

"Dissemination of Education through Knowledge, Science and Culture".  
--Shikshanmaharshi Dr. Bapuji Salunkhe

**Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's**  
**Padmabhushan Dr. Vasantraodada Patil**

**Mahavidyalaya, Tasgaon**

Tal. Tasgaon. Dist. Sangli-416 312 (Maharashtra)

(Affiliated to Shivaji University, Kolhapur)

**DEPARTMENT OF**  
**COMPUTER-SCIENCE**

(2019-20)

**A CERTIFICATE COURSE IN**  
**CYBER SECURITY**



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--Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's  
Padmabhushan Dr.Vasatraodada Patil

Mahavidyalaya, Tasgaon

Tal. Tasgaon. Dist. Sangli-416 312 (Maharashtra)

(Affiliated to Shivaji University, Kolhapur)

**Title of the Certificate Course**

**" CYBER SECURITY"**

Organizer:Department Of Computer Science&Appication  
and  
Internal Quality Assurance cell (IQAC) PDVP College,  
Tasgaon

Total No Of student participated :93

Total No of faculty conducted:02

Kumbhar V.T.  
Course Co-ordinator,  
Career Oriented Course,  
8 August, 2019

To,  
The Principal,  
P D V P College,  
Tasgaon- 416 312.


Sub: - Regarding Permission to commencement of (COC) Certificate course.....

Respected Sir,

With reference to above subject, our college is going to start a certificate course entitled " **Cyber Security** " for B.SC. PART-I,II&III (Computer students) in this current academic year. So, I request you to kindly give me permission to commencement above said course.  
Please consider the same and oblige.

Thanking you

  
MOD  
Head,  
Department of Computer Science  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, TASGAON, Dist. Sangli

  
Prin. Dr. Milind S. Hujare  
Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon (Sangli).

"Dissemination of Education for Knowledge, Science and Culture" - Shikshanmaharashi Dr. Bapuji Salunkhe  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's  
Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon  
DEPARTMENT OF COMPUTER SCIENCE

The meeting of C.O.C. for preparation of syllabus of a certificate course in  
CYBER SECURITY was held on Monday 01/08/2019. The following members of the  
committee were present for the preparation of syllabus.

Sr. No.	Name	Designation	College Name	Sign
1	Mr. Kumbhar V.T.	Chairman	P.D.V.P. College, Tasgaon	
2	Mrs. Kumbhar N.V.	Member	P.D.V.P. College, Tasgaon	
3	Mr. Santinath Patil	Member	K.W.C. College, Tasgaon	
4	Mr. Toshif Mulla.	Member	Adarsh College, Vita	
5	Mr. Sandeep Patil.	Member	A.C.S. College, Palus	
6	Mr. Wagh A.A.	Member	P.D.V.P. College, Tasgaon	

The syllabus for said course has been prepared and the copy of the same  
is enclosed herewith for your kind information and further action. Thanking you.

(Mrs. N.V. Kumbhar)  
Course coordinator

Yours faithfully,  
  
(Mr. V.T. Kumbhar)



“ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार” – शिक्षणमहर्षी डॉ. बापूजी साबुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA**

**TASGAON**, Dist. Sangli, Pin- 416 312 ☎ - STD : 02346-250665, 250575 FAX : 250575

● **Affiliated to Shivaji University, Kolhapur** ●

E-mail : san.pdvpm.tas@gmail.com Website : www.pdvpmtasgaon.edu.in

Established Year : June 1962 P. B. No. : 14 Jr. College No. : J22-10-001 Sr. College Code No. :  $\frac{SIACH}{X}$  Jr.: C-8



NAAC Reaccredited 'B' (276)

ISO Certified : 9001:2015

**Shikshanmaharshi  
Dr. Bapuji Salunkhe**  
B.A., B.T., D.Lit.  
FOUNDER

**Hon. Chandrakant (Dada) Patil**  
PRESIDENT  
B.Com.  
Ex- Minister of Revenue, Public Works  
Govt. of Maharashtra

**Prin. Abhaykumar Salunkhe**  
M.A.  
CHAIRMAN

**Prin. Mrs. Shubhangi Gawade**  
M.Sc. B.Ed.  
SECRETARY

**Dr. Milind S. Hujare**  
M.Sc., Ph.D.  
PRINCIPAL

Ref.No. : PDVPMT /

Date :

