

भारत राजस्व REVENUE INDIA 100P.

Terms & Conditions

If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -ICICI Bank
Bank Account Detail - 091505001642
MICR Code / Bank key - 411229022
IFSC Code - ICIC0000581
Swift Code - ICICINBB
Bank Address - – Farena Corporate Park, Unit No.3, Ground Floor, Magarpatta Rd., Pune-Maharashtra-411013.

ISSUED FOR PAYMENT
Rs. 88500/- [Rs. Eighty Eight Thousand Five Hundred only]

D.H.

AR(F) / F.C

408/C

CloudCodes Software Private Limited
P1-404, Pentagon Towers
Magarpatta Cybercity, Hadapsar
Pune 411028
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

CloudCodes™
ZERO TRUST APPROACH

21-22

Tax Invoice

Invoice No.	: **CCS/21-22/353**	Place Of Supply	: **Goa (30)**
Invoice Date	: **31/01/2022**	Domain Name	: **unigoa.ac.in**
Terms	: **Net 30**	Subscription Start Date	: **01/12/2021**
Due Date	: **02/03/2022**	Subscription End Date	: **31/05/2022**
P.O.	: **GU/7/57/12-CC/421**	Users	: **2181**
		Order Type	: **Renewal**

Bill To

GOA University
Taleigao Plateau,
- 403206
Goa, India
GSTIN : 30AAAJG1189Q1Z1
M Chakraborty : 09422575575

#	Item & Description	HSN/SAC	Qty	Rate	IGST %	IGST Amt	Amount
1	CloudCodes for Business Plan - Education	998314	1.00	75,000.00	18%	13,500.00	75,000.00

Sub Total	75,000.00
IGST18 (18%)	13,500.00
Total	**88,500.00**
Balance Due	**88,500.00**

Total In Words
Rupees Eighty-Eight Thousand Five Hundred Only

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Thanks for your business. For any questions in regards to billing please contact us on sales@cloudcodes.com.
Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

CloudCodes Software Pvt Ltd.
Authorized Signature

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

PASSED FOR PAYMENT
Rs. 88500/- (Eighty eight thousand five hundred only)
D.H. 21/04/22 AR(F) / F.C

88500/-
Less TDS @ 2% on 75000/-
1500/-
87000/-

Terms & Conditions

If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -ICICI Bank
Bank Account Detail - 091505001642
MICR Code / Bank key - 411229022
IFSC Code - ICIC0000581
Swift Code - ICICINBB
Bank Address - - Farena Corporate Park, Unit No.3, Ground Floor, Magarpatta Rd., Pune-Maharashtra-411013.

O/C

478/C

22-23

CloudCodes™
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CloudCodes Software Private Limited
P1-404, Pentagon Towers
Magarpatta Cybercity, Hadapsar
Pune 411028
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

Tax Invoice

Invoice No.	: **CCS/22-23/107**	Place Of Supply	: **Goa (30)**
Invoice Date	: **22/07/2022**	Domain Name	: **unigoa.ac.in**
Terms	: **Due on Receipt**	Subscription Start Date	: **01/06/2022**
Due Date	: **22/07/2022**	Subscription End Date	: **30/11/2022**
P.O.	: **GU/7/57/12-CC/894**	Users	: **2181**
		Order Type	: **Renewal**

Bill To

GOA University
Taleigao Plateau,
- 403206
Goa, India
GSTIN : 30AAAJG1189Q1Z1
M Chakraborty : 09422575575

#	Item & Description	HSN/SAC	Qty	Rate	IGST %	IGST Amt	Amount
1	CloudCodes for Business Plan - Education	998314	1.00	75,000.00	18%	13,500.00	75,000.00

Total In Words
Rupees Eighty-Eight Thousand Five Hundred Only

Sub Total	75,000.00
IGST18 (18%)	13,500.00
Total	**88,500.00**
Balance Due	**88,500.00**

CloudCodes Software Pvt Ltd

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Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

88,500
TDS @ 2% on 75,000 1,500
TDS @ 2% on 75,000 1,500
85,500/-

Terms & Conditions

If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -ICICI Bank
Bank Account Detail - 091505001642
MICR Code / Bank key - 411229022
IFSC Code - ICIC0000581
Swift Code - ICICINBB
Bank Address - – Farena Corporate Park, Unit No.3, Ground Floor, Magarpatta Rd., Pune-Maharashtra-411013.

PASSED FOR PAYMENT
Rs. 88,500/-
Eighty-eight thousand Five hundred only
D.H. 10/7/22 AR(F) / F.C

4841

Plurilock

2223

TAX INVOICE

GOA University
Attention: M Chakraborty
Taleigao Plateau
GOA GOA 403206
INDIA
Tax Number: 30AAAJG1189Q1Z1

Invoice Date
2 Dec 2022

Invoice Number
PSP/22-23/165

Reference
Order Type : Renewal

Plurilock Security Private Limited
2, Carnation, Yari Road,
Versova, Andheri West,
Mumbai, Maharashtra
400061, India
GSTIN:
27AAMCP1546M1ZX
PAN : AAMCP1546M
alka.muni@plurilock.com

Item	Description	Quantity	Unit Price	Tax	Amount INR
998314	CloudCodes for Business Plan - Education Domain Name : unigoa.ac.in Renewal Period : 01 Dec 2022 to 31 May 2023 Half yearly billing	1.00	75,000.00	18%	75,000.00

Subtotal	75,000.00
TOTAL IGST 18%	13,500.00
TOTAL INR	**88,500.00**

PASSED FOR PAYMENT
Rs. 88500/-
D.H. 22/01/23
AR(F)/F.O

Due Date: 10 Dec 2022
Bank Name: The Hongkong Shanghai Banking Corp. Ltd (HSBC)
Branch: 52/60, M.G.Road, Mumbai 400 001
Beneficiary Name : Plurilock Security Private Limited
Bank Account No. : 006 365 274 001
IFSC : HSBC0400002

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885W/-
Less. TDS @ 2% on 75W/- (-) 1500/-
IGST @ 2% on 75W/- (-) 1500/-
855W/-

O/C

Plurilock

23-24

Computer Centre
No. : 308
Date: 11/7/23

53412

TAX INVOICE

GOA University
Attention: M Chakraborty
Taleigao Plateau
GOA GOA 403206
INDIA
Tax Number: 30AAAJG1189Q1Z1

Invoice Date
10 Jul 2023

Invoice Number
PSP/23-24/163

Reference
Renewal - unigoa.ac.in

Plurilock Security Private Limited
2, Carnation, Yari Road,
Versova, Andheri West,
Mumbai, Maharashtra
400061, India
GSTIN:
27AAMCP1546M1ZX
PAN : AAMCP1546M
alka.muni@plurilock.com

Head of Computer Centre
Goa University
Taleigao Plateau, Goa

Item	Description	Quantity	Unit Price	Tax	Amount INR
998314	Plurilock CloudCodes for Business Plan - Education Domain Name : unigoa.ac.in Renewal Period : 01 June 2023 to 30 November 2023 Half Yearly Billing Purchase Order No. GU/7/57/12-CC/930 dtd 06.07.2023	1.00	75,000.00	18%	75,000.00
				Subtotal	75,000.00
			TOTAL IGST 18%		13,500.00
			TOTAL INR		88,500.00

PASSED FOR PAYMENT
Rs. 88500/-
D.H. 18/7/23 AR(F)/F.O

88500/-
(-) 1500/-
87000/-

Due Date: 9 Aug 2023
Bank Name: The Hongkong Shanghai Banking Corp. Ltd (HSBC)
Branch: 52/60, M.G.Road, Mumbai 400 001
Beneficiary Name : Plurilock Security Private Limited
Bank Account No. : 006 365 274 001
IFSC : HSBC0400002

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Plurilock

23-24

Computer Centre
No.: 815
Date: 9/01/2024

558/c

TAX INVOICE

GOA University
Attention: M Chakraborty
Taleigao Plateau
GOA GOA 403206
INDIA
Tax Number: 30AAAJG1189Q1Z1

Invoice Date
4 Dec 2023

Invoice Number
PSP/23-24/360

Reference
Renewal - unigoa.ac.in

Plurilock Security Private Limited
5, Lila Apartments, Yari Road, Versova, Andheri West, Mumbai,
Maharashtra 400061, India
GSTIN: 27AAMCP1546M1ZX
PAN : AAMCP1546M
alka.muni@plurilock.com

Item	Description	Quantity	Unit Price	Tax	Amount INR
8314	Plurilock CloudCodes for Business Plan - Education Domain Name : unigoa.ac.in Renewal Period : 01 Dec 2023 to 31 May 2024 Half Yearly Billing Purchase Order No. GU/7/57/12-CC/930 dtd 06.07.2023	1.00	75,000.00	18%	75,000.00
				Subtotal	75,000.00
				TOTAL CGST 9%	6,750.00
				TOTAL SGST 9%	6,750.00
				TOTAL INR	88,500.00

PASSED FOR PAYMENT
Rs. 88500/-
D.H 9/01/24 AR(F)/E.O

88500/-
less TDS @ 2% on 75000/- (-) 1500/-
87000/-

Due Date: 18 Dec 2023
Bank Name: The Hongkong Shanghai Banking Corp. Ltd (HSBC)
Branch: 52/60, M.G.Road, Mumbai 400 001
Beneficiary Name : Plurilock Security Private Limited
Bank Account No. : 006 365 274 001
IFSC : HSBC0400002

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Upgrade to our enhanced Data Loss Prevention (DLP) and Email DLP solutions for:
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- Advanced Threat Detection
- User-Friendly Controls
- Regulatory Compliance
- Email DLP offers content filtering, encryption, phishing protection, and attachment control.

UDC

Fortify your defenses today. Explore how our solutions can elevate your security. Contact us (support@cloudcodes.com / renewals@cloudcodes.com) for a consultation. As an existing customer, try it free for 30 days!

22-23 (21-22)

Computer Centre
No.: 899
Date: 24/3/22

4561

Cloud Companions
Your Companion towards Cloud Journey

TAX INVOICE

Invoice# CCP/21-22/673

Balance Due
2,13,875.00

CloudCompanions Technology Pvt. Ltd
1st Floor, Sky Loft, Creaticity Mall, Opposite Golf Course
Shastrinagar, Yerawada
Pune Maharashtra 411006
India
GSTIN 27AAHCC4526F1ZS

Bill To
GOA UNIVERSITY
Taleigao Plateau
403206 Goa
India
GSTIN 30AAAJG1189Q1Z1

Ship To
GSTIN 30AAAJG1189Q1Z1

Place Of Supply: Goa (30)

Invoice Date :	07/03/2022
Terms :	Due on Receipt
Due Date :	07/03/2022
P.O.# :	GU/7/57/22-CC/2171

#	Item & Description	Qty	Rate	Amount
1	Google Workspace for Education Domain- unigoa.ac.in (Teaching and Learning Upgrade) Gmail for Education- 100 TB Shared Storage + 100 GB Per user 250 Google Meet Participant Limit Meet Video recording & Live Streaming Attendance & Breakout Rooms Calendar - Simple, Sharing for Teamwork Gtalk - Text, Voice & Video with Hangout Google Drive & Google Docs Google Sites - Intranet Portals made easy Google Vault Features (Billing Period- 7th March 2022 to 6th March 2023) Technical Support (365x24x7) Phone, Email Web-based (help center, user-to-user forum)	125.00	1,450.00	1,81,250.00

2138875/-
Less: TDS @ 2% on 181250/- (-) 3625/-
IGST TDS @ 2% (-) 3625/-
2066625/-

PASSED FOR PAYMEN
Rs. 2138875/- (Two lacs thirteen thousand eight hundred seventy five)
D.H.
AR(F) / F.C

Sub Total	1,81,250.00
IGST18 (18%)	32,625.00
Total	**2,13,875.00**
Balance Due	**2,13,875.00**

CLOUDCOMPANIONS TECHNOLOGY PVT. LTD

O/C

24.3.2022

Cloud Companions

Your Companion towards Cloud Journey

23-24

Computer Centre
No. : 1056
Date: 13/3/23

504/c

TAX INVOICE

Invoice# CCP/22-23/872

Balance Due
2,13,875.00

CloudCompanions Technology Pvt. Ltd
1st Floor, Sky Loft, Creaticity Mall, Opposite Golf Course
Shastrinagar, Yerawada
Pune Maharashtra 411006
India
GSTIN 27AAHCC4526F1ZS

Bill To
GOA UNIVERSITY
Taleigao Plateau
403206 Goa
India
GSTIN 30AAAJG1189Q1Z1

Ship To
GSTIN 30AAAJG1189Q1Z1

Invoice Date :	06/03/2023
Terms :	Due on Receipt
Due Date :	06/03/2023
P.O.# :	GU/7/57/22-CC/1142

Place Of Supply: Goa (30)

#	Item & Description	Qty	Rate	Amount
1	**Google Workspace for Education** Domain- unigoa.ac.in (Teaching and Learning Upgrade) Gmail for Education- 100 TB Shared Storage + 100 GB Per user (Total Storage = 112.5 TB) 250 Google Meet Participant Limit Meet Video recording & Live Streaming Attendance & Breakout Rooms Calendar - Simple, Sharing for Teamwork Gtalk - Text, Voice & Video with Hangout Google Drive & Google Docs Google Sites - Intranet Portals made easy Google Vault Features (Billing Period- 7th March 2023 to 6th March 2024)	125.00	1,450.00	~~1,81,250.00~~
	Technical Support (365x24x7) Phone, Email Web-based (help center, user-to-user forum)			

2138751-
less: TDS @2% on 181250/- (-) 3625/-
Less TDS @2% (-) 3625/-
2066251-

PASSED FOR PAYMENT
Rs. 2138751-
D.H. 16/4/23 AR(F)/F.O

Sub Total	1,81,250.00
IGST18 (18%)	32,625.00
Total	**2,13,875.00**
Balance Due	~~2,13,875.00~~

CLOUDCOMPANIONS TECHNOLOGY PVT. LTD.

