



**A WEBINAR**  
**ON**  
**“CLIMATE CHANGE AND AGRICULTURE”**

*Resource Person*

**Dr. Debabrata Panda**

**Assistant Professor**

**Department of Biodiversity and Conservation of Natural Resources**

**Central University of Odisha, Koraput**

**On**

**26<sup>th</sup> September 2020**

**DEPARTMENT OF BOTANY**

**PATTAMUNDAI COLLEGE**

**PATTAMUNDAI**

**KENDRAPARA**

**754215**

## REPORT

A webinar was organized by Department of Botany, Pattamundai College, Pattamundai on dated 26.09.2020 on the topic "**Climate change and Agriculture**". Dr. Debabrata Panda, Assistant Professor, Department of Biodiversity and Conservation of Natural Resources, Central University of Odisha, Koraput, graced the webinar as resource person.

The webinar was started at 10.30 am with the welcome address by our esteemed Principal Prof. Adhikari Laxminarayan Dash which was followed by guest introduction by Dr. Anjali Kumari Dash, Head of the Department of Botany. She also explained the aim and objectives of the webinar and the aim of the topic to be discussed. 80 participants were participated in this webinar all over the state including faculties, academicians, researchers and students. The resource person gave a keynote address on the topic with a question-answer session at the end.

The webinar was ended with a vote of thanks by Mrs. Suchismita Biswal, Lecturer in Botany at 12.30 pm.

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Ref No. : 904.....

Date: 24.9.2020.....

To

Dr. Debabrata Panda  
Asst. Professor  
Dept. of Biodiversity and conservation of natural resources  
Central University of Odisha, Koraput

*Sub – Request to act as Resource Person in the webinar to be conducted on the topic 'Climate change and Agriculture'.*

Sir,

I am pleased to request you to kindly act as resource person in the webinar on topic "**Climate change and Agriculture**" to be organized by the department of Botany of this college at 10.30 am on 26 sep 2020.

Your kind consent in this regard is highly solicited.

Your's Faithfully

  
Principal

Pattamundai College

**Dr. Debabrata Panda**  
Assistant Professor



**Department of Biodiversity  
& Conservation Natural Resources**  
Central University of Odisha  
Landiguda - 764020, Koraput  
Ph. : 06852- 2748094 / 92.

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To  
The Principal  
Pattamundai College, Pattamundai

I am glad to receive your invitation and happy to give consent to act as Resource Person in the Webinar in the topic "Climate Change and Agriculture" to be organised at the Department of Botany on 26th September 2020.

Thanking you

With regards

(Dr. Debabrata Panda)

**Dr. Debabrata Panda (Ph. D)**  
**Assistant Professor of Biodiversity & Conservation of Natural Resources**  
**Central University of Odisha**

Dr. Debabrata Panda was born on 26<sup>th</sup> May 1980. Presently He is working as Assistant Professor in Biodiversity and Conservation of Natural Resources at Central University of Orissa from 21<sup>st</sup> May, 2012. Prior to joining he has served as Scientist-B at Rubber Research Institute of India. He did his MSc & MPhil degree in Botany from Utkal University and PhD from Central Rice Research Institute, Cuttack in 2008. He was the **Best Botany Honours graduate** of F. M. University in the year 2000. His area of specialization is Plant Physiology, Enzymology and abiotic stress tolerance in plants. His contribution in collection, evaluation and characterization of indigenous rice and millet varieties and other native crop species of Koraput is highly commendable. He is the Principal Investigator of **Science and Technology Department, Govt of Odisha funded project** "Molecular characterisation of selected indigenous rice landraces of Jeypore tract of Odisha in relation to drought stress tolerance" He has successfully completed two projects at CRRI, Cuttack funded by ICAR & IRRI during his PhD study. He was the recipient of DBT, Govt of India Post doctoral fellowship in 2008.

Besides this he has received prestigious International Award as **Best Article Award in 2004** from IRRI, Philippines and **Young Scientist Award** from Orissa Botanical Society in 2005. During his 16 years of research experiences, he is credited to have 80 publications in International and National journals and published 05 books in various International Publishers. He has successfully guided 8 MPhil and Three PhD thesis at Central University of Orissa.