10-08-2019

To,  
**Mr.V.T. Kumbhar,**  
Assistant Professor,  
Department of Computer Science,  
P. D. V. P. College, Tasgaon

**Subject: - Regarding Meeting of BOS for Syllabus Preparation.....**

Respected Sir/Madam,

With reference to the above mentioned subject, you are appointed as Member of Board of Studies (BOS) of Certificate Course entitled “**Cyber Security**” to be conducted by The Department of Computer Science in our college during the academic year 2019-20.

The meeting of BOS is conveyed on **10<sup>th</sup> August 2019** for the preparation of syllabus of Certificate course entitled “**Cyber Security**”. So, you are kindly requested to attend the meeting at 11:00 a.m. in IQAC Office of the college.

Thanking you,

*Alka*

**IQAC Director**

*Milind S. Hujare*  
**Prin. Dr. Milind S. Hujare**  
Principal  
Padmabhushan Dr. Vasantraodada Patil  
Mahavidyalaya, Tasgaon (Sangli).



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Dr. Milind S. Hujare  
PRINCIPAL  
M.Sc., Ph.D.

Ref.No. : PDVPMT /

Date : 10-08-2019

To,  
Mrs. N.V .Kumbhar,  
Assistant Professor,  
Department of Computer Science,  
P. D. V. P. College, Tasgaon

**Subject: - Regarding Meeting of BOS for Syllabus Preparation.....**

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Prin. Dr. Milind S. Hujare  
Principal  
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Dr. Milind S. Hujare  
PRINCIPAL  
M.Sc., Ph.D.

Ref.No. : PDVPMT /

Date : 10/08/2019

To,  
Mr. Shantinath Patil,  
Assistant Professor,  
Department of Computer Science,  
K.W.C.College, sangli

**Subject: - Regarding Meeting of BOS for Syllabus Preparation.....**

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*Alka*

**IQAC Director**

*Dr. Milind S. Hujare*  
Prin. Dr. Milind S. Hujare  
Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon (Sangli).



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**Shikshanmaharshi  
Dr. Bapuji Salunkhe**  
B.A., B.T., D.Lit.  
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PRESIDENT B.Com.  
Ex- Minister of Revenue, Public Works  
Govt. of Maharashtra

**Prin. Abhaykumar Salunkhe**  
M.A.  
CHAIRMAN

**Prin. Mrs. Shubhangi Gawade**  
M.Sc. B.Ed.  
SECRETARY

**Dr. Milind S. Hujare**  
M.Sc., Ph.D.  
PRINCIPAL

Ref.No. : PDVPMT /

Date :

10/08/2019

To,  
Mr. Toshif Mulla  
Assistant Professor, shoam@  
Department of Computer Science,  
Adarsh College, Vita

**Subject: - Regarding Meeting of BOS for Syllabus Preparation.....**

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**IQAC Director**

*Prin. Dr. Milind S. Hujare*  
**Prin. Dr. Milind S. Hujare**  
Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon (Sangli).





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NAAC Reaccredited 'B' (2.76)

ISO Certified : 9001:2015

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Dr. Bapuji Salunkhe**  
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M.Sc. B.Ed.  
SECRETARY

**Dr. Milind S. Hujare**  
M.Sc., Ph.D.  
PRINCIPAL

Ref.No. : PDVPMT /

Date : 10/08/2019

To,  
Mr. Sandeep Patil,  
Assistant Professor,  
Department of Computer Science,  
A.C.S. College, Palus

**Subject: - Regarding Meeting of BOS for Syllabus Preparation.....**

Respected Sir/Madam,

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*Prin. Dr. Milind S. Hujare*  
**Prin. Dr. Milind S. Hujare**  
Principal  
Padmabhushan Dr. Vasanttraodada Patil  
Mahavidyalaya, Tasgaon (Sangli).



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Dr. Milind S. Hujare  
PRINCIPAL  
M.Sc., Ph.D.