13-3-2023

VDC

S/C

502/L

Notes

#INCOME TAX DECLARATION - TDS ON SOFTWARE SALES

We hereby declare that the software items mentioned in this Invoice are sold: Without any modification.
The company has already deducted TDS u/s 194J of the Income Tax on this software and made necessary arrangements for remitting the same as per the timeline prescribed by Income Tax Act, 1961.
PAN of the company is AAHCC4526F.
The Buyer has read, understood and agree for the contents of the Invoice and the enclosed Terms and Conditions. By availing and acknowledging the Cloud Services herein, the Buyer irrevocably agrees to abide by these terms and conditions overleaf which shall prevail over all previous, existing or contemporary communications exchanged between the parties, whether or not in writing including the terms of the Purchase order of the Buyer. The person signing this document has got the authority to bind the Buyer and to sign on behalf of the Buyer.

DECLARATION

Certified that all the particulars shown in the above Tax Invoice are true and correct in all respects. It is also certified that my/our Registration under the GST Act is valid on the date of this Bill.

Terms & Conditions

For any questions in regards to billing please contact us on finance@cloudcompanions.com
Company Registration Details
Company GST No. : 27AAHCC4526F1ZS
Company PAN No. : AAHCC4526F
SAC : 9983

If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCompanions Technology Pvt Ltd
Name of the Bank - ICICI Bank
Bank Account Detail - 058105002758
MICR Code / Bank key - 411229022
IFSC Code - ICIC0000581
Swift Code - ICICINBBCTS
Bank Address - Farena Corporate Park, Unit No.3, Ground Floor, Magarpatta Road, Pune, Maharashtra, India. Pincode - 411013

CLOUDCOMPANIONS TECHNOLOGY PVT. LTD.

CloudCodes Software Private Limited
A-10/502, Ganga Nebula,
Viman Nagar
Pune 411014
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

CloudCodes™

19-20

3641C

Tax Invoice

Invoice No.	: **CCS/19-20/194**	Place Of Supply	: **Maharashtra (27)**
Invoice Date	: **24 Jun 2019**	Domain Name	: **unigoa.ac.in**
Terms	: **Net 30**	Subscription Start Date	: **01 Jun 2019**
Due Date	: **24 Jul 2019**	Subscription End Date	: **30 Nov 2019**
P.O.	: **GU/7/57/12-CC/767**	Users	: **1**
		Order Type	: **Renewal**

Head of Computer Centre
Goa University
Taleigao Plateau Goa

Bill To

GOA University
Taleigao Plateau,
- 403206
Goa, India

M Chakraborty : 09422575575

PASSED FOR PAYMENT
Rs. 88500/- Eighty Eight thousand five hundred only
D.H. AR(F) / F.O

#	Item & Description	HSN /SAC	Qty	Rate	CGST %	CGST Amt	SGST %	SGST Amt	Amount
1	CloudcodesgControl - Annual Subscription CloudCodes For G-suite (gControl) Annual subscription Users: 2000 Duration - 1st June 2019- 30-Nov-2019	998314	1.00	75,000.00	9%	6,750.00	9%	6,750.00	75,000.00

88500
15-1500
87000/-

Total In Words
Rupees eighty-eight thousand five hundred

Sub Total	75,000.00
CGST9 (9%)	6,750.00
SGST9 (9%)	6,750.00
Total	**88,500.00**
Balance Due	**88,500.00**

CloudCodes Software Pvt Ltd

Authorized Signature

Thanks for your business. For any questions in regards to billing please contact us on sales@cloudcodes.com.
Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

Payment Options PayPal

PASSED FOR PAYMENT
Rs. .....
.....
D.H. AR(F) / F.O

Terms & Conditions

If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -Bank of India
Bank Account Detail - 053720110000344
MICR Code / Bank key - 411013039
IFSC Code - BKID0000537

368/C

CloudCodes Software Private Limited
303-P2, Pentagon Towers
Magarpatta Cybercity, Hadapsar
Pune 411028
India
https://www.cloudcodes.com
GSTIN: 27AAECC6336Q1Z4

CloudCodes™
ZERO TRUST APPROACH

19-20

Tax Invoice

Invoice No.	**: CCS/19-20/564**	Place Of Supply	**: Maharashtra (27)**
Invoice Date	**: 12 Dec 2019**	Domain Name	**: unigoa.ac.in**
Terms	**: Net 30**	Subscription Start Date	**: 01 Dec 2019**
Due Date	**: 11 Jan 2020**	Subscription End Date	**: 31 May 2020**
P.O.	**: PO No.: GU/7/57/12-CC/767 Date : 21st June 2019**	Users	**: 1**
		Order Type	**: Renewal**

Bill To

GOA University
Taleigao Plateau,
- 403206
Goa, India
:
M Chakraborty : 09422575575

#	Item & Description	HSN /SAC	Qty	Rate	CGST %	CGST Amt	SGST %	SGST Amt	Amount
1	CloudCodes for GSuite Annual subscription Users: 2000 Duration - 1st Dec 2019-31st May 2020	998314	1.00	75,000.00	9%	6,750.00	9%	6,750.00	75,000.00

Total In Words
Rupees Eighty-Eight Thousand Five Hundred Only

Sub Total	75,000.00
CGST9 (9%)	6,750.00
SGST9 (9%)	6,750.00
Total	**88,500.00**
Balance Due	**88,500.00**

Thanks for your business. For any questions in regards to billing please contact us on sales@cloudcodes.com.
Kind attention - All delayed payments will attract 2% interest per month from the due date mentioned on the invoice.

Company Registration Details
GST No- 27AAECC6336Q1Z4
Company PAN No. : AAECC6336Q
HSN No : 998313

CloudCodes Software Pvt.Ltd.

Authorized Signature

88500.00
Less TDS @ 2% on 75000 (-) 1500.00
87000.00

Payment Options PayPal

Terms & Conditions
If you would like to do a Bank Transfer below is the information
Beneficiary Name - CloudCodes Software Pvt Ltd
Name of the Bank -Bank of India
Bank Account Detail - 053720110000344
MICR Code / Bank key - 411013039
IFSC Code - BKID0000537
Swift Code - BKIDINBBPMB
Bank Address - Viman Nagar Branch, Viman Nagar, Pune, Maharashtra, India. Pincode – 411014.

PASSED FOR PAYMENT
Rs. 88500/- (Eighty eight thousand five hundred only)
30/12/19
DAT. 30/12/19 AR(F) / F.C

O/C

Lab course II Based
Comparative animal physiology

Stream Classwork People Grades

Lab course II Based

Comparative animal physiology

Class code m5owsuu

Meet link Generate Meet link

Select theme
Upload photo

Upcoming

No work due soon

View all

Announce something to your class

Dr. Shanti N. Dessai posted a new material: Expt 4 Study of ECG and its evaluation in normal ...
Sep 1

Dr. Shanti N. Dessai posted a new material: Expt. 1 Study of human lung volumes and capaciti...
Sep 1

Dr. Shanti N. Dessai posted a new material: Measurement of muscular fatigue using Finger Er...
Aug 26

Dr. Shanti N. Dessai
Aug 26

Please get a print copy of the two files posted for tomorrow's practical. Or else you will have to manage with the soft copy either on your laptop or phone.

Add class comment...

Dr. Shanti N. Dessai posted a new material: Measurement of muscular fatigue using Finger Er...
Aug 26

Dr. Shanti N. Dessai posted a new material: Measurement of muscular fatigue using Finger Er...
Aug 26

Lab course II Based

Comparative animal physiology

Stream Classwork People Grades

+ Create

Respirometry software instructions f...	Posted Sep 17, 2021
ECG interpretation video	Posted Sep 16, 2021
Expt 4 Study of ECG and its evaluatio...	Posted Sep 1, 2021
Expt. 1 Study of human lung volumes ...	Posted Sep 1, 2021
Measurement of muscular fatigue us...	Posted Aug 26, 2021
Measurement of muscular fatigue us...	Posted Aug 26, 2021
Measurement of muscular fatigue us...	Posted Aug 26, 2021

Lab course II Based
Comparative animal physiology

Stream Classwork People Grades

Teachers

Students

31 students

Actions

- Bernice Ben
- Tanvi Chari
- Advinson D'Souza
- Pragati Deikar
- Prajval Desai
- Gracy Fernandes
- Joyce Fernandes
- Valanca Fernandes
- Sanjeet Gaonkar
- Ram Gawas
- Aamir Jakati

Lab course II Based
Comparative animal physiology

Stream Classwork People Grades

GARGEE KALANG...
Shreya Khorjuvekar
Anamika Kunkolkar
methadivya4@gm... (invited)
Sonia Morajkar
Gaurav Naik
Nikita Naik
samiksha naik
Siddi Naik
naikshreya589@g... (invited)
Prapti Nayak
Joanna Patric
Uma Pednekar
Sarita Rebelo
DIVYA SHENVI

Lab course II Based
Comparative animal physiology

Stream Classwork People Grades

siddhimandrekar9... (invited)

Sanira Simoes

Tawadkar Sunil

PRACHI TALAVNEK...

Viraj Vaigankar

Naik Vithal

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

Announce something to your class

Dr. Shanti N. Dessai posted a new material: Lecture hanout 33
Dec 10, 2021

Dr. Shanti N. Dessai posted a new material: Lecture handout 30 last part
Dec 10, 2021 (Edited Dec 10, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture handout 30-31-32
Dec 9, 2021 (Edited Dec 9, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 29 handout and video
Dec 7, 2021 (Edited Dec 27, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 28 handout and video
Dec 3, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 27 complete handout & ...
Dec 1, 2021 (Edited Dec 1, 2021)

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

Nov 26, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 26 last part
Nov 25, 2021 (Edited Nov 30, 2021)

Dr. Shanti N. Dessai posted a new material: E-Pathshala reference
Nov 25, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 26 lecture video and han...
Nov 18, 2021 (Edited Nov 25, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 17 (last part), 18, 19 & 20 ...
Nov 12, 2021 (Edited Nov 16, 2021)

Dr. Shanti N. Dessai posted a new material: Compulsory viewing: DNA repair...
Nov 12, 2021 (Edited Nov 12, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture handout 15 & video
Nov 11, 2021 (Edited Nov 11, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture hanout 17 and video
Nov 11, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 16 handout and video
Nov 11, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 14
Oct 30, 2021 (Edited Nov 1, 2021)

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

Dr. Shanti N. Dessai posted a new material: Lecture 8 video part 1, 2, 3 + lect...
Oct 3, 2021 (Edited Oct 5, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 7 handout and video
Sep 27, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 6 video last part
Sep 23, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 6 video lampbrush chro...
Sep 21, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 6 part 2 video
Sep 21, 2021

Dr. Shanti N. Dessai posted a new material: Lecture six video
Sep 20, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 5 video last part
Sep 8, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 6 handout
Sep 8, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 5 part 3
Sep 8, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 5 video part 2

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

Dr. Shanti N. Dessai posted a new material: Lecture 5 handout
Sep 6, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 2 video last part cum lec...
Aug 31, 2021 (Edited Sep 6, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 4 handout
Aug 31, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 2 video part 2
Aug 31, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 2 Video Part 1
Aug 24, 2021 (Edited Aug 31, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 2 handout
Aug 23, 2021