**DEPARTMENT OF BOTANY  
PATTAMUNDAI COLLEGE, PATTAMUNDAI**

Organises  
a Webinar on

**"CLIMATE CHANGE & AGRICULTURE"**

Date: 26.09.2020 Time: 10.30A.M



**RESOURCE PERSON**

**Dr. Debabrata Panda**  
Asst. Professor

Dept. of Biodiversity And Conservation  
of Natural Resources  
Central University of Odisha, Koraput



**Prof. A.L.N Dash**

**Principal**

Pattamundai College,  
Pattamundai



**Dr. Anjali Dash**  
H.O.D Botany, Convener



**Mrs. Suchismita Biswal**  
Co-convener

# CLIMATE CHANGE AND AGRICULTURE

Dr. Debabrata Panda

Associate Professor

Department of Biodiversity and Conservation of Natural Resources

Central University of Odisha, Koraput

Climate change and variability are concerns of human being. The recurrent droughts and floods threaten seriously the livelihood of billions of people who depend on land for most of their needs. The global economy is adversely being influenced very frequently due to extreme events such as droughts and floods, cold and heat waves, forest fires, landslips etc. The natural calamities like earthquakes, tsunamis and volcanic eruptions, though not related to weather disasters, may change chemical composition of the atmosphere. It will, in turn, lead to weather related disasters. The global warming is nothing but heating of surface atmosphere due to emission of greenhouse gases, thereby increasing global atmospheric temperature over a long period of time. Such changes in surface air temperature and consequent adverse impact on rainfall over a long period of time are known as climate change. However, the official definition by the United Nations Framework Convention on Climate Change (UNFCCC) is that climate change is the change that can be attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.

## **Weather and climate:**

Weather is the set of meteorological conditions such as wind, rain, snow, sunshine, temperature, etc. at a particular time and place. By contrast, the term climate describes the overall long-term characteristics of the weather experienced at a place. The ecosystems, agriculture, livelihoods and settlements of a region are very dependent on its climate. The impact of climate change is already visible and in medium term. The farmers are suffering because of erratic monsoons, unseasonal showers, volatile prices, which sometimes dip below

support prices. Increased temperature leads to loss of moisture from the soil and soil organic matter which will affect soil fertility and decrease yields. Lower yields because of high temperature and low rainfall due to climate change will add to farmers' distress. There will be increased risk of pests and diseases due to change in the pattern of host and pathogen interaction. For every two-degree rise in temperature, the agriculture GDP of India will reduce by five percent. Agriculture income may fall by 25% because climate change will hit the crop yields. Poor agricultural performance can lead to inflation, farmer distress and unrest, and larger political and social disaffection, all of which can hold back the economy. It will force farmers to either adapt to challenges of climate change or face the risk of getting poorer. It could turn India into a major importer of oilseeds, pulses and even milk. Though there is possibility of decrease in yields of certain crops in traditional sown areas due to climate change but it may increase elsewhere due to change in weather pattern. Climate change may also help improve yields of soybean, chickpea, groundnut, coconut and potato.

According to a recent study, India's grain production is vulnerable to climate change, primarily because of the decline in yield of rice crop during extreme weather conditions. Researchers from Columbia University in the US studied the effects of climate on five major crops in India: finger millet, maize, pearl millet, sorghum, and rice. These five grains are essential for meeting India's nutritional needs. The study, however, found that the yields from grains such as millet, sorghum, and maize are more resilient to extreme weather. On the other hand, yields from rice experiences larger declines during extreme weather conditions. By relying more and more on rice, India's food supply is potentially vulnerable to the effects of varying climate. The study shows that diversifying the crops that a country grows can be an effective way to adapt its food-production systems to the growing influence of climate change. It also offers benefits like improving nutrition, saving water, reducing energy demand and greenhouse gas emissions from agriculture.