Ref.No. : PDVPMT /

Date : 10/08/2019

To,  
Mr. Wagh A.A.  
Assistant Professor,  
Department of Computer Science,  
P. D. V. P. College, Tasgaon

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Thanking you,

*Alka*

**IQAC Director**

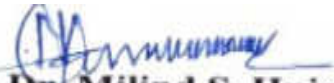
*Dr. Milind S. Hujare*  
Prin. Dr. Milind S. Hujare  
Principal  
Padmabhushan Dr. Vasantaoada Patil  
Mahavidyalaya, Tasgaon (Sangli).

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**Padmabhushan Dr.vasatraodada Patil Mahavidyalaya, Tasgaon**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**A Certificate Course in Cyber Security**  
**Time Table**  
**Academic year 2019-20**

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Time	Monday	Thursday	Wednesday	Thursday	Friday	Saturday
8 to 9 am	Theory	Theory	Theory	Theory	Theory	Theory
9 to 10 am	Practical	Practical	Practical	Practical	Practical	Practical

  
**HOD**  
**Head,**  
Department of Computer Science  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's  
Padmabhushan Dr. Vasatraodada Patil Mahavidyalaya, Tasgaon (Sandli)

  
**Prin. Dr. Milind S. Hujare**  
**Principal**  
Padmabhushan Dr. Vasatraodada Patil  
Mahavidyalaya, Tasgaon (Sandli)

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**DEPARTMENT OF COMPUTER SCIENCE**  
**A Certificate Course in Cyber Security**  
**Academic year 2019-20**

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## Notice

8 August 2018

All the student of B.Sc Part -I,II and III (Computer Student) are hereby information that ,our college is going to start a certification Course entitled „Cyber Security “ for this current academic year.All the students should take admissions as earlier.



HOD  
Head,

Department of Computer Science  
Padmabhushan Dr. Vasatraodada Patil  
Mahavidyalaya, TASGAON, Dist. Sangli



Co-ordinator

“Dissemination of Education for Knowledge, Science and Culture”

-Shikshanmaharashi Dr. Bapuji Salunkhe

Shri Swami VivekanandShikshanSanstha, Kolhapur’s

**PadmabhushanDr.vasatraodadaPatilMahavidyalaya, Tasgaon**

**Department of Computer Science**

**Paper No.1**

**CYBER SECURITY(Theory)**

**Marks:50**

## **Course Syllabus**

**UNIT- I: Introduction to Cybercrime:** Introduction, Cybercrime, and Information Security, Who are Cybercriminals, Classifications of Cybercrimes, And Cybercrime: The legal Perspectives and Indian Perspective, Cybercrime and the Indian ITA 2000, A Global Perspective on Cybercrimes.

**UNIT – II: Cyber Offenses:** How Criminals Plan Them: Introduction, How Criminals plan the Attacks, Social Engineering, Cyber stalking, Cyber cafe and Cybercrimes, Botnets: The Fuel for Cybercrime, Attack Vector, Cloud Computing.

**UNIT – III: Cybercrime:** Mobile and Wireless Devices: Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication service Security, Attacks on Mobile/Cell Phones, Mobile Devices: Security Implications for Organizations, Organizational Measures for Handling Mobile, Organizational Security Policies an Measures in Mobile Computing Era, Laptops.

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**Department of Computer Science**

**Paper No.2**

**Evaluation System**  
**Nature Of Question Paper**

Question1	Short Question (10 Question)	10
Question2	Descriptive type Question(4 out of 6)	10
Question3	Descriptive type Question(2 out of 4)	20
Question4	Short note on(5 out of 6)	10
Total		50

**TEXT BOOK:**

- Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, Nina Godbole and Sunil Belapure, Wiley INDIA.

**REFERENCE BOOK:**

- Cyber Security Essentials, James Graham, Richard Howard and Ryan Otson, CRC Press.
- Introduction to Cyber Security , Chwan-Hwa(john) Wu,J.David Irwin.CRC Press T&F Group

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**Department of Computer Science**

**QUESTION Paper No.1**  
**Cyber Security (Theory Paper)**

**Marks:50**

-----

**Q.1) Short Question**

**Marks:-10**

1)What is cyber crime? 2)What is cloud computing?