Dr. Shanti N. Dessai posted a new material: Lecture 1 handout
Aug 21, 2021 (Edited Aug 21, 2021)

Dr. Shanti N. Dessai posted a new material: Lecture 1 Video
Aug 21, 2021

Dr. Shanti N. Dessai posted a new material: Course Schedule
Aug 21, 2021

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

All topics

+ Create

Lecture 26 last part — Edited Nov 30, 2021

lecture 8 part 4,5,6 module over — Edited Oct 11, 2021

Lecture 8 video part 1, 2, 3 + lecture ... — Edited Oct 5, 2021

Lecture 7 handout and video — Posted Sep 27, 2021

Lecture 6 video last part — Posted Sep 23, 2021

Lecture 6 video lampbrush chromos... — Posted Sep 21, 2021

Lecture 6 part 2 video — Posted Sep 21, 2021

Lecture six video — Posted Sep 20, 2021

Lecture 5 video last part — Posted Sep 8, 2021

Lecture 6 handout — Posted Sep 8, 2021

View more

YouTube Channel links

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

BOOKS

Students will see this topic once work is added to it

Module 3

Lecture hanout 33	Posted Dec 10, 2021
Lecture handout 30 last part	Edited Dec 10, 2021
Lecture handout 30-31-32	Edited Dec 9, 2021
Lecture 29 handout and video	Edited Dec 27, 2021
Lecture 28 handout and video	Posted Dec 3, 2021
Lecture 27 complete handout & Video	Edited Dec 1, 2021
Lecture 27 part I handout and video II	Posted Nov 26, 2021
Lecture 26 lecture video and handout	Edited Nov 25, 2021
E-Pathshala reference	Posted Nov 25, 2021

Module 2

Lecture 17 (last part), 18, 19 & 20 han...	Edited Nov 16, 2021

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

Lecture 16 handout and video	Posted Nov 11, 2021
Lecture handout 15 & video	Edited Nov 11, 2021
Lecture 14	Edited Nov 1, 2021

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

Teachers

Dr. Shanti N. Dessai

Students

37 students

Actions

Melvita Alvares

Anjali Amonkar

Anthea Baracho

Shatakshi Bhat

Vianney Antonio C...

Mugdha Chodankar

Jonathan D'Costa

Dicema Dias

Feazel Dias

feazeldias03@gma... (invited)

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

- Anuraj Gaonkar
- Sona Gaonkar
- pooja gaude
- gaunekarr@gmail.... (invited)
- Riya Gawas
- Vibhuti Gawas
- Vrunda Gayak
- Akshaya Karekar
- Vibhuti Kasar
- Amrin Khatoon
- Ganraj Kholkar
- Riya Kudalkar
- Tejashri Mahale
- Anouska Mascaren...
- DIPSHIKA MHATO

ZOC 129 MOLECULAR BIOLOGY
THEORY

Stream Classwork People Grades

mugdha_chodanka... (invited)

Anchal Naik

Karishma Naik

Priyanka Naik

Vaishnavi Naik

Aishwarya Nene

Toobaa Nizami

Caren Noronha

Antara Poi Raiturker

prajyotikolambkar1... (invited)

Rashmi

rutvikmahale2@g... (invited)

Vikita Sakhalkar

Archana Sawant

Neeha Sinai Borker

गोंय विद्यापीठ
ताळगांव पठार
गोंय - ४०३ २०६.
फोन : ८६६९६०९०४८
फॅक्स : +९१-८३२-२४५११८४/२४५२८८९

Goa University
Taleigao Plateau, Goa - 403 206.
Tel : 8669609048
Fax : +91-832-2451184/2452889
Email : registrar@unigoa.ac.in
Website : www.unigoa.ac.in

(Accredited by NAAC with Grade 'A')

No.GU/Exam/55/2020/06 Dated: 03/06/2020

CIRCULAR

The University Teaching Departments and affiliated Colleges of Goa University may kindly take note that no Practical/Viva will be conducted face to face in the month of June 2020. All such academic activities will be conducted online.

Heads of the University Teaching Departments and Colleges/Institutions are requested to kindly adhere to these instructions strictly.

(M. Shreedhara)
Offg. REGISTRAR

To,

1. Heads of the University Teaching Departments, Goa University.
2. Principals/ /Deans of affiliated Colleges/Institutions

Copy to:

1. Joint Registrar (Academic)
2. Assistant Registrar-Exam-UG/PG/Prof.
3. P.S. to Vice Chancellor
4. P.A. to Registrar

गोंय विद्यापीठ
ताळगाव पठार 403206
गोंय, भारत

Tel: 8669609065
Fax: +91-832-2452889

State Public University since 1985
Recognized by UGC u/s 12-B
(Accredited by NAAC with A Grade)

Goa University
Taleigao Plateau 403206
Goa, India

Email: arpg@unigoa.ac.in
Website: www.unigoa.ac.in

GU/81/Acad-PG/Acad-Terms/2020-21/668

Date: 24/08/2020

CIRCULAR

Revised Academic Terms

In accordance with the Ordinance OS-1 of the Goa University and in supersession to Circular No. GU/81/Acad-PG/Acad-Terms/2020-21/664 dated 20-08-2020, the Revised Academic Terms applicable to PG Programmes M.A. /M Sc./ M.Com. /MBA/IMBA/M.C.A./ IMSC/B.L.I.Sc./M.L.I.Sc. (ON CAMPUS) for the academic year 2020-21 shall be as follows:

Item	Duration	No. of Days
• Reopening	17/08/2020	
• **Term -I**	17/08/2020 to 06/01/2021	
• Ganesh Chaturthi Break	24/08/2020 to 26/08/2020	03 days
• Teaching begins	01/09/2020	
• Diwali Break	14/11/2020 to 15/11/2020	02 days
• Teaching ends	21/12/2020	90 days
• Preparatory Break for students	22/12/2020 to 24/12/2020	03 days
• Christmas Break	25/12/2020 to 27/12/2020	03 days
• SEA- Sem. I / III and Repeat Exam and Assessment	28/12/2020 to 06/01/2021	11 days
• **Term-II**	07/01/2021 to 20/05/2021	
• Teaching begins	07/01/2021	
• Teaching ends	28/04/2021	90 days
• Preparatory Break for students	29/04/2021 to 01/05/2021	03 days
• SEA- Sem. II / IV and Repeat Exam. and Assessment	03/05/2021 to 17/05/2021	11 days
• Summer Vacation	21/05/2021 to 06/06/2021	17 days
• Reopening for AY 2021-22	07/06/2021 (Monday)	

Note: **Classes will be held exclusively in online mode until further notice.**

All breaks except the preparatory breaks shall be treated as Vacation for the Teachers.

Practical for Semester I, III & V shall be conducted at the end of the term.

Digitally signed by
PROF Y V REDDY
Date: 2020.08.24
'19:51:45 +05'30

(Prof. Y. V. Reddy)
REGISTRAR

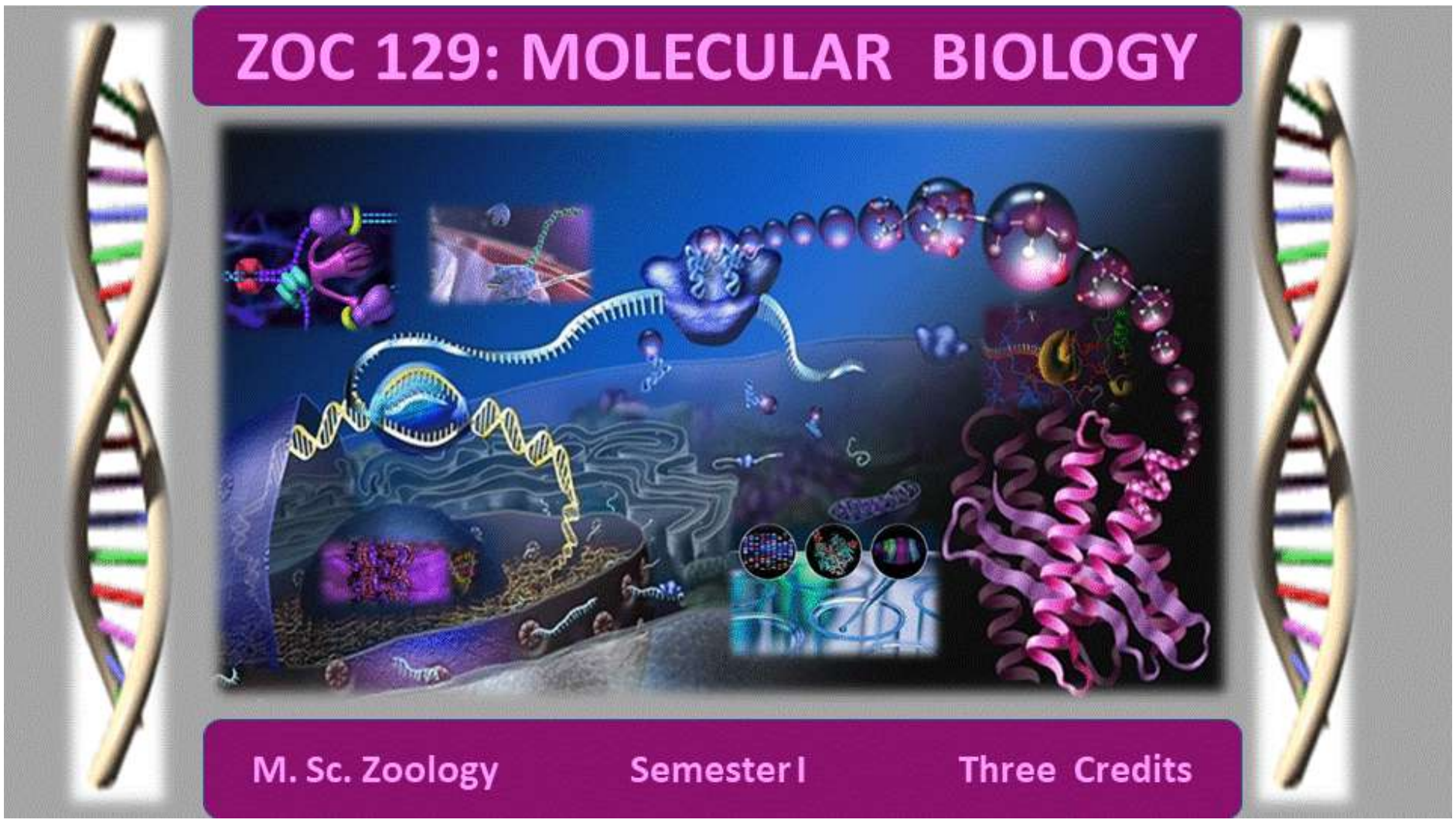
To,

1. All the Deans of Schools/Faculties
2. All the Heads of the University Teaching Departments
3. Controller of Examinations
4. Chairperson, Editorial Committee of Prospectus
5. All the Divisional/Sectional Heads
6. PS to VC
7. PA to R

ZOC 129: MOLECULAR BIOLOGY

Announcements

ZOC 129 : MOLECULAR BIOLOGY



Course Details

Course Schedule

Molecular Cell Biology, 4th edition Harvey Lodish, Arnold Berk, S Lawrence Zipursky, Paul Matsudaira, David Baltimore, and James Darnell.

Molecular Biology of the Cell, 4th edition Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, and Peter Walter.

An Introduction to Genetic Analysis, 7th edition Anthony JF Griffiths, Jeffrey H Miller, David T Suzuki, Richard C Lewontin, and William M Gelbart.

Biochemistry, 5th edition Jeremy M Berg, John L Tymoczko, and Lubert Stryer.

Modern Genetic Analysis Anthony JF Griffiths, William M Gelbart, Jeffrey H Miller, and Richard C Lewontin.