## **Impact of climate change on agriculture**

Agriculture is a major source of GHGs which contribute to the greenhouse effect and climate change. However, the changing climate is having far reaching impacts on agricultural production, which are likely to challenge food security in the future. Climate change is likely to contribute substantially to food insecurity in the future, by increasing food prices, and reducing food production. Food may become more expensive as climate change mitigation efforts increase energy prices. These rising prices forced growing numbers of local people into poverty, providing a sobering demonstration of how the influence of climate change can result in food insecurity.

Crop production is projected to decrease in many areas during the 21st century because of climatic changes. Heat waves (periods of extreme high temperature) are likely to become more frequent in the future and represent a major challenge for agriculture. Together with other aspects of climate change such as increased drought incidence, they may exacerbate existing issues around food security. In coastal areas, rising sea levels may result in complete loss of agricultural land. Warmer climates may also lead to more problems from pests and diseases, and shifts in the geographical distribution of certain pests.

### **Steps taken by the government so far:**

National Mission for Sustainable Agriculture(NMSA) to make agriculture productive, sustainable and remunerative and climate resilient. It also developed capacity of farmers and stakeholders in the domain of climate-change adaptation and mitigation measures. Soil health card scheme in 2015 which will carry crop-wise recommendations of nutrients and fertilisers required for the individual farms to help farmers to improve productivity through judicious use of inputs. Climate Change Knowledge Network in Indian Agriculture to establish ICT-enabled approaches for knowledge exchange on climate-change adaptation in Indian agriculture.

The project was initiated in North East to disseminate climate-smart agricultural practices. Pradhan Mantri Fasal Bima Yojana is in the direction of government saving farmers from the wrath of frequently changing climate patterns. Apart from all this, government of India started National Innovations in Climate Resilient Agriculture (NICRA) to make the farmers self reliant by use of climate resilient agricultural technologies.

Hence a 'one size fits all' approach will be detrimental to the agriculture and food security of the country. Schemes like NICRA can have a positive effect on many of the sustainable development goals as it provides solutions to twin challenges: adaptation to climate variations and sustainability of the resource base with increase in productivity, to meet future food security demands.

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**DEPARTMENT OF BOTANY**  
**PATTAMUNDAI COLLEGE**  
**PATTAMUNDAI**

Affiliated to Utkal University, Bhubaneswar, Odisha



*Certificate of Participation*

This is to certify that Mr./Ms./Mrs. DR. ANJALI KUMARI DASH of Lecturer has actively participated in the Webinar on 'CLIMATE CHANGE AND AGRICULTURE' organized by Department of Botany, Pattamundai College, Pattamundai, Kendrapara, Odisha.