**Q.2) Descriptive type Question**

**Marks:-10**

1) How Criminals plan the Attacks?  
2)Explain Credit card Frauds in Mobile.

**Q.3) Descriptive type Question(2 out of 3)**

**Marks:-20**

1)What is Indian ITA 2000 for cyber crime.  
2)What is cyber security?  
3)What is cyber cafe?

**Q.4) Short note on(2out of 6)**

**Marks:-10**

1) Proliferation of Mobile  
2) Attack Vector  
3) Trends in Mobility  
4)Information Security  
5)A Global Perspective on Cybercrimes.  
6) Registry Settings for Mobile Devices

sample answer paper

Question Paper NO: 1  
Cyber Security

Page No.  
Date

Q. 1 Short question

(a) What is cyber crime ?

→ Cybercrime is criminal activity that either targets or uses a computer, a computer network or a networked device.

Cybercrime is committed by cybercriminals or hackers who want to make money. Cybercrime is carried out by individuals or organization.

(b) What is cloud computing ?

→ Cloud computing is the on demand delivery of IT resources over the internet with pay-as-you-go pricing. Instead of buying, owning & maintaining physical data centres & servers.

can you access technology services, such as computing power, storage & databases.

on an as-needed basis from a cloud provides

Industry are using the cloud for a wide variety of cases, such as data backup, disaster recovery, email, virtual desktops, software development etc.



Q 2 Descriptive type Question.

(1) How criminals plan the Attacks ?

→ Cyber criminals use various tools & techniques to identify the vulnerabilities of their target victims. The target can either be an individual or an organization.

Most cyber-attacks aim at stealing valuable information or breaching system. criminals plan active & passive attacks.

Below are the three phases involved in planning a cyber-attack.

(1) Reconnaissance =

This is the information gathering stage & is usually considered as passive attacks.

(2) scanning & scutinization =

The scanning & scutinization the collected data for validation & accurate identification of existing vulnerabilities.

(3) launching the attack =

It entails gaining & maintaining access to the system.

(2) Explain credit card frauds in mobile.

→ Credit card fraud, by definition, is the fraudulent use of a credit card done so through the theft of the cardholder's personal details.

Credit card fraud can take place when cards are misplaced or stolen, mails are diverted by means of criminals, employees of a commercial enterprise steal some consumer information.

Techniques of credit card frauds :-

(1) Traditional Techniques :

• paper-based fraud =

paper-based fraud is whereby a criminal makes use of stolen or faux files such as utility payments & financial institution statements that can construct up beneficial personally identifiable information.

• Application fraud =

- (i) ID Theft = where a person pretends to be anybody else
- (ii) Financial fraud = where a person offers false data about his or her monetary reputation to gather credit.

(2) Modern Techniques :-

Skimming to commit fraud is kind of crime in which dishonest employees make unlawful copies of



1



2



3



4



5



6

sample answer paper







# sample certificate

					
<p><i>'Dissemination of Education through Knowledge, Science and Culture' - Shikshanamburshi Dr. Bapuji Solunke</i> <i>Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's</i></p> <p><b>PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA,</b> Tasgaon, Dist.: Sangli.</p> <p>Organized By</p> <p>DEPARTMENT OF COMPUTER SCIENCE <b>CERTIFICATE COURSE IN</b> <b>CYBER SECURITY</b></p> <p style="text-align: center;"><b>CERTIFICATE</b></p> <p>This is to certify that Mr./Miss/Mrs.----- of Arts/Commerce/Science I/II/III has competition <u>cyber security</u> course.</p> <table><tr><td><b>Mrs. Kumbhar N.V.</b> Coordinator</td><td><b>Mr. Kumbhar Y.J.</b> Organizing Secretary</td><td><b>Dr. Milind S. Hujare</b> Principal</td></tr></table>			<b>Mrs. Kumbhar N.V.</b> Coordinator	<b>Mr. Kumbhar Y.J.</b> Organizing Secretary	<b>Dr. Milind S. Hujare</b> Principal
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*Patil*

Report submitted by  
( Prof.S.V.Patil)