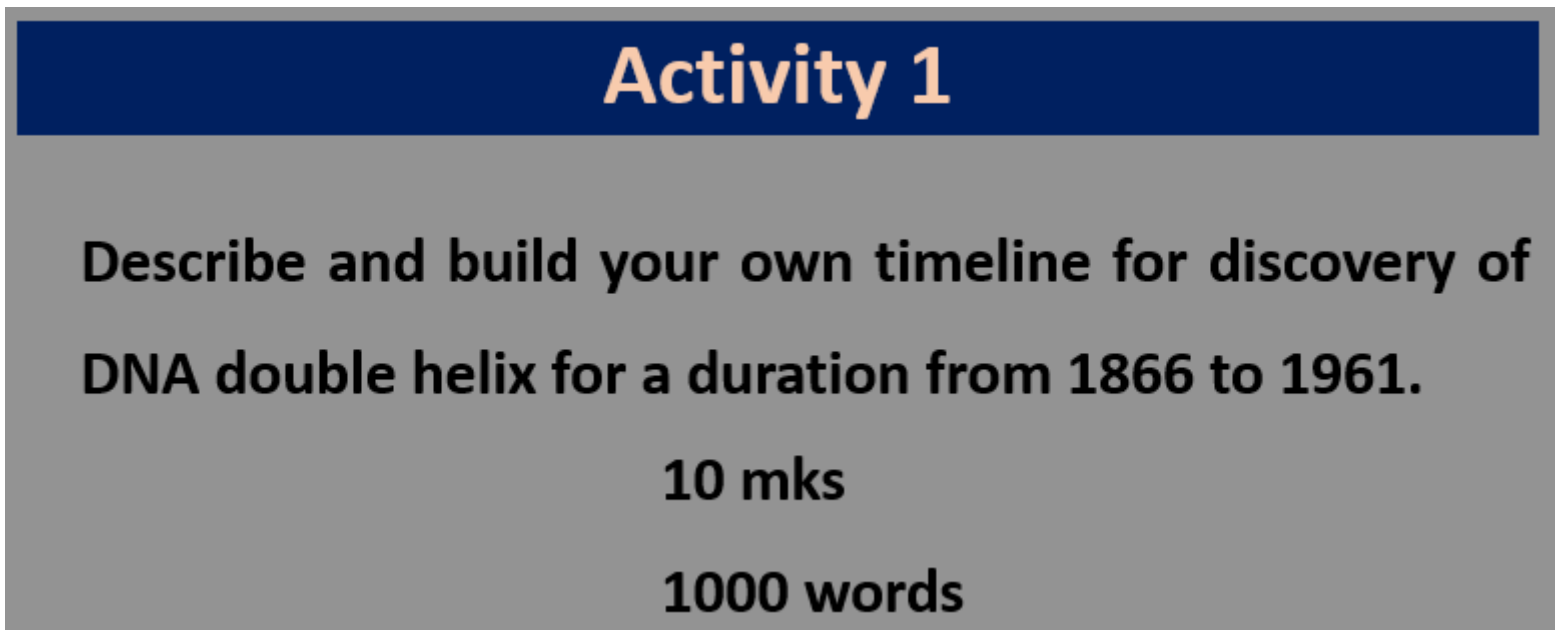
Genomes, 2nd edition Terence A Brown.

Molecular Biology of the Cell By Bruce Alberts

Molecular Biology By Philip C. Turner, Alexander G. McLennan

MODULE I

- Lecture 1 Handout
- Lecture 1 Video
- Lecture 2 handout
- Lecture 2 video Part 1
- Lecture 2 video Part 2
- Lecture 2 video last part and lecture 4 first part
- Science History institute
- Discovery of DNA Structure and Function: Watson and Crick
- The Discovery of DNA
- The discovery of the molecular structure of DNA - the double helix
- How I discovered DNA - James Watson
- Lies, Thieves and DNA
- The Discovery of the Structure of DNA: Double Helix, Biochemistry (2000)
- Lecture 9 - DNA Structure
- Three-dimensional double helical DNA structure directly revealed from its X-ray fiber diffraction pattern by iterative phase retrieval
- Activity 1



- Lecture 4 Handout
- Lecture 2 video last part and lecture 4 first part
- Lecture 4 video last part and Lecture 5 begining

Activity 2A & B

Activity 2 A

1. Describe various forces of attraction (weak & strong) that make up the DNA helix stable. 05 mks
   (Diagram + 400 word)
2. What are Inosine & Hypoxanthine and what is their significance in molecular biology? 05 mks
   (Diagram + 400 word)

Activity 2 B

1. Prepare a differentiating chart on types of DNA due to nucleotide conformations. 05 mks
   (Diagrams + Chart + description 300 words)

2. Describe types of DNA based on unusual DNA sequence structures. 05 mks
   (Diagrams + 500 words)

Lecture 4 video last part and Lecture 5 beginning

Lecture Handout 5

Lecture 5 video part 2

Lecture 5 video part 3

Lecture 5 video Last part

Activity 3

Activity 3

1. Describe various Repetitive DNA Sequences and their functions.
   05 mks mks
   (Diagrams + 1000 word)
2. Draw a chart explaining structure and function of Telomeres and Centromeres.
   05 mks mks
   (Diagrams with labelling)

Activity 4

Activity 4

1. Distinguish between Polytene Chromosome and Lampbrush Chromosome
   05 mks (Diagrams + 1000 word)

2. Prepare a detailed chart depicting Various Chromosomal Abrasions and related diseases.
   05 mks (Detailed Chart)

Lecture 5 Extra video

Hidden from students

Lecture 5 Extra Revised handout

Hidden from students

Lecture 6 Handout

Lecture 6 Video

Lecture 6 Activity video

Lecture 6 Activity video 2

Lecture 6 reference

Lecture 6 reference 1

Lecture 6 reference 2

Lecture 7 Handout

Activity 5

Activity 5

1. Give summaries of discoveries made in Genetics and Molecular Biology using *D. melanogaster* and *C. elegans* as animal models.
   10 mks 1000 words

Lecture 7 Video

Lecture 7 Drosophila Part I Video

Lecture 7 Drosophila Part II Video

Lecture 7 C. elegans Video

Introduction: Drosophila—A Model System for Developmental Biology

Advantages of using Drosophila Melanogaster as a Model Organism

Care Sheet: Flightless Fruit Fly (Drosophila melanogaster)

Lecture 8 Handout

Activity 6

Activity 6

1. Give a summary of Genome Evolution.
   10 mks 1000 words Max

Lecture 9 Handout Part I

Lecture 9 Handout Part II

Lecture 8 Video

Lecture 9 Part I Video

Lecture 9 Part I complete & II initiated Video

Activity 7

Activity 7

1. **What do you understand by Functional Chromosome ?**

   10 mks 500 words Max

Lecture 10 video Revision & Discussion

Molecular Biology YouTube Resources

dmflyboy

David J. Marcey, Ph.D.

Professor and Fletcher Jones Professor of Developmental Biology, California Lutheran University

Bob Trenwith

Rosie redfield

Professor , University of British Columbia

Genetics

Nucleic acids I

Lecture Series on BioChemistry I by Prof.S.Dasgupta, Dept of Chemistry, IIT Kharagpur NPTEL

Nucleic acids II

Lecture Series on BioChemistry I by Prof.S.Dasgupta, Dept of Chemistry, IIT Kharagpur NPTEL

Nucleic acids III

Lecture Series on BioChemistry I by Prof.S.Dasgupta, Dept of Chemistry, IIT Kharagpur NPTEL

Lecture 9 part II handout

MODULE 2

Hidden from students

Lecture 14 Handout

Lecture 15-16 Handout

Lecture 17 Complete Handout

Lecture 14 Part I video

Lecture 14 Part II video

Lecture 15 video

Lecture 16 video

Ames test (Technique to determine mutagenic potential)

Lecture 17 Part I video

Lecture 17 Part II video

DNA Repair Mechanism I Video BY EASY PEASY SEHER

DNA Repair Mechanism II Video BY EASY PEASY SEHER

Lecture 18 Handout

Lecture 18 video

Lecture 19-20 Handout

Lecture 19-20 video

Lecture video on Module I ISA feedback

P53 genes

Lecture 26 Primer Handout

Lecture 26 Primer video

Lecture 26 Part I

Lecture 26 Part I Handout

Lecture 26 last part video

Lecture 26 last part Handout

Transcription in prokaryotes 1

Transcription in prokaryotes 2

Transcription in prokaryotes 3

Submission link for Module II activities

Submission link for Module II Activities

Submission link for Module III activities

Submission link for Module III Activities

Lecture 26 lecture last part video

Lecture 26 lecture last part 2 handout

Lecture 27 lecture I transcription in Eukaryotes

Lecture 27 lecture Transcription in eukaryotes video

Lecture 3 part+ 27 part and lecture 28 part

Lecture3+ 27+28 lecture video 1

Lecture3+ 27+28 lecture video 2

Lecture 3+ 27+ 28 lecture video 3

Lecture 27 Splicing

Lecture 27 Splicing

Lecture 28 Part 1

Lecture 28 Part 1

Lecture 28 part II

Lecture 28 Part II

Lecture 28 Part III

Lecture 28 Part III

Lecture 29

Lecture 29 -2

Lecture 29 -3

Lecture 29-3

Lecture 30 part

Lecture 30 part video

Lecture 30-31-32 handout

Lecture 30-31-32 video

Lecture 33 handout

Lecture 33 video

My Field work Students Group

Hidden from students

Monthly Report

Monthly Report II

Monthly Report III

FAO Species identification sheets for fishery purposespdf

Bird Identification Guide

Bird Identification

Bird watching

Bird ringing

Bird identification

Bird identification

Bird identification

butterfly identification

butterfly identification

butterfly identification

Directorate of Digital Learning and Initiative (DDLI)

GOA UNIVERSITY

BILL

Ref. GU/19-DDLI/2021/05

Date: 26/03/2021

To
Chief Electoral Officer
Office of Chief Electoral Officer
Altinho
Goa.

Bill towards the recording of Course on Electoral Literacy.

Hiring Details

SR. NO.	SERVICE/FACILITY	NO. OF HOURS	HIRING CHARGES (in Rs.)
1	Studio charges @ 500/hr	20	10000
2	Chroma Screen@500/hr	20	10000
3	Cameras@studio@600/hr	20	12000
4	Cameras@outside studio@7000/day	2 days	14000
4	Audio@300/hr	25	7500
5	Editing@250/hr	80	20000

Total Amount: Rs. 73,500 /-
(Seventy Three Thousand and Five Hundred rupees only)

26/3/2021
(Prof. M.K. Janarthanam)
Director, DDLI

Please Note : The Payments may please be made through NEFT/RTGS referring the attached mandate form or through budget transfer to DDLI B. H. J-22(1)

Directorate of Digital Learning and initiative, Administrative office, Goa University, Taleigao Plateau, Tiswadi, Goa – 403206
Telephone : 8669609039, Email : ddli@unigoa.ac.in

GOA UNIVERSITY

Receipt Voucher

No. : **4114/22.4.21**

Dated : **22-Apr-21**

Particulars	Debit	Credit
To J-22(1) Rcpt.Tow.Hiring of Studio Fac.of DEITI		**73,500.00 Cr**
SBI 39504814114	**73,500.00 Dr**	
On Account of : Being amount received from Chief Electorial Officer towards studio hiring charges of course on Electoral Literacy. vide bank ref. chq.ref. no.333362		
	73,500.00	**73,500.00**

Amount In Words : Indian Rupees Seventy Three Thousand Five Hundred Only.

Prepared By

Acct/HC/UDC

AAO/Supt

AR/FO

List of the e-content development facilities available

ITEM NAME	GEOTAGGED PHOTOS
Rode NT 1 5th GEN(with accessories)	http://iqac.unigoa.ac.in/criterion4/4.3.3-Rode-NT-1-5th-GEN.jpg http://iqac.unigoa.ac.in/criterion4/4.3.3-Rode-PSA1-Studio-Boom-ARM-Plus.jpg http://iqac.unigoa.ac.in/criterion4/4.3.3-Rode-Mic-Stand-DS1.jpg
ATEM STREAMING BRIDGE & Adapters	http://iqac.unigoa.ac.in/criterion4/4.3.3-ATEM-STREAMING-BRIDGE.jpg
SENNHEISER WIRELESS Micro phone EW-DP ME2 Set	http://iqac.unigoa.ac.in/criterion4/4.3.3-SENNHEISER-WIRELESS-Micro-phone-EW-DP-ME2-Set.jpg
SENNHEISER EW DP-SKP	http://iqac.unigoa.ac.in/criterion4/4.3.3-SENNHEISER-EW-DP-SKP.jpeg
SHURE MX202B/C	http://iqac.unigoa.ac.in/criterion4/4.3.3-SHURE-MX202BC.jpg
CANON C 70 Camara	http://iqac.unigoa.ac.in/criterion4/4.3.3-CANON-C-70-Camara.jpg
Black magic vidio Assist 5 " 12 G	http://iqac.unigoa.ac.in/criterion4/4.3.3-Black-magic-video-Assist-5.jpg
Atomos NINJA V Plus	http://iqac.unigoa.ac.in/criterion4/4.3.3-Atomos-NINJA-V-Plus.jpg
Bi-Colour and RGBWW LED Lights	http://iqac.unigoa.ac.in/criterion4/4.3.3-Bi-Colour-and-RGBWW-LED-Lights.jpeg
10 KVA Online UPS System	http://iqac.unigoa.ac.in/criterion4/4.3.3-10-KVA-Online-UPS-System-1.jpg http://iqac.unigoa.ac.in/criterion4/4.3.3-10-KVA-Online-UPS-System-2.jpg
QNAP TS-H973AX 9-BAY NAS	http://iqac.unigoa.ac.in/criterion4/4.3.3-QNAP-NAS.jpg.jpeg
Personal Document Scanner	http://iqac.unigoa.ac.in/criterion4/4.3.3-Canon-Document-Scanner.jpg