Date: 26th September 2020, Certificate No-TBW018-CE000001

*Dr. A. Dash*  
26.09.2020  
**Dr. A. Dash**  
**Convenor**

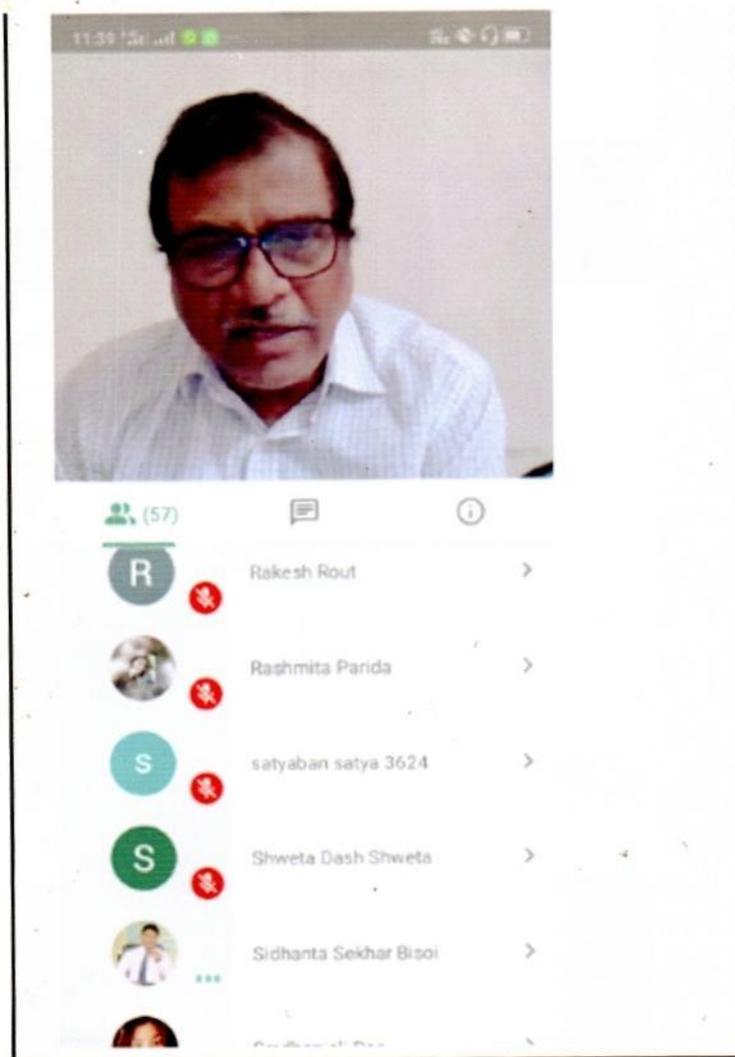
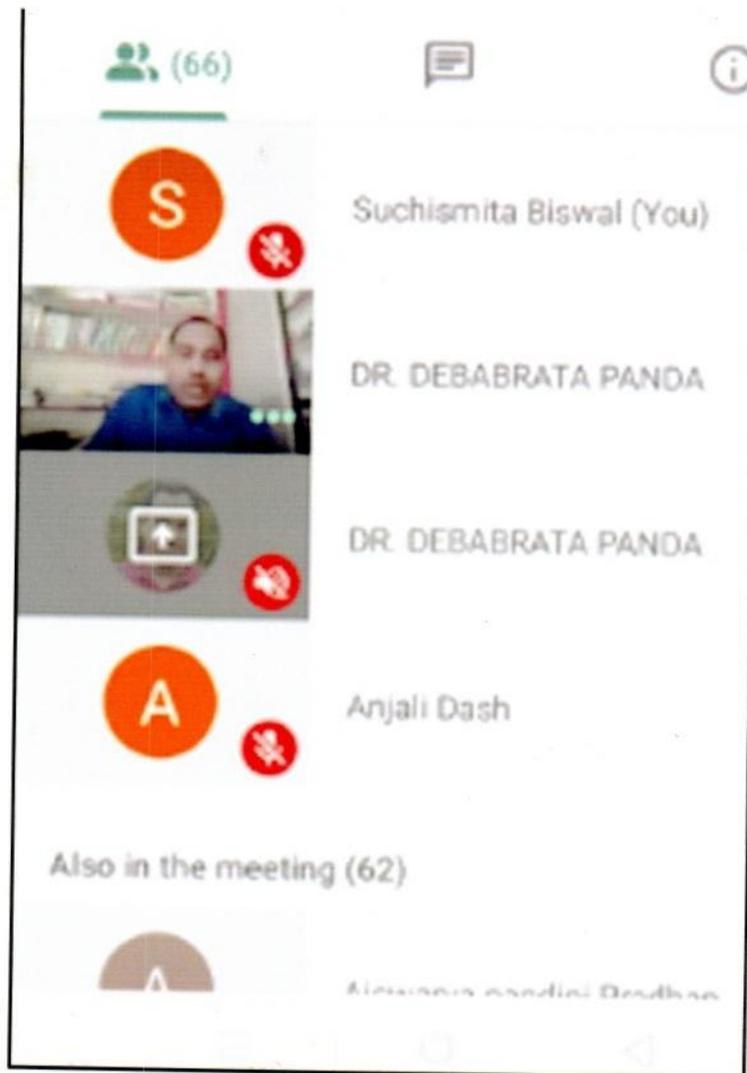
*Dr. D. Panda*  
26.09.20  
**Dr. D. Panda**  
**Resource Person**

*Prof. A.L.N Dash*

**Prof A.L.N Dash**  
**Principal**

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9/24/2020 12:36:11	neerupama_swain@yahoo.com	Neerupama Swain	Lecturer			Education	9861441834
9/24/2020 13:00:38	sradhanjalidas200@gmail.com	SRADHANJALI DAS	Student	+3 3rd yr science	Bs18 -137	Botany	6372442063
9/24/2020 13:01:31	gjena196@gmail.com	GAYATRI JENA	Student	2nd year	Bs(B)19-091	Botany	9178528985
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9/24/2020 13:06:19	nilamani.lenka00@gmail.com	DR.NILAMANI LENKA	Reader			Odia	9438329950
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9/24/2020 13:08:55	supravapanda799@gmail.com	SUPRAVA PANDA	Student	+3 3rd year	Bs18-135	Botany	9937346364
9/24/2020 13:12:35	sarojkumarbhi111@gmail.com	SAROJ KUMAR SETHI	Student	+3 3rd year	Bs-17-038	Botany	8456840218
9/24/2020 13:14:08	laxmipriya8908@gmail.com	LAXMIPRIYA PATRA	Lecturer			Odia	9437550615
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9/24/2020 13:19:07	sarojinimishra7191@gmail.com	SAROJINI MISHRA	Lecturer			zoology	9437920782
9/24/2020 13:30:17	nibeditanayak63@gmail.com	MRS NIBEDITA NAYAK	Lecturer			department of education	9668725524
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9/24/2020 13:44:16	barshamahunta938@gmail.com	MONALISA MAHUNTA	Student	+3 3rd yr	Bs18- 038	Botany	7682987584
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9/24/2020 18:47:10	sd4.subraldas@gmail.com	SUBRAT DAS	Student	B.Sc. 3rd year	BS18-002	Zoology	9348400572
9/24/2020 18:57:33	subhadarashinipanda@gmail.com	SUBHADARSHINI PANDA	Student	+32nd year	BS(B)19-121	Biological	9556841397
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9/24/2020 19:07:42	dipapratima@123gmail.com	Dipa pratima choudhury	Student	+3 3rd year	Bs-18-094	Zoology	6371796352
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9/25/2020 10:08:45	dilipbhuyan1965@gmail.com	DILLIP KUMAR BHUYA	Reader			Zoology	9437383989
9/25/2020 10:11:19	abhimanyumohanty945@gmail.com	ABHIMANYU MOHANTY	Demonstrator			Botany	9937892556
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9/25/2020 12:23:50	subhadrasubhadarsini@y	SUBHADRA SUBHADAR	Lecturer			Botany	8980887456
9/25/2020 12:30:07	ranjan775819@gmail.com	RANJAN KUMAR BEHUR	Lecturer			HISTORY	9668830365
9/25/2020 13:00:08	debashankar459@gmail.com	DEBA SHANKAR MARNI	Lecturer			BOTANY	8270385765
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9/25/2020 14:14:31	subhashreerupal5@gmail.com	Subhashree Sethi	Student	+3 3rd year	BS18-003	Zoology	9178416232
9/25/2020 14:42:39	debendra498@gmail.com	DEBENDRA KUMAR MA	Student	M.Sc. 2nd Year	19/05/DBCNR/32	Biodiversity & Conservat	7752094244
9/25/2020 15:07:41	ankitapriyadarshini4444@gmail.com	Ankita Priyadarshini	Student	+3 3rd year	BS17-141	Botany	9668508620
9/25/2020 16:32:38	mks28046@gmail.com	MANOJ KUMAR SWAIN	Student	B.Sc second year	Bs(B)19-046	Botany	8018816961
9/25/2020 18:14:08	prajnaparimita174@gmail.com	Prajna parimita Nayak	Student	+3 3rd year	BS18-025	Botany	9861330885
9/25/2020 18:31:28	sasantarout2@gmail.com	SUSANTA ROUT	Student	+3 2nd year	Bs(B)-19-102	Zoology	7735679878
9/25/2020 19:06:42	i.educational@yahoo.com	MR. PRADEEP KUMAR	Student	+3 3rd Year (5th Semeste	BS18-072	Department of Physics	6370541023
9/25/2020 19:12:16	paridasoumya70@gmail.com	SOUMYASHREE PARID	Student	+3 3rd year	BA-18-049	English	7846985556
9/25/2020 19:17:12	manojparida1967@gmail.com	CAPT.MANOJ PARIDA	Reader			Sociology	9861329944