Apple Macbook Pro Laptop	http://iqac.unigoa.ac.in/criterion4/4.3.3-Apple-Macbook-Pro-Laptop.jpg

Teranex mini & Hyperdeck studio	http://iqac.unigoa.ac.in/criterion4/4.3.3-Teranex-mini-&-Hyperdeck-studio.jpg
Dell Laptop	http://iqac.unigoa.ac.in/criterion4/4.3.3-Dell-Laptop.jpg
Elinchrom FRX400	http://iqac.unigoa.ac.in/criterion4/4.3.3-Elinchrom-FRX400.jpeg http://iqac.unigoa.ac.in/criterion4/4.3.3-Elinchrom-FRX400.jpeg
Focusrite Claret 8PRE X	http://iqac.unigoa.ac.in/criterion4/4.3.3-Focusrite-Claret-8PRE-X.jpg
Go Pro Hero 6 Black	http://iqac.unigoa.ac.in/criterion4/4.3.3-Go-Pro-Hero-6-Black.jpg
Harison L-12 DM Studio LED Light	http://iqac.unigoa.ac.in/criterion4/4.3.3-Harison-L12-DM-Studio-LED-Light.jpeg http://iqac.unigoa.ac.in/criterion4/4.3.3-Harison-L12-DM-Studio-LED-Light.jpeg
I Mac Pro 1	http://iqac.unigoa.ac.in/criterion4/4.3.3-I-Mac-Pro-1.jpg
IMac Pro 2	http://iqac.unigoa.ac.in/criterion4/4.3.3-I-Mac-Pro-2.jpg
Samvad Teleprompter	http://iqac.unigoa.ac.in/criterion4/4.3.3-Samvad-Teleprompter1.jpg
Sennheiser SL HeadMic Set	http://iqac.unigoa.ac.in/criterion4/4.3.3-Sennheiser-SL-HeadMic-Set.jpg
Tyrone Media Network SS	http://iqac.unigoa.ac.in/criterion4/4.3.3-Tyrone-Media-Network-SS.jpg
Wacom Pen Display	http://iqac.unigoa.ac.in/criterion4/4.3.3-Wacom-Pen-Display.jpg

Link to videos of the media centre and recording facility

- https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4
- http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4

1. For Swayam								
Name of the teacher	**Name of the module developed**	**Platform on which module is developed**	**Date of launching e content**	**Link to the relevant document and facility available in the institution**	**Link to the Supporting documents from the sponsoring agency for the e-content developed by the teacher/**	**List of the e-content development facility available**	**Provide link to videos of the media centre and recording facility**	
Natasha Maria Gomes	All 4 quadrants of 4 new weeks Week 5: Recap Week Week 6: Creating LxI Week 7 - Orchestrating an LCM Week 8 - Summary Week	SWAYAM	January 2024 to March 2024	https://onlinecourses.nptel.ac.in/noc24_ge12/preview	Letter of Appreciation http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes.pdf Other Proof	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	
Dr. Pournima Dhume Shinkre	Quadant 4: Online discussion forum of all modules of the 8 week MOOC offered from January 2024 to March 2024	SWAYAM	January 2024 to March 2024	https://onlinecourses.nptel.ac.in/noc24_ge12/course	Letter of Appreciation http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Pournima-Dhume.pdf Other Proof http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-eContent-For-SWAYAM.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp5	
Jeanette Camilla Barbosa Noronha	Quadant 4: Online discussion forum of all modules of the 8 week MOOC offered from January 2024 to March 2024	SWAYAM	January 2024 to March 2024	https://onlinecourses.nptel.ac.in/noc24_ge12/course	Letter of Appreciation http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Jeanette-Barbosa.pdf Other Proof http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-eContent-For-SWAYAM.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp6	
Gomes, Natasha Maria	Teaching Associate for MOOC titled 'Designing Learner-Cenric MOOCS' developed by IIT Bombay and offered on SWAYAM from January 2023 to February 2023.	SWAYAM	January 2023 to February 2023.	https://onlinecourses.nptel.ac.in/noc23_ge02/preview	http://iqac.unigoa.ac.in/criterion3/22-23-3.4.7-4.3.5-NatashaGomes.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp7	
Silveira, Irene	Teaching Associate for MOOC titled 'Designing Learner-Cenric MOOCS' developed by IIT Bombay and offered on SWAYAM from January 2023 to February 2023.	SWAYAM	January 2023 to February 2023.	https://onlinecourses.nptel.ac.in/noc23_ge02/preview	http://iqac.unigoa.ac.in/criterion3/22-23-3.4.7-4.3.5-Irene-Silveira1.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp8	
Silveira, Irene	Quadant 4: Online discussion forum of all modules of the 8 week MOOC	SWAYAM	January 2021 to February 2021	https://onlinecourses.nptel.ac.in/noc21_ge11/preview	https://iqac.unigoa.ac.in/criterion3/3.4.6-Irene-Silveira.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp9	
Gomes, Natasha Maria	Teaching Associate for MOOC on Digital Transformation of Teaching Learning Process conducted by Prof. Sridhar Iyer, and Dr. Sameer Saharsrabudhe, IIT Bombay as part of the Operation Digital Board under the Technical Education Quality Improvement Program Phase III (TEQIP-III), Scheme of MHRD, Government of India.	SWAYAM	Januray 2020 to March 2020	https://online-degree.swayam2.ac.in/tqp20_c01_s4_ge01/course	https://iqac.unigoa.ac.in/criterion3/3.4.6-TEQIP_Natasha_Gomes.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp10	

2. Any other Government Initiatives								
Name of the teacher	**Name of the module developed**	**Platform on which module is developed**	**Date of launching e content**	**Link to the relevant document and facility available in the institution**	**Link to the Supporting documents from the sponsoring agency for the e-content developed by the teacher**	**List of the e-content development facility available**	**Provide link to videos of the media centre and recording facility**	
Dalvi, Shourya	OERs in French for students of XI standard (Goa Board)	DIKSHA, MoE, GoI	Content uploaded in a phase wise manner from 2020 to 2022	https://www.diksha.gov.in/play/collection/do_31307444766947737619538 https://diksha.gov.in/explore/1?selectedTab=all&se_boards=state%20(goa)&se_mediums=french&se_gradeLevels=class%209	http://iqac.unigoa.ac.in/criterion3/3.4.7-DIKSHA-ORDER.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Diksha_Certificate_Shourya.pdf	Work done remotely	
Gomes, Natasha Maria	OERs in French for students of XII standards (Goa Board), SCERT Content Curation Team French for DIKSHA- Vidhya Daan	DIKSHA, MoE, GoI	Content uploaded in a phase wise manner from 2020 to 2022	https://diksha.gov.in/play/collection/do_31307532618979737618923?contentType=TextBook	http://iqac.unigoa.ac.in/criterion3/3.4.7-DIKSHA-ORDER.pdf - http://iqac.unigoa.ac.in/criterion3/3.4.6-Natasha.jpg	http://iqac.unigoa.ac.in/criterion3/3.4.6-Gomes_Seed_Amount_Order.jpg	Work done remotely with equipment from seed money received by university	
Gomes, Natasha Maria	OERs in French for students of VIII standards (Goa Board), SCERT Content Curation Team French for DIKSHA- Vidhya Daan	DIKSHA, MoE, GoI	Content uploaded in a phase wise manner from 2020 to 2022	https://diksha.gov.in/explore/1?selectedTab=all&se_boards=state%20(goa)&se_mediums=french&se_gradeLevels=class%208	http://iqac.unigoa.ac.in/criterion3/3.4.7-Diksha-Curation-Order.pdf http://iqac.unigoa.ac.in/criterion3/3.4.6-Natasha1.jpg	http://iqac.unigoa.ac.in/criterion3/3.4.6-Gomes_Seed_Amount_Order.jpg	Work done remotely with equipment from seed money received by university	
Gomes, Anthony	OERs in French for students of VIII standards (Goa Board), SCERT Content Curation Team French for DIKSHA- Vidhya Daan	DIKSHA, MoE, GoI	Content uploaded in a phase wise manner from 2020 to 2022	https://diksha.gov.in/play/collection/do_31339521074924748812594?contentType=TextBook	http://iqac.unigoa.ac.in/criterion3/22-23-3.4.7-4.3.5-AnthonyGomes.pdf	Work done remotely	Work done remotely	
Gomes, Anthony	OERs in French for students of XII standards (Goa Board), SCERT Content Curation Team French for DIKSHA- Vidhya Daan	DIKSHA, MoE, GoI	Content uploaded in a phase wise manner from 2020 to 2022	https://diksha.gov.in/ga/play/collection/do_31307532618979737618923?contentType=TextBook	https://iqac.unigoa.ac.in/criterion3/3.4.6-Anthony.pdf	Work done remotely	Work done remotely	
Desai Shirodkar, Minal	Bee Products (ZOD 102)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-1.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in	
Desai Shirodkar, Minal	Bee keeping Equipment(ZOD 102)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-2.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in	
Desai Shirodkar, Minal	role of Bees in pollination (ZOD 102)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-3.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in	
Desai Shirodkar, Minal	Bee Management (ZOD 102)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-4.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in	
Desai Shirodkar, Minal	Nutrition for Pregnant Women (ZOG 101)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-5.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in	
Desai Shirodkar, Minal	Nutrition for Lactating Mother (ZOG 101)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-6.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in	

Desai Shirodkar, Minal	Nutrition for Infant (ZOG 101)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-7.pdf	Dishtavo	https://dishtavo.dhe.goa.gov.in/course_details_tab.php	
Desai Shirodkar, Minal	Nutrition for School Children (ZOG 101)	DISHTAVO	Feb-24	https://dishtavo.dhe.goa.gov.in	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Minal_Desai_Shirodkar_Certificate-8.pdf	Dishtavo	Dishtavo-Search Courses/ https://dishtavo.dhe.goa.gov.in/filter.php?degree=3	
Mapari, Dviti	MICROBIOLOGY AND BIOCHEMISTRY-I (MIC 101)	DISHTAVO	07.03.2024	DISHTAVO	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dishtavo-Dviti-Mapari.pdf	Dishtavo	Dishtavo-Search Courses/ https://dishtavo.dhe.goa.gov.in/filter.php?degree=4	
Mapari, Dviti	MICROBIOLOGY AND BIOCHEMISTRY-I (MIG 101)	DISHTAVO	07.03.2024	DISHTAVO	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dishtavo-Dviti-Mapari1.pdf	Dishtavo	Dishtavo-Search Courses/ https://dishtavo.dhe.goa.gov.in/filter.php?degree=5	
Mapari, Dviti	MICROBIOLOGY AND BIOCHEMISTRY-I (MIC 107),	DISHTAVO	07.03.2024	DISHTAVO	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dishtavo-Dviti-Mapari2.pdf	Dishtavo	Dishtavo-Search Courses/ https://dishtavo.dhe.goa.gov.in/filter.php?degree=6	
Kundaikar, Gandhita	Aquarium fish keeping- 4 Modules (ZOS101)	DISHTAVO	Dec-23	Dishtavo 2.0 / https://dishtavo.dhe.goa.gov.in/	http://iqac.unigoa.ac.in/criterion3/3.4.6-GANDHITA_KUNDAIKAR_Certificate.pdf	Dishtavo	Dishtavo-Search Courses/ https://dishtavo.dhe.goa.gov.in/filter.php?degree=7	
Kshama D. Dharwadkar	Histoire Générale de la Traductologie- Block 1-Units 1,2,3,4 and Block 2- Units 1, 2,4	For other Government Initiatives (E-gyankosh)	Yet to be launched on e-gyankosh (ISBN number received) - Course Printed in June 2023	http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7157/Intro_traductologie_2023_67-82.pdf?sequence=1&isAllowed=y http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7158/Intro_traductologie_2023_83-97.pdf?sequence=1&isAllowed=y http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7154/Intro_traductologie_2023_20-	http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7157/Intro_traductologie_2023_67-82.pdf?sequence=1&isAllowed=y http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7158/Intro_traductologie_2023_83-97.pdf?sequence=1&isAllowed=y http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7158/Intro_traductologie_2023_83-97.pdf?sequence=1&isAllowed=y http://irgu.unigoa.ac.in/drs/bitstream/handle/unigoa/7154/Intro_tradu	e-gyankosh		
Gomes, Natasha Maria	Development of the TPCI Level - 2 modules (Module on Open Educational Resources and FOSS) Review of Techno-pedagogy Content Integration Package	For other Government Initiatives DIKSHA/CIET-NCERT repository (2023-2024)	Yet to be launched (Session held 4-9th March 2024)	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes-2.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-HONORARIUM_RECEIPT_Gomes_Feb_2024.pdf	work was done at CIET office in Delhi		
Gomes, Natasha Maria	Develop MOOCs on 'Development of Online Courses	For other Government Initiatives DIKSHA/CIET-NCERT repository (2023-2024)	Yet to be launched (Session held 24-25th January 2024)	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes-3.pdf http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes-4.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Natasha-Gomes-3.pdf	work was done at CIET office in Delhi		
Irene Silveira	Develop MOOCs on 'Development of Online Courses	For other Government Initiatives DIKSHA/CIET-NCERT repository (2023-2024)	Yet to be launched (3-6th October 2023)	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Irene-Silveira.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-Irene-Silveira.pdf	work was done at CIET office in Delhi		
Gomes, Natasha Maria	Developing Training Package on Development of Online Course	For other Government Initiatives DIKSHA/CIET-NCERT repository (2023-2024)	Yet to be launched	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Natasha-Gomes.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Dr._Natasha-Gomes.pdf	work was done at CIET office in Delhi		

Gomes, Natasha Maria	Developing Training Package on Development of Online Course	For other Government Initiatives DIKSHA/CIET-NCERT repository (2022-2023)	Yet to be launched (20th-24th February 2023)	http://iqac.unigoa.ac.in/criterion3/22-23-3.4.7-4.3.5-1Natasha-Gomes.pdf	http://iqac.unigoa.ac.in/criterion3/22-23-3.4.7-4.3.5-1Natasha-Gomes.pdf	work was done at CIET office in Delhi		
Silveira, Irene	Developing Training Package on Development of Online Course	For other Government Initiatives DIKSHA/CIET-NCERT repository (2022-2023)	Yet to be launched (Session 4th-8th December 2023)	http://iqac.unigoa.ac.in/criterion3/3.4.6-Silveir_Irene_CIET.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Honorarium_Irene.pdf	work was done at CIET office in Delhi		
Gomes, Natasha Maria	Development of Online Course	For other Government Initiatives DIKSHA/CIET-NCERT repository (2022-2023)	Yet to be launched (Session - 27th February- 3rd March 2023)	http://iqac.unigoa.ac.in/criterion3/3.4.6-Natasha_Gomes_CIET.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Gomes_honourarium.pdf	work was done at CIET office in Delhi		
Gomes, Natasha Maria	Teaching Associate for NPTEL's Blended Online Workshop, on Transition to Online Facilitation, conducted by Dr. Jayakrishnan M	For other Government Initiatives NPTEL	May to June 2020	http://iqac.unigoa.ac.in/criterion3/3.4.6-Natasha_Maria_Gomes.png	http://iqac.unigoa.ac.in/criterion3/3.4.6-Natasha_Maria_Gomes.png	work was done at CIET office in Delhi		
3. For other MOOCs platforms								
Name of the teacher	**Name of the module developed**	**Platform on which module is developed**	**Date of launching e content**	**Link to the relevant document and facility available in the institution**	**Link to the Supporting documents from the sponsoring agency for the e-content developed by the teacher**	**List of the e-content development facility available**	**Provide link to videos of the media centre and recording facility**	
Gomes, Natasha Maria	30-hour MOOC titled 'Building Bridges: Foundations of Intercultural Communication'.	Canvas. For other MOOCs platform Open Education for a Better World (OE4BW)	June 2024 to July 2024	https://oe4bw.miteam.si/asset/u2afkgKxeR2qng5rW http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24_eContent_Other-MOOC-platforms_Gomes.pdf http://iqac.unigoa.ac.in/criterion3/3.4.6-Confirmation_letter_Natasha_Gomes_2024.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24_eContent_Other-MOOC-platforms_Gomes.pdf http://iqac.unigoa.ac.in/criterion3/3.4.6-Confirmation_letter_Natasha_Gomes_2024.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Gomes_Seed_Amount_Order.jpg	Workdone remotely with equipment from seed money received by Goa university	
Dias, Elaine T.	PHSO316 Magnetism in Condensed matter Physics	Igesia	16-11-2020	https://my.igesia.co/528809	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	
Priolkar, Kaustubh R.	PHO304 X-ray Spectroscopy	Igesia	21 Jaunary 2021	https://my.igesia.co/598419	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	
Sequiera, Marlon	ELC 401 LASER SYSTEM ENGINEERING	Igesia	01-01-2021	https://console.igesia.co/548377	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	

4. For Institutional LMS								
Name of the teacher	**Name of the module developed**	**Platform on which module is developed**	**Date of launching e content**	**Link to the relevant document and facility available in the institution**	**Link to the Supporting documents from the sponsoring agency for the e-content developed by the teacher**	**List of the e-content development facility available**	**Provide link to videos of the media centre and recording facility**	**Institutional LMS- Summary of e-content**
Alavani, Bhargav K.	Documentation using Latex	Goa University LMS (Moodle)	13-08-24	Documentation using Latex (unigoa.ac.in)	https://youtube.com/playlist?list=PLJHLldjZOUD_qnlaQIOTSXa8oH1UZuPg3&feature=shared	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	Course is designed to introduce participants to the powerful typesetting system of LaTeX, widely used for producing professional documents in academia. The course covers the basics of LaTeX syntax, document structure, and formatting. This will enable participants to create well-organized and visually appealing articles, reports, and presentations"
Dr. Shanti N. Dessai	ZOC 104 : Molecular Biology (Three modules)	Goa University Moodle (LAMS)	10-09-2020	http://moodle.unigoa.ac.in/course/view.php?id=43	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-ZOC-129-MOLECULAR-BIOLOGY.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOC 104: Molecular Biology on the Goa University Moodle (LAMS) in September 2020. The course comprises three comprehensive modules covering topics such as DNA structure, replication, transcription, translation, gene regulation, and molecular techniques. The e-content includes lecture handouts, videos, assignments, and practical activities to enhance learning and understanding of molecular biology concepts. This
Dr. Shanti N. Dessai	ZOO 303 Biology of reproduction (Two Modules)	Goa University Moodle (LAMS)	10-09-2020	http://moodle.unigoa.ac.in/course/view.php?id=20	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-ZOO-303-BIOLOGY-OF-REPRODUCTION.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 303: Biology of Reproduction on the Goa University Moodle (LAMS) in September 2020. The course comprises two comprehensive modules covering topics such as spermatogenesis, endocrine regulation, fertilization, and reproductive physiology in animals. The e-content includes lecture handouts, videos, e-books, assignments, and reference materials to facilitate in-depth understanding and practical skills.
Cherukulappurath, Sudhir	Nanoscience and Technology	Google Classroom	01-11-2021	https://classroom.google.com/u/0/c/MjUxOTQ3Mjg4NTMx	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	This course explores the fundamental principles and applications of nanomaterials, nanofabrication techniques, and nanoscale characterization methods. It covers topics such as quantum confinement, surface effects, and self-assembly in nanostructures. Advanced techniques like scanning electron microscopy (SEM), atomic force microscopy (AFM), and X-ray diffraction (XRD) are introduced for material analysis. The course also discusses the interdisciplinary applications of

Gad, R S.	ELC 101: MICROELECTRONICS AND VLSI DESIGN	Google Classroom	09-20	https://classroom.google.com/c/NjczNzc4NDExMjBa	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	This module covers fundamental concepts of microelectronics and the principles of Very Large Scale Integration (VLSI) design. It includes topics such as semiconductor physics, MOSFET characteristics, digital logic design, fabrication techniques, and VLSI architectures. The content provides theoretical understanding along with practical applications in modern electronic circuits and chip design.
Gad, R S.	ELO 202: OPERATING SYSTEM AND RTOS	Google Classroom	09-20	https://classroom.google.com/c/MjcwNTMyMTkwNjI2	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	This module introduces operating system concepts, including process management, memory management, file systems, and I/O handling. It also covers Real-Time Operating Systems (RTOS), focusing on task scheduling, synchronization, and real-time constraints essential for embedded systems. The content includes case studies on Linux, Windows, and RTOS like FreeRTOS.
Gad, R S. And Vetreker, Narayan	ELC 102: ELECTRONICS PRACTICALS – I	Google Classroom	09-20	https://classroom.google.com/c/MTM5OTY4MTQ2NjE5	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	This practical module is designed to reinforce basic electronics concepts through hands-on experiments. It includes circuit design, testing of diodes and transistors, operational amplifier applications, digital logic circuits, and basic microcontroller programming. The content includes step-by-step lab instructions and experimental analysis.
Gaude, Pallavi	Quantum Mechanics II	Google Classroom	09-09-2020	https://classroom.google.com/c/MTIxNzQzNjI1MzE5	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	This course explores advanced quantum mechanics topics such as perturbation theory, scattering theory, identical particles, and relativistic quantum mechanics. It also covers quantum field theory basics, the Dirac equation, and applications in atomic and condensed matter physics.
Gaude, Pallavi	Quantum Mechanics	Google Classroom	22-01-2021	https://classroom.google.com/c/MjU5NDA2ODQwNDY3	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	Covers the fundamental principles of quantum theory, including wave-particle duality, Schrödinger's equation, and quantum operators. The course introduces the postulates of quantum mechanics, angular momentum, spin, and applications in atomic and molecular systems.
Hathwar, Venkatesha R.	Mathematical Physics (PHGC-101)	Google classroom	11 Sep 20	https://classroom.google.com/c/MTU1MDkwODY2Nzkw	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	Introduces essential mathematical techniques required for physics, including complex analysis, differential equations, vector calculus, and Fourier transforms. The course emphasizes problem-solving skills and their applications in classical and quantum physics.

Hathwar, Venkatesha R.	Crystallography and XRD	Google classroom	29 Jan 21	https://classroom.google.com/c/MjYxMDQzNDgwOTc2	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	Focuses on crystal structures, symmetry, and lattice dynamics, along with the principles and applications of X-ray diffraction (XRD) techniques. It covers Bragg's law, powder diffraction methods, and the determination of crystal structures using modern instrumentation.
Hyam, Rajeshkumar Shankar	Physics of Energy Materials PHO313	Google classroom	01-21	https://classroom.google.com/c/Mjc3Nzc4MDgzMzcz?cjc=rctcstc https://my.igesia.co/271174	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://classroom.google.com/c/Mjc3Nzc4MDgzMzcz?cjc=rctcstc	Examines the properties and applications of materials used in energy storage and conversion, such as photovoltaics, fuel cells, and thermoelectric materials. The course also discusses advanced characterization techniques and emerging trends in energy materials research.
Naik, Pranav P.	BRIDGE COURSE IN MATHEMATICS (PHGC 101)	GOOGLE CLASSROOM	09-09-2020	https://classroom.google.com/c/MTYwMTcxNzMyNjgw	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Designed to strengthen mathematical foundations for physics students, covering topics like calculus, differential equations, vector analysis, and linear algebra. The course aims to provide the necessary mathematical tools required for higher studies in theoretical and applied physics.
Naik, Pranav P.	ELECTRONICS (PHGC 107)	GOOGLE CLASSROOM	16-11-2020	https://classroom.google.com/c/MTU4NDI1MzkyMTIz	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Covers fundamental concepts of analog and digital electronics, including semiconductor devices, operational amplifiers, transistors, and logic circuits. The course also explores signal processing, microcontrollers, and their applications in modern technology.
Pahari, Bholanath	Nuclear & Elementary Particle Physics	Google classroom	17/08/2020	https://classroom.google.com/c/MzY3NzE4ODc5OTMy	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Explores nuclear structure, decay processes, nuclear reactions, and fundamental forces governing elementary particles. Topics include the Standard Model, particle accelerators, neutrino physics, and applications in nuclear energy and medical imaging.
Palni, Prabhakar	Statistical Mechanics	Google Classroom	24-11-2020	https://classroom.google.com/c/MjM2MTYzMzczMDQ5?cjc=4phykjv	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Develops concepts of thermodynamics and statistical ensembles to describe macroscopic systems based on microscopic principles. The course covers classical and quantum statistics, phase transitions, and applications in condensed matter physics and cosmology.
Palni, Prabhakar	Computer Programming in Fortran	Google Classroom	20-1-2021	https://classroom.google.com/c/MjU3Mzc4ODMwMTc1?cjc=sox6yhz	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Introduces Fortran programming with a focus on numerical methods, scientific computing, and data analysis. The course includes hands-on coding exercises for solving physics problems such as differential equations, matrix operations, and Monte Carlo simulations.