Timestamp	Email Address	FULL NAME ( IN CAPITA	Designation	Class ( Only for Students	Roll No ( Only For Studen	Department	Mobile No.
9/25/2020 21:23:39	satyasatya2436@gmail.co	SATYA BAN ROUT	Student	+3 second yr.	BS(B)19-049	BOTANY	8114663021
9/25/2020 21:31:32	prafullabehera001@gmai	PRAFULLA KUMAR BEH	Student	PhD		Biodiversity and Conserva	9776715491
9/25/2020 21:56:48	lyotirmayeedash07@gma	JYOTIRMAYEE DASH	Reader			Botany	9437464862
9/25/2020 22:01:01	planoroy@gmail.com	PRIYANJOLI ROY	Reaserch Scholar			Biodiversity and Conserva	8250826003
9/26/2020 7:12:20	ojhamadhu55@gmail.com	MADHUSMITA OJHA	Research scholar			NIT,Durgapur	9933956788
9/26/2020 8:41:02	neelamadhabself@gmail.	Neelamadhab Sahu	Student			Biodiversity and conserva	7381630838
9/26/2020 8:48:10	divyasona2510@gmail.co	DIVYA SONA	Student	Msc 2nd year	19/05/DBCNR/15	Biodiversity and conserva	7723813544
9/26/2020 8:52:41	pdas95942@gmail.com	PRABIR DAS	Student	B. SC 2nd Year	BS(B)19-40	Botany	7681082790
9/26/2020 9:21:30	sidhantasekhar91@gmail	SIDHANTA SEKHAR BIS	Lecturer			Botany	8093872293
9/26/2020 9:28:38	satyabrata8186@gmail.co	SATYABRATA MUDULI	Student	+3 final year		81 Botany	8328982349
9/26/2020 9:29:19	pragyanswain04@gmail.c	Prajna paramita swain	Student	+3 3rd yr science(botany	Bs18-001	Botany department	6371223256
9/26/2020 9:49:05	subhalaxmis269@gmail.c	Subhalaxmi sahu	Student	+32nd year		30 Botany	8260764765
9/26/2020 9:57:08	paramitaalisha@gmail.co	ALISHA PARAMITA	Student	+3 2ndyr	BSB-19-054	Department of botany	8895322259
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9/26/2020 10:07:27	saikrishna45156@gmail.c	Sai Krishna Swain	Student	+32nd year		121 Botany	6370457708
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9/26/2020 10:12:41	barsharanidwibady@gma	BARSHARANI DWIBEDY	Student	+3 3rd year science		183 Botany	9556799263
9/26/2020 10:14:05	prajnyaparamitaswain611	PRAJNYA PARAMITA SV	Student	+3 2nd yr		137 Botany	9556897380
9/26/2020 10:19:56	swapnilpatnayak98@gmi	SWAPNIL PATTNAYAK	Student	(M. Sc) in biodiversity and	19 /05 /DBCNR /10	Biodiversity and conserva	8328965493
9/26/2020 10:26:20	mohantysuchismita96@g	SUCHISMITA MOHANTY	Student	+3 3rd year	036	Botany	7077389914
9/26/2020 10:28:13	biswajitsarang166666666	Biswajit sarangl	Student	+3 science		70 Botany Honers	9937289028
9/26/2020 10:33:15	prtipriyankarout3044@gn	PRITI PRIYANKA ROUT	Student	+3 3rd yr. Sc.		159 Botany	6371860691
9/26/2020 10:35:03	senapatijishu@gmail.com	B L JISHU SENAPATI	Student	+3 2nd year		46 Bot	9861108795
9/26/2020 10:37:57	subhashreesubhadarshini	SUBHASHREE SUBHAD	Student	+3 2nd yr science		30 Botany	7751829969
9/26/2020 10:38:38	priyanka2000mail@gmail	PRIYANKA PRIYADARSI	Student	+3 2ndyr (science)		20 Botany	7735954343
9/26/2020 10:39:03	pbeherapriya254@gmail.i	Priyabehera	Student	+3 2nd year science	BS(B)19-013	Botany	9354131293
9/26/2020 10:40:16	sujata99.maharana@gme	SUJATA MAHARANA	Student	+3 3rd yr in Bs.c		182 Botany	7873227948
9/26/2020 10:41:31	jenabiswojit518@gamail.c	BISWOJIT JENA	Student	+3 3rd year science		31 BOTANY	7077791198
9/26/2020 10:48:16	bisoisrijeeta@gmail.com	SRJEETA BISOI	Student	+3 science 3rd year		86 Botany	6372039454
9/26/2020 10:50:43	sahoomrita308@gmail.c	Amrita sahu	Student	+3 3rd year		141 Botany	6370660286
9/26/2020 10:51:33	jjnasa.barik@gmail.com	DR. JIJNASA BARIK	Research fellow			MSSRF, JEYPORE, ODI	7978130487
9/26/2020 11:13:13	laxmipriyapanda359@gm	LAXMIPRIYA PANDA	Student	+3 2nd yr		80 Botany	9861608384
9/26/2020 11:24:46	sabaramiyanranjan@gmail	AMIYA RANJAN SABAR	Student	PG 2nd Year	19/05/DBCNR/18	Biodiversity and Conserva	9556206319
9/26/2020 12:18:46	Subhashreecgoudhry@gr	SUBHASHREE CHOUDH	Student	+3 3rd yr (sci)		173 Botany	8337927727