Priolkar, Kaustubh R.	PHO213 Solid State Physics	Google Classroom	September 2, 2020	https://classroom.google.com/u/1/c/ODg0MzMwNjk3OTha	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Covers the fundamental principles of solid-state physics, including crystal structures, lattice vibrations, and electronic band theory. The course explores the electrical, optical, and magnetic properties of materials, with applications in semiconductors, superconductors, and nanotechnology. It also introduces experimental techniques used to study solid-state materials, such as X-ray diffraction and electron microscopy.
Sequiera, Marlon	ELO 181: Numerical Methods And Simulation Techniques for Scientists and Engineers	Google Classroom	09-20	https://classroom.google.com/c/MTU4NDI5NTg1NzEw?cjc=vzglgrm	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Focuses on the application of numerical methods for solving complex scientific and engineering problems. Topics include root-finding algorithms, differential equations, Monte Carlo methods, and finite element analysis. The course integrates computational simulations using programming tools such as MATLAB, Python, or Fortran, with real-world applications in physics, engineering, and data science.
Sequiera, Marlon	ELO 303 DIGITAL SYSTEM DESIGN USING HDL	Google Classroom	09-20	https://classroom.google.com/c/MTU4NDIxNDE3NzAx?cjc=jxurcf2	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course focuses on the design and implementation of digital systems using Hardware Description Languages (HDL) such as VHDL and Verilog. It covers combinational and sequential circuit design, finite state machines (FSMs), and FPGA-based implementations. Students gain hands-on experience in simulation, synthesis, and verification of digital circuits using industry-standard tools, preparing them for real-world hardware design applications in embedded systems and VLSI
Sequiera, Marlon and Parab, Jivan	ELC 302 ELECTRONICS PRACTICALS - III	Google Classroom	09-20	https://classroom.google.com/c/MTU4NDIwMjg4NDE2?cjc=dczrcqo	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course provides hands-on experience with advanced analog and digital electronics experiments. Topics include operational amplifier applications, waveform generation, filters, and signal processing techniques. Students also work with microcontrollers, sensors, and communication circuits to develop real-world electronics applications.
Sequiera, Marlon and Parab, Jivan	ELC 402 ELECTRONICS PRACTICALS - IV	Google Classroom	09-20	https://classroom.google.com/c/MjQ2MDQ4MzQ5NDYz?cjc=ky6eqs5	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Focuses on embedded systems, digital signal processing (DSP), and advanced communication circuits. Experiments include microprocessor programming, interfacing peripherals, and implementing IoT-based projects. The course emphasizes practical implementation, troubleshooting, and testing of complex electronic systems for industrial and research applications.

Dessai, Reshma Raut	Bridge Course in Mathematical methods	Google Classroom (Institutional LMS)	26-10-2020	https://classroom.google.com/c/MTkwNjYyOTEwMzk2	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Designed to strengthen the mathematical foundation for physics students, this course covers essential topics such as linear algebra, differential equations, vector calculus, and complex analysis. The e-content includes video lectures, step-by-step problem-solving approaches, and interactive exercises to enhance conceptual clarity.
Hyam, Rajeshkumar Shankar	Electrodynamics (EM Theory PHGC103)	Google Classroom and Igesia Platoform for Goa University, M.Sc. First year Students	09-20	https://classroom.google.com/c/MTE2OTE5MzcwNDIz?cjc=ur55vx3 https://classroom.google.com/c/MTU4MDU2NDU4MDQ2?cjc=bas67gx	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course explores the principles of electromagnetism, including Maxwell's equations, electromagnetic waves, and radiation. The e-content includes derivations, numerical problem-solving sessions, and visualizations of field interactions to aid student comprehension. Special focus is given to real-world applications of electromagnetic theory.
Cherukulappurath, Sudhir	Bridge Course in Optics	Institutional LMS	January 2024	Optics (unigoa.ac.in)	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The e-content introduces fundamental concepts of geometric and wave optics, covering topics such as interference, diffraction, and polarization. It includes practical demonstrations, simulations, and conceptual discussions to bridge the knowledge gap and prepare students for advanced optical physics.
Pai, R. V	Bridge Course in Quantum Mechanics	Institutional LMS	January 2024	QM (unigoa.ac.in)	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course is designed as an introductory bridge to quantum mechanics, covering fundamental concepts such as wave-particle duality, quantum states, and operators. It serves as a preparatory module for students transitioning from classical to quantum physics, helping them build a strong conceptual foundation.
Priolkar, K. R.	General Physics practical theory lectures	Institutional LMS	January 2024	http://moodle.unigoa.ac.in/course/admin.php?courseid=118	http://iqac.unigoa.ac.in/criterion3/3.4.6-Inst_LMS_Google_Classroom_Bill.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This module covers theoretical aspects of practical physics experiments. It includes discussions on measurement techniques, error analysis, fundamental laws of physics, and the principles behind various laboratory experiments. The aim is to enhance students' understanding of experimental procedures and data interpretation.

Dr. Shanti N. Dessai	ZOC 104: Cell and Molecular Biology (Three Modules)	Institutional LMS (Goa University CourseWare)	24-06-2019	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-ZOC-104-Cell-and-Molecular-Biology.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOC 104: Cell and Molecular Biology on the Goa University LMS (CourseWare) on 24-06-2019. The course comprises three comprehensive modules covering essential topics in cell and molecular biology, such as cellular structure, molecular mechanisms, and genetic regulation. The e-content includes lecture handouts, web resources, animations, and practical activities to facilitate self-paced learning. This digital resource
Dr. Shanti N. Dessai	ZOO 406: Immunology (Two Modules)	Institutional LMS (Goa University CourseWare)	03-01-2020	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-1.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 406: Immunology on the Goa University LMS (CourseWare) on 03-01-2020. The course comprises two comprehensive modules covering key topics in immunology such as innate and adaptive immunity, cytokines, antigen-antibody interactions, and immune responses to various pathogens. The e-content includes lecture handouts, videos, and practical resources to enhance student learning. This digital resource was accessible at
Dr. Shanti N. Dessai	ZOO 301: Animal Tissue Culture (Two Modules)	Institutional LMS (Goa University CourseWare)	02-07-2019	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-ZOO-406-IMMUNOLOGY.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 301: Animal Tissue Culture on the Goa University LMS (CourseWare) on 02-07-2019. The course comprises two comprehensive modules covering key topics such as cell culture media, growth of animal cells, and applications of stem cells. The e-content includes lecture handouts, practical manuals, and group activities to facilitate experiential learning. This digital resource was accessible at
Dessai, Shanti N	ZOO 600 Neurophysiology (Theory)	Institutional LMS (Moodle)	Nov-23	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-1.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 600: Neurophysiology on the Goa University LMS (Moodle) in November 2023. The course comprises three modules covering key topics such as neuronal classification, synaptic transmission, neurotransmitters, and neurophysiology of balance and memory. The e-content includes lecture handouts, videos, animations, and practical exercises to facilitate comprehensive learning. This resource

Dessai, Shanti N	ZOO 621 Immunology	Institutional LMS (Moodle)	Nov-23	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-2.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 621: Immunology on the Goa University LMS (Moodle) in November 2023. The course comprises two comprehensive modules covering key topics such as innate and adaptive immunity, cytokines, antigen-antibody interactions, and immune responses to various pathogens. The e-content includes lecture handouts, video lectures, animations, and practical exercises to enhance learning and
Dessai, Shanti N	Shanti's NET/SET Mentoring	Institutional LMS (Moodle)	Jun-23	http://iqac.unigoa.ac.in/criterion3/3.4.7-23-24-3.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for Shanti's NET/SET Mentoring on the Goa University LMS (Moodle) in June 2023. The course includes modules on exam strategies, time management, important topics, and practice sessions for CSIR-NET, UGC-NET, and SET exams. The e-content comprises lecture notes, video resources, mock tests, and tips for effective preparation to help students excel in competitive exams. This resource was accessible at http://moodle.unigoa.ac.in earlier but
Dessai, Shanti N.	ZOC 129: MOLECULAR BIOLOGY	Institutional LMS (Moodle)	Jun-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOC 129: Molecular Biology on the Goa University LMS (Moodle) in June 2021. The course comprises multiple modules covering essential topics such as DNA structure, replication, transcription, translation, and genetic regulation mechanisms. The e-content includes lecture handouts, videos, animations, and interactive activities to support comprehensive learning. This resource was accessible at http://moodle.unigoa.ac.in/login/index
Dessai, Shanti N.	ZOO 321: NEUROPHYSIOLOGY (CLUSTER B: LIFE PROCESSES)	Institutional LMS (Moodle)	Nov-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 321: Neurophysiology (Cluster B: Life Processes) on the Goa University LMS (Moodle) in November 2021. The course comprises three comprehensive modules covering topics such as neuronal classification, synaptic transmission, learning and memory, and sensory systems. The e-content includes lecture handouts, videos, practical manuals, and reference materials to facilitate in-depth

Dessai, Shanti N.	ZOO 339 Advanced Cell Biology	Institutional LMS (Moodle)	Nov-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 339: Advanced Cell Biology on the Goa University LMS (Moodle) in November 2021. The course comprises multiple modules covering advanced topics such as cell signaling, membrane dynamics, protein transport, lysosomal function, and cell death mechanisms. The e-content includes lecture handouts, videos, practical manuals, and recommended references to facilitate comprehensive learning. This resource was accessible
Dessai, Shanti N.	ZOO 436 IMMUNOLOGY	Institutional LMS (Moodle)	Nov-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 436: Immunology on the Goa University LMS (Moodle) in November 2021. The course comprises multiple modules covering essential topics such as immune cells, antigen presentation, cytokines, hypersensitivity reactions, and autoimmune disorders. The e-content includes lecture handouts, videos, practical manuals, and reference materials to enhance conceptual understanding and practical skills.
Shaikh, Shamshad Bi	CLUSTER B- ZOO-330 Environmental Physiology	Institutional LMS (Moodle)	Nov-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Environmental Physiology explores how animals adapt to their surroundings, including responses to temperature, pressure, salinity, and oxygen availability. The course covers physiological mechanisms like thermoregulation, osmoregulation, and stress adaptation, emphasizing their significance in ecological and evolutionary contexts.
Shaikh, Shamshad Bi	Cluster B ZOO 332 Stem Cell Biology	Institutional LMS (Moodle)	Nov-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Stem Cell Biology delves into the fundamental properties, types, and potential applications of stem cells. Topics include embryonic and adult stem cells, mechanisms of differentiation, and regenerative medicine. The course highlights recent advancements in stem cell therapy and ethical considerations in research.
Kundaikar, Gandhita	Aquaculture (Cluster A)	Institutional LMS (Moodle)	Nov-21	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	Goa University Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The Aquaculture course provides insights into sustainable fish farming practices, species selection, breeding techniques, and disease management. It highlights innovations in aquaculture technology, economic opportunities, and environmental considerations for sustainable seafood production.

Pai. R. V.	Bridge Course in Quantum Mechanics	Institutional LMS (Moodle/ UNIGOA Pathshala)	January 2024	QM (unigoa.ac.in)	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course introduces key principles of quantum mechanics, such as wave-particle duality, quantum states, and Schrödinger's equation. It aims to bridge the gap between classical and quantum physics by strengthening the mathematical and conceptual foundations necessary for further studies in the subject.
Priolkar, K. R	General Physics practical theory lectures	Institutional LMS (Moodle/ UNIGOA Pathshala)	January 2024	http://moodle.unigoa.ac.in/course/admin.php?courseid=118	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This module focuses on the theoretical background of physics experiments. It covers topics like measurement techniques, error analysis, and fundamental physical principles, helping students develop a deeper understanding of the scientific methods applied in laboratory work.
Hyam, Rajeshkumar	Bridge Course in Mathematical Physics	Institutional LMS (Moodle/ UNIGOA Pathshala)	July 2024	BRIDGE COURSE IN MATHEMATICAL PHYSICS (unigoa.ac.in)	http://iqac.unigoa.ac.in/criterion3/3.4.6-Institutional_LMS_MoodleIgesia.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course provides essential mathematical tools required for physics, including differential equations, vector calculus, Fourier series, and linear algebra. It is designed to equip students with the necessary skills to tackle complex problems in theoretical and applied physics.
Dessai, Shanti N.	Lab course II Based Comparative animal physiology	Institutional LMS GU Classroom	Jun-21	https://classroom.google.com/c/Mzg1MDAzNDkyODk0	Dessai, Shanti N. pdf	https://classroom.google.com/c/Mzg1MDAzNDkyODk0	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course Lab Course II Based Comparative Animal Physiology on the Goa University Google Classroom LMS in July 2022. The course comprises practical modules covering topics such as ECG evaluation, human lung volumes and capacities, muscular fatigue measurement, and respirometry. The e-content includes videos, experimental protocols, and instructional materials to enhance hands-on learning and practical skills. This resource was
Dessai, Shanti N.	ZOC 129 MOLECULAR BIOLOGY THEORY	Institutional LMS GU Classroom	Jun-21	https://classroom.google.com/c/MzgzNzEzMjU0MDMw	Dessai, Shanti N. pdf	https://classroom.google.com/c/MzgzNzEzMjU0MDMw	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOC 129: Molecular Biology Theory on the Goa University Google Classroom LMS in June 2021. The course comprises multiple modules covering topics such as DNA replication, transcription, translation, gene regulation, and molecular techniques. The e-content includes lecture handouts, videos, YouTube references, and practice exercises to enhance conceptual understanding and practical skills. This resource was

Dessai, Shanti N.	Shanti's NET/SET Mentoring class CSIR-UGC NET	Institutional LMS GU Classroom	Nov-21	https://classroom.google.com/c/NDA1MzM4NDA3MTM0	Dessai, Shanti N. pdf	https://classroom.google.com/c/NDA1MzM4NDA3MTM0	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for Shanti's NET/SET Mentoring Class for CSIR-UGC NET on the Goa University Google Classroom/Moodle LMS in November 2021. The course includes modules on Molecular Biology, Evolution, Environmental Science, Developmental Biology, and practice MCQs for CSIR-NET and UGC-NET exams. The e-content comprises lecture handouts, videos, MCQ tests, and mock exams to facilitate effective preparation. This resource was
Shaikh, Shamshad Bi	ZOO 433-Biological Techniques	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO433.pdf	Shaikh, Shamshad Bi pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This Moodle course encompasses a wide range of biological techniques essential for scientific experimentation, including electrophoresis, spectrophotometry, chromatography, and microscopy. The course aims to familiarize students with the working principles, methodologies, and applications of these techniques. By understanding these tools, students will be better equipped to incorporate them into their future research projects, academic papers, and experiments.
Shaikh, Shamshad Bi	ZOC 226-Comparative Anatomy of Vertebrates	Institutional LMS GU Classroom	Jun-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-226.pdf	Shaikh, Shamshad Bi. Pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course is designed to provide students with a solid understanding of the fundamental anatomical principles of vertebrates. It focuses on how anatomical structures have evolved and adapted over time to suit different environments, habits, and ecological niches. By exploring these evolutionary changes, students will gain a clear insight into the basic vertebrate structures and how they vary across species based on their habitats and behaviors. This knowledge will help students
Shaikh, Shamshad Bi	ZOO 427-Endocrinology	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-427.pdf	Shaikh, Shamshad Bi. pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course delves into the field of endocrinology, where students will explore the complex network of hormones, glands, and organs that regulate various physiological processes. The course covers the nature and mechanisms of hormone actions, as well as the role of hormone receptors. By studying these intricate systems, students will develop a deeper understanding of how hormones function at a molecular level, enhancing their overall comprehension of the body's
D'Costa, Avelyno	ZOC 128: Animal Biochemistry (2021-2022)	Institutional LMS GU Classroom	Jun-21	http://moodle.unigoa.ac.in/login/index.php	D'Costa, Avelyno. Pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The e-content covers fundamental biochemical processes in animals, including metabolism, enzyme kinetics, biomolecules, and bioenergetics. Interactive modules, video lectures, and quizzes help students understand key metabolic pathways and their physiological significance.

D'Costa, Avelyno	ZOC 126: Principles of Animal Systematics (2021-2022)	Institutional LMS GU Classroom	Jun-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOC-126.pdf	D'Costa, Avelyno. Pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course explores the classification, nomenclature, and evolutionary relationships of animals. The e-content includes detailed explanations of taxonomic principles, phylogenetics, and modern classification techniques, supported by diagrams and case studies for better comprehension.
D'Costa, Avelyno	ZOO 303: Fish Processing (2021-2022)	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-303.pdf	D'Costa, Avelyno. pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The e-content provides insights into post-harvest handling, preservation techniques, value-added products, and quality control in fish processing. It includes demonstrations on fish preservation methods, regulatory standards, and emerging trends in the industry.
D'Costa, Avelyno	ZOO 437: Nutritional Biochemistry (2021-2022)	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-437.pdf	D'Costa, Avelyno. pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course focuses on the biochemical aspects of nutrition, including macronutrient metabolism, vitamins, and minerals. The e-content comprises interactive lessons, metabolic pathway analyses, and case studies on nutrition-related disorders.
D'Costa, Avelyno	ZOO 338: Toxicology (2021-2022	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-338.pdf	D'Costa, Avelyno.pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The e-content explores the principles of toxicology, including types of toxins, their mechanisms of action, and detoxification processes. Case studies on environmental pollutants, toxic effects on organisms, and risk assessment strategies are incorporated for practical understanding.
Kundaikar, Gandhita	ZOC 228- Advanced Developmental Biology	Institutional LMS GU Classroom	Jun-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOC-228.pdf	Kundaikar, Gandhita.pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course integrates classical developmental biology with modern molecular insights, emphasizing its applications in medicine, biotechnology, and evolutionary studies. Let me know if you need a more detailed breakdown of specific topics!
Kundaikar, Gandhita	Aquaculture (Cluster)	Institutional LMS GU Classroom	Nov-21	http://moodle.unigoa.ac.in/login/index.php	Kundaikar, Gandhita.pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The e-content covers various aspects of aquaculture, including species selection, breeding techniques, water quality management, and sustainable practices. It provides insights into modern aquaculture technologies, entrepreneurship opportunities, and challenges in the field. Practical demonstrations and virtual simulations enhance the learning experience.

Kundaikar, Gandhita	Endocrinology	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-Aquaculture-cluster.pdf	Kundaikar, Gandhita.pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	This course delves into the hormonal regulation of physiological processes across different organisms. The e-content includes detailed modules on endocrine glands, hormone synthesis, mechanisms of action, and disorders. Interactive quizzes and real-life case studies help reinforce key concepts.
Kundaikar, Gandhita	Vector Biology	Institutional LMS GU Classroom	Nov-21	https://iqac.unigoa.ac.in/criterion3/3.4.7-Vector-Biology.pdf	Kundaikar, Gandhita.pdf	GU Google Classroom/Moodle	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	The e-content focuses on the biology, ecology, and control of vectors responsible for disease transmission. It includes detailed insights into vector-pathogen interactions, surveillance techniques, and integrated vector management strategies. Multimedia resources, including animations and infographics, enhance engagement and comprehension.
Dessai, Shanti N	Shanti's NET/SET Mentoring class CSIR-UGC NET	Institutional LMS: Goa University Moodle	Jul-22	https://iqac.unigoa.ac.in/criterion3/3.4.7-NET-SET-Mentoring-Class.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.7-NET-SET-Mentoring-Class.pdf	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for Shanti's NET/SET Mentoring Class for CSIR-UGC NET on the Goa University LMS (Moodle) in July 2022. The course includes modules on exam strategies, important topics, practice tests, and time management tips for CSIR-NET, UGC-NET, and SET exams. The e-content comprises lecture handouts, videos, practice questions, and strategy guides to assist students in effective preparation. This resource was accessible at
Dessai, Shanti N	ZOO 331: NEUROPHYSIOLOGY (CLUSTER B: LIFE PROCESSES)	Institutional LMS: Goa University Moodle	Jul-22	https://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-331.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.7-ZOO-331.pdf	http://moodle.unigoa.ac.in/login/index.php	http://iqac.unigoa.ac.in/criterion3/3.4.6-Lecture-Capturing-Setup-DDLI-GOA-UNIVERSITY.mp4	Dr. Shanti N. Dessai developed and uploaded e-content for the course ZOO 331: Neurophysiology (Cluster B: Life Processes) on the Goa University LMS (Moodle) in July 2022. The course comprises three comprehensive modules covering topics such as neuronal classification, synaptic transmission, electrophysiology, learning and memory mechanisms, and sensory systems. The e-content includes lecture handouts, videos, practical manuals, and reference books to

5. For e-PG-Pathshala UNIGOA PATHSHALA								
Name of the teacher	**Name of the module developed**	**Platform on which module is developed**	**Date of launching e content**	**Link to the relevant document and facility available in the institution**	**Link to the Supporting documents from the sponsoring agency for the e-content developed by the teacher**	**List of the e-content development facility available**	**Provide link to videos of the media centre and recording facility**	
Tripathi, Rahul	Introduction to the Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=erdF-FmkfAk	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp4	
Tripathi, Rahul	Indian Elections and Election Commission of India - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=Myq8aWE7VQ4	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp5	
Tripathi, Rahul	Democracy and Elections: Linkages and Challenges - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=zcIZ0xao2NI	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp6	
Tripathi, Rahul	Indian Elections and Election Commission of India - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=Myq8aWE7VQ4&t=2s	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp7	
Tripathi, Rahul	Election Commission of India - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=Wjr4hGRWyGw	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp8	
Tripathi, Rahul	District Election Officer - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=vW9qk0kQ1ws	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp9	
Tripathi, Rahul	Democracy: Concept and Significance - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=gxn9kW2lgIw	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp10	
Tripathi, Rahul	Process of Mock Poll - Course on Democracy and Electoral Management	GU Pathshala/ Goa University YoutubeChannel	22-Nov-2021	https://www.youtube.com/watch?v=wt5uY1rth1U	http://iqac.unigoa.ac.in/criterion3/3.4.6-Course-Bill-Democracy-Electin-Mngt.pdf	http://iqac.unigoa.ac.in/criterion3/3.4.6-List_E-Content-Development-Facilities.pdf	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp11	
Fernandes, Carlos	Research and publication ethics course	GU eContent	Jan-24	https://www.youtube.com/watch?v=9VH4YnQy3Dk&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=25	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp12	
Mhamal, Milind	Research and publication ethics course	GU eContent	Jan-25	https://www.youtube.com/watch?v=ahC1jQi8Uqs&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=26	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp13	
Pereira, Shamin	Research and publication ethics course	GU eContent	Jan-26	https://www.youtube.com/watch?v=ubg85UxPWQ&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=20	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp14	
Pereira, Shamin	Research and publication ethics course	GU eContent	Jan-27	https://www.youtube.com/watch?v=VPHRFzRF7Rw&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=21	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp15	
Pereira, Shamin	Research and publication ethics course	GU eContent	Jan-28	https://www.youtube.com/watch?v=KW3zpjdq-XM&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=22	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp16	
Pereira, Shamin	Research and publication ethics course	GU eContent	Jan-29	https://www.youtube.com/watch?v=rPkwXYsN0bQ&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=23	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp17	
Pereira, Shamin	Research and publication ethics course	GU eContent	Jan-30	https://www.youtube.com/watch?v=8rCSg1N-yfw&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=24	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp18	

Volvaikar, Novelty	Research and publication ethics course	GU eContent	Jan-31	https://www.youtube.com/watch?v=trSXYU5hx1E&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=27	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp19	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-1	https://www.youtube.com/watch?v=UHcRYsCrJE0&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=28	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp20	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-2	https://www.youtube.com/watch?v=Jw46UnBtaUw&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=29	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp21	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-3	https://www.youtube.com/watch?v=bHZyThicffY&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=30	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp22	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-4	https://www.youtube.com/watch?v=8t8Tfb9vNyE&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=31	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp23	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-5	https://www.youtube.com/watch?v=TwUEVnBIdv8&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=32	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp24	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-6	https://www.youtube.com/watch?v=794v2d0yk2A&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=33	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp25	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-7	https://www.youtube.com/watch?v=i-3UDTtULXg&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=34	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp26	
Volvaikar, Novelty	Research and publication ethics course	GU eContent	Feb-8	https://www.youtube.com/watch?v=YAV7UuGzFgw&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=35	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp27	
Parab, Rohan	Research and publication ethics course	GU eContent	Feb-9	https://www.youtube.com/watch?v=24K7WfTO8YA&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=19	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp28	
Parab, Rohan	Research and publication ethics course	GU eContent	Feb-10	https://www.youtube.com/watch?v=h0N8gIWhl9c&list=PLJHLldjZOUD9grK6N9-5OUA_iXOU-PlSM&index=36	.	GU YOUTUBE Channel	https://iqac.unigoa.ac.in/criterion3/3.4.6-DDLI-Audio-Visual-Center.mp29	