ପଟ୍ଟାମୁଣ୍ଡାଲ କଲେଜ ଉଭିଦ

ବିଜ୍ଞାନ ବିଭାଗ ଷ୍ଟେଡିନାର

ପଟ୍ଟାମୁଣ୍ଡାଲ, ୨୯।୯ (ନି.ପ୍ର):

ପଟ୍ଟାମୁଣ୍ଡାଲ କଲେଜ ଉଭିଦ ବିଜ୍ଞାନ

ବିଭାଗ ପକ୍ଷରୁ ଜଳବାୟୁ

ପରିବର୍ତ୍ତନ ଓ କୃଷି ଶାସ୍ତ୍ର

ଷ୍ଟେଡିନାର ଅନୁଷ୍ଠିତ

ହୋଇଯାଇଛି । ଏଥିରେ

କୋରାପୁଟ କେନ୍ଦ୍ରୀୟ ବିଦ୍ୟା

ବିଦ୍ୟାଳୟର ସହକାରୀ

ପ୍ରଫେସର ଡଃ. ଦେବଦ୍ରତ

ପଣ୍ଡା କୃଷି ଉପରେ ଜଳବାୟୁ

ପରିବର୍ତ୍ତନର ପ୍ରଭାବ

ସଂପର୍କରେ ସର୍ବିଶେଷ

ଆଲୋଚନା କରିଥିଲେ ।

କଲେଜ ଅଧ୍ୟକ୍ଷ ପ୍ରଫେସର

ଅଧିକାରୀ ଲକ୍ଷ୍ମୀନାରାୟଣ

ଦାଶ ସାଗତ ଭାଷଣ

ଦେଇଥିଲେ । ପଟ୍ଟାମୁଣ୍ଡାଲ

କଲେଜ ଉଭିଦ ବିଜ୍ଞାନ ବିଭାଗ

ମୁଖ୍ୟ ଡଃ. ଅଞ୍ଜଳି ଦାଶ ଅତିଥି

ପରିଚୟ ପ୍ରଦାନ କରି କାର୍ଯ୍ୟକ୍ରମ

ସଂପର୍କରେ ସୂଚନା ଦେଇଥିଲେ ।

ଶିକ୍ଷା ଅଧ୍ୟାପିକା ନିରୁପମା ସାଲ୍

କାର୍ଯ୍ୟକ୍ରମ ପରିଚାଳନା କରିଥିବାବେଳେ

ଉଭିଦ ବିଜ୍ଞାନ ବିଭାଗ ଅଧ୍ୟାପିକା ଶୁଚିସ୍ମିତା

ବିଦ୍ୟାଳୟ ଧନ୍ୟବାଦ ଦେଇଥିଲେ